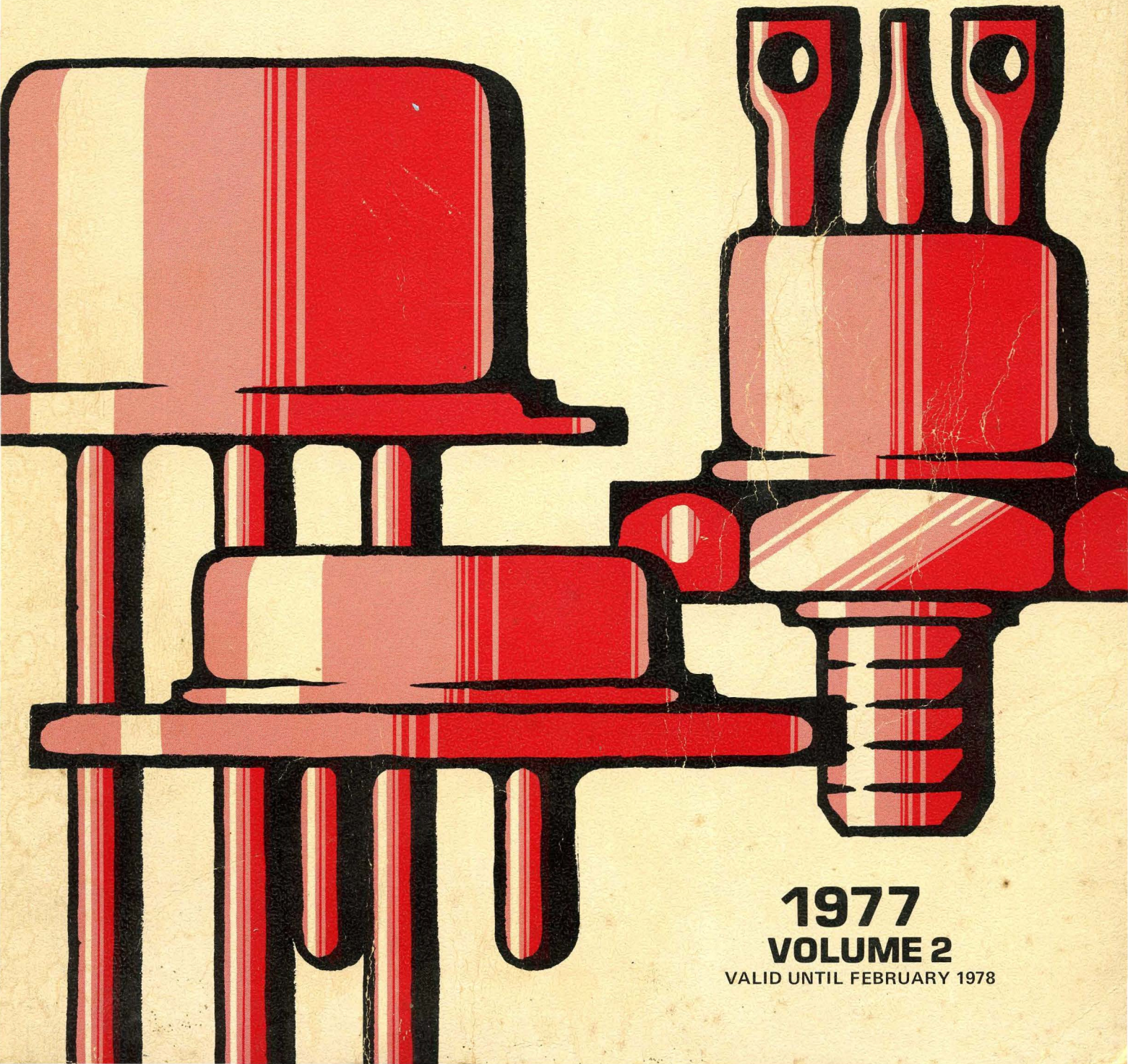
D.A.T.A. BOOK® ELECTRONICS INFORMATION SERIES

TRANSISTORS



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EDITORIAL POLICY AND PROCEDURES

Purpose

This D.A.T.A.BOOK is designed to report comprehensively on what is presently being produced throughout the world in the field of Transistor devices. While a book such as this can not provide 100% of the information you might need, its primary aims are those of facilitating the selection of types suitable to your technical requirements, and of directing you to the sources of their manufacture.

Technical Data Acquisition

D.A.T.A. acquires and processes the information presented in this D.A.T.A.BOOK with the cooperation of the participating manufacturers who supply us with their latest technical information. Manufacturers are not charged for the listing of their products.

JEDEC Outlines

The electrical, mechanical and environmental characteristics tabulated for the standard 2N and 3N type numbers are derived directly from the JEDEC registration releases. The particular manufacturer or manufacturers for whom such types are registered are so indicated by the use of a symbol next to their manufacturer codes in the Type No. Cross-Index. In general, the JEDEC-designated types produced by the various manufacturers, whether registered or not, do conform with the registered specifications; however, there may be exceptions, and it is recommended that the individual manufacturers be consulted.

Military Type Numbers

The electrical, mechanical and environmental information tabulated for the military types in the technical sections is derived directly from the applicable military specifications and standards. The source information, showing the particular manufacturers qualified for each type, is derived from the QPL (Qualified Parts List) associated with the governing specification, or from the manufacturers Qualification Test Letters.

Substitute Types And Compatibility

This D.A.T.A.BOOK can not truly claim to be an interchangeability chart; however, because of the sequencing arrangement of selected characteristics in the technical sections, types with the same or similar characteristics are grouped together. For purposes of replacement, this means of thorough, convenient technical comparison should prove superior to, and safer than, a mere listing of possible substitute type numbers.

Price And Availability

Because of the rapidly-changing and complex nature of this field, current price and delivery information should be obtained direct from the manufacturers. The list of manufacturers and the Local Offices Section in back of the book will assist you in this.

Manufacturers' Specifications

This book includes currently-manufactured devices with their major characteristics, drawings and manufacturers. Every effort is made to ensure the accuracy of the entries herein; however, the publisher can not be held responsible nor guarantee against the possibility of error or omission. Only the manufacturers or their authorized representatives can provide you with complete technical details and current prices.

USE OF POWERS-OF-TEN MULTIPLIERS AND SYMBOLS & CODES IN THE TECHNICAL SECTIONS

To present a maximum amount of information in a minimum amount of space, use is made in this book of the following data modifiers:

POWERS-OF-TEN MULTIPLIERS

The powers-of-ten multipliers shown below are used in numeric columns when the value being entered is many times greater or smaller than the units of measure indicated in the column heading. Usually, the latter are the so-called 'basic' units; such as V (volts), A (amperes) and s (seconds). The multipliers and an explanation of their use are given below:

MULTIPLIERS

PREFIXES & SYMBOLS Indicating Powers of Ten — Recommended by International Committee on Weights and Measures Adopted by National Bureau of Standards

Power	Prefix	Symbol	Power	Prefix	Symbol	Power	Prefix	Symbol
10^{12}	tera	T	10	deka	da	10^{-9}	nano	n
10^{9}	giga	G	10^{-1}	deci	d	10^{-12}	pico	p
10^{6}	mega	M	10^{-2}	centi	c	10^{-15}	femto	f
10^{3}	kilo	k	10^{-3}	milli	m	10^{-18}	atto	a
10^{2}	hecto	h	10^{-6}	micro	μ			

EXPLANATION

Value of Data To Be Entered	Basic Unit In Column Heading	Actual Entry
3 milliamperes	A (amperes)	3.0m
9 megaohms	Ω (ohms)	9.0M
0.5 volt	V (volts)	500m *
10 amperes	A (amperes)	10

* May also be written as 0.5, with no multiplier

SYMBOLS & CODES

Symbols — Symbols such as #, △, and $ are used in all columns, numeric or otherwise, whenever the data entries differ in some way from the entity defined in the column heading. For instance, if a given heading specifies Max. Power (in Watts) and the numeric value being entered for a given type represents the minimum power instead, the variance is denoted by the appearance of a special symbol alongside the numeric entry.

NOTE: The symbols and codes used herein are explained on the cards in back of the book.

Codes — Codes are used in some columns as means to abbreviate the data being entered. The codes may be alphabetic (A,B,C, etc.) numeric (1,2,3, etc.) or some combination of both.

HOW TYPE NUMBERS ARE SEQUENCED IN THE TYPE NO. CROSS INDEX

Sequencing of type numbers in the Type Number Cross-Index is governed by the following rules:

		EXAMPLES
Rules:	1) Type numbers are listed in numeric-alphabetic sequence; i.e., type numbers beginning with a number (decimal, fraction, or whole) precede type numbers beginning with a letter.	13A01 143 1202 A147 AN127 B2000
	2) Decimals and fractions precede whole numbers. An equivalent decimal precedes the fraction when the remainder of type number is identical.	25Z150 1/4Z150 3/4M12Z 1T3
	3) Zeros are ignored in sequencing except when the zero is the only basis for distinguishing one type number from another. In this case the type number containing the zero is listed first.	0112 112 0113 00115 AP01 AP1 AP02
	4) Number and/or letter groupings preceding hyphens or slashes are the controlling factors in sequencing. The hyphens and slashes themselves precede any identically positioned letters also having the same beginning number/letter groupings.	66-0706 66M1 70/10 70A9
	5) Military prefix (JAN) is ignored in the numeric-alphabetic sequencing of type numbers. A military type number directly follows its equivalent JEDEC type number.	2N645 JAN2N645

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2AC128	♦PHIN	339- 52
2AC128-01	BELI	339- 53
	♦PHIN	
2AC132	BELI	339- 54
	PHIC	
2AC188	BELI	339- 55
	♦PHIN	
2AC188-01	BELI	339- 56
	♦PHIN	
2ACY17	♦NTLB	339- 57
2ACY18	♦NTLB	339- 58
2ACY19	♦NTLB	339- 59
2AD139	♦PHIN	339- 60
2AD149	♦BELI	339- 61
	PHIN	
2AD162	♦PHIN	339- 62
2BD124	♦PHIN	339- 63
2BD131	♦MULB	339- 64
2BD181	♦RTCF	339- 65
2BD182	♦RTCF	339- 66
2BD183	♦RTCF	339- 67
2BDY20	♦PHIN	339- 68
2BDY38	♦PHIN	339- 69
2CY30	CSI	126- 26
2CY33	CSI	126- 28
2G101	STI	108- 45
2G102	STI	108- 47
2G103	STI	112- 62
		325- 69
2G104	STI	112- 63
		288- 56
2G106	STI	288- 27
		112- 37
2G108	STI	109- 82
2G109	STI	109- 83
2G110	STI	117- 5
2G138	STI	114-105
2G139	STI	114-107
2G140	STI	115- 5
2G141	STI	115- 6
2G210	STI	210- 57
2G303	STI	114- 69
2G304	STI	115- 7
2G306	STI	115- 9
2G322	STI	110-108
2G339A	STI	119- 58
2G345	STI	111- 42
2G377	STI	111- 43
2G381	STI	115-104
2G382	STI	115-105
2G383	STI	115-106
2G384	STI	115-107
2G385	STI	115-108
2G386	STI	115-109
2G387	STI	115-110
2G396	STI	111- 71
		320- 49
2G401	STI	115- 13
2G402	STI	115- 14
2G403	STI	115- 15
2G404	STI	115- 12
2G413	STI	108- 29
2G414	STI	108- 32
2G415	STI	108- 33
2G416	STI	108- 34
2G417	STI	108- 28
2G508	STI	111- 39
2G509	STI	111- 40
2G524	STI	115- 37
		325- 6
2G525	STI	323-108
		115- 44
2G526	STI	115- 48
		323- 20
2G527	STI	323- 3
		115- 54
2G603	STI	111- 83
		314- 35
2G605	STI	313- 8
		111- 84
2G1024	STI	115- 38
		325- 7
2G1025	STI	323-109
		115- 45
2G1026	STI	115- 49
		323- 80
2G1027	STI	323- 6
		115- 55
2H1254	CSI	126- 71
		293-109
2H1255	CSI	292- 99
		126- 75
2H1256	CSI	126- 72
		292- 95
2H1257	CSI	292-100
		126- 76
2H1258	CSI	126- 73
		292- 96
2H1259	CSI	292-101
		126- 77
2L08	CTR	350- 32
2L15	CTR	350- 33
2L25	CTR	350- 34
2MA509	♦IMTM	138- 45
2MC509	♦IMTM	177- 70
2N2X	TIIF	339- 70
2N34	AMR	104- 71
	CSR	DIT
	♦ETC	NJS
	SES	SPE
	STI	UPI
2N34A	CRI	104- 82
	CSR	♦ETC
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N34A		
(cont.)	NJS	
	SPE	STI
		UPI
2N35		CSR 118- 5
	DIT	♦ETC
	IDC	NJS
	SEI	SES
	SPE	SST
	STI	UPI
2N36		CRI 104- 72
	CSR	♦ETC
	NJS	SPE
	STI	UPI
2N37		CRI 104- 73
	CSR	♦ETC
	NJS	SEI
	SPE	STI
		UPI
2N38		CRI 104- 74
	♦ETC	IDI
	NJS	SEI
	SPE	STI
		UPI
2N43		CSR 110- 86
	DIT	♦ETC
	GTC	IDI
	NJS	SEI
	SPE	SST
	STI	STR
		UPI
2N43A		CEC 110- 87
	CRI	CSR
	♦ETC	GTC
	IDC	IDI
	NJS	♦SES
	SPE	STI
	STR	UPI
JAN2N43A	none	111- 22
2N44		CSR 110- 57
	♦ETC	GTC
	IDI	NJS
	SEI	SPE
	SST	STI
	STR	UPI
2N44A		CRI 112-108
	CSR	♦ETC
	GTC	IDI
	NJS	♦SES
	SPE	STI
	STR	UPI
JAN2N44A	none	111- 8
2N45		CSR 110- 58
	♦ETC	NJS
	SPE	STI
		UPI
2N45A		CRI 110- 59
	CSR	DIT
	♦ETC	IDI
	NJS	SEI
	SPE	STI
		UPI
2N59		CEN 113- 36
	CRI	CSR
	DIT	♦ETC
	IDI	NJS
	SEI	SPE
	STI	UPI
2N59A		CEN 113- 57
	CSR	DIT
	♦ETC	IDI
	NJS	SEI
	SPE	STI
		UPI
2N59B		CEN 113- 58
	CSR	DIT
	♦ETC	IDI
	NJS	SEI
	SPE	STI
		UPI
2N59C		CEN 113- 59
	CSR	DIT
	♦ETC	IDI
	NJS	SEI
	SPE	STI
		UPI
2N60		AMR 113- 37
	CEN	CRI
	CSR	DIT
	♦ETC	IDI
	NJS	SEI
	SPE	STI
		UPI
2N60A		CEN 113- 53
	CSR	DIT
	♦ETC	IDI
	NJS	SEI
	SPE	STI
		UPI
2N60B		CEN 113- 54
	CSR	DIT
	♦ETC	IDI
	NJS	SEI
	SPE	STI
		UPI
2N60C		CEN 113- 55
	CSR	DIT
	♦ETC	IDI
	NJS	SEI
	SPE	STI
		UPI
2N61		CEN 113- 38
	CSR	DIT
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N61		
(cont.)	♦ETC	
	IDI	NJS
	SEI	SPE
	STI	UPI
2N61A		CEN 113- 47
	CRI	CSR
	DIT	♦ETC
	IDI	NJS
	SPE	STI
		UPI
2N61B		CEN 113- 48
	CSR	DIT
	♦ETC	IDI
	NJS	SEI
	SPE	STI
		UPI
2N61C		CEN 113- 49
	CSR	DIT
	♦ETC	IDI
	NJS	SEI
	SPE	STI
		UPI
2N63		CRI 107- 73
	CSR	♦ETC
	NJS	SPE
	STI	UPI
2N64		CRI 107- 76
	CSR	♦ETC
	NJS	SPE
	STI	UPI
2N65		CSR 109- 45
	♦ETC	NJS
	SPE	STI
		UPI
2N68/13		GPD 203- 81
	SPE	STC
		STI
2N77		CEN 104- 53
	CRI	CSR
	DIT	♦ETC
	NJS	SEI
	SPE	STI
		UPI
2N78		AMR 118- 55
	CRI	CSR
	DIT	♦ETC
	NJS	SEI
	SPE	UPI
2N78A		CSR 118- 32
	♦ETC	NJS
	SEI	SPE
		UPI
JAN2N78A	none	118- 40
2N83		CSR 202- 95
		SPE
2N94		CSR 119- 36
	DIT	♦ETC
	NJS	SEI
	SPE	UPI
2N94A		CRI 119- 59
	CSR	♦ETC
	NJS	SEI
		SPE
2N95		AMR 212- 9
	CRI	CSR
	NJS	SPE
		UPI
2N97		CEN 118- 11
	CRI	CSR
	DIT	♦ETC
	IDI	NJS
	SEI	SPE
		UPI
2N98		CRI 118- 12
	CSR	DIT
	♦ETC	NJS
	SEI	SPE
		UPI
2N99		CRI 118- 22
	DIT	♦ETC
	NJS	SEI
	SPE	STI
		UPI
2N100		CRI 118- 2
2N101		AMR 202- 65
	CRI	SPE
2N101/13		GPD 202- 66
	STC	STI
2N102		AMR 212- 10
	CRI	SPE
2N102/13		GPD 212- 11
	SPE	STI
2N103		CRI 118- 10
	CSR	DIT
	♦ETC	NJS
	SEI	SPE
		UPI
2N104		CEN 110- 41
	CRI	CSR
	DIT	♦ETC
	NJS	SEI
	SPE	UPI
2N105		CRI 104- 55
	CSR	♦ETC
	NJS	SEI
	SPE	STI
		UPI
2N106		CRI 107- 77
	CSR	♦ETC
	NJS	SEI
	SPE	STI
		UPI
2N107		CRI 104- 87
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N107		
(cont.)	CSR	
	♦ETC	NJS
	SEI	♦SES
	SPE	SST
	STI	UPI
2N108	CRI	104- 75
	CSR	DIT
	♦ETC	NJS
	SPE	STI
		UPI
2N109	CEN	113- 1
	CRI	CSR
	DIT	♦ETC
	NJS	SEI
	SES	SPE
	STI	UPI
2N111	CRI	109- 69
	CSR	DIT
	♦ETC	NJS
	SEI	SPE
	STI	UPI
2N111A	CSR	109- 70
	♦ETC	NJS
	SEI	SPE
		UPI
2N112	AMR	109- 71
	CRI	CSR
	DIT	♦ETC
	NJS	SEI
	SPE	UPI
2N112A	CSR	109- 72
	♦ETC	NJS
	SEI	SPE
		UPI
2N113	CRI	109- 73
	CSR	DIT
	♦ETC	NJS
	SEI	SPE
		UPI
2N114	CRI	109- 74
	CSR	DIT
	♦ETC	NJS
	SEI	SPE
		UPI
2N117	△♦TII	144-108
	CRI	CSR
	DIT	♦ETC
	NJS	SEI
	SPE	SPE
		STI
JAN2N117	none	144-100
2N118	△♦TII	145- 4
	CSR	DIT
	♦ETC	NJS
	SEI	♦SES
	SPE	SSI
2N118A	△♦TII	145- 15
	♦ETC	NJS
	SEI	♦SES
	SPE	SSI
2N119	△♦TII	145- 8
	CRI	CSR
	DIT	♦ETC
	NJS	SEI
	♦SES	SPE
	SSI	SST
JAN2N119	none	144-102
2N120	△♦TII	145- 13
	CRI	CSR
	DIT	♦ETC
	NJS	SEI
	♦SES	SPE
	SSI	SST
		UPI
JAN2N123	none	316- 12
		111- 44
2N124	CSR	118- 7
	DIT	♦ETC
	NJS	SEI
	SPE	UPI
2N125	CSR	118- 25
	DIT	♦ETC
	NJS	SEI
		UPI
2N126	CSR	118- 26
	♦ETC	NJS
	SPE	UPI
2N128	DIT	104- 24
	NJS	SCA
	SEI	SPE
	♦SPR	SSI
JAN2N128	SPR	104- 27
2N129	DIT	104- 38
	NJS	SEI
		SPE
2N130	CEN	107- 37
	CRI	CSR
	♦ETC	IDI
	NJS	SPE
		UPI

TYPE No.	MFRS	Pg&Line
2N130A	CSR	108- 55
	♦ETC	NJS
	SPE	UPI
2N131	CEN	107- 38
	CSR	♦ETC
	IDI	NJS
	SPE	UPI
2N131A	CSR	108- 56
	♦ETC	NJS
	SPE	UPI
2N132	CEN	107- 40
	CSR	♦ETC
	IDI	NJS
	SPE	UPI
2N132A	CSR	107- 82
	♦ETC	NJS
	SPE	UPI
2N133	CEN	107- 39
	CSR	♦ETC
	IDI	NJS
	SPE	UPI
2N133A	CSR	108- 57
	♦ETC	NJS
	SPE	UPI
2N135	AMR	107-108
	CSR	♦ETC
	NJS	SPE
		UPI
2N136	CSR	108- 6
	♦ETC	NJS
	SPE	UPI
2N137	CSR	108- 11
	♦ETC	NJS
	SPE	UPI
2N138	♦ETC	109- 85
	NJS	SPE
		UPI
2N139	CSR	104- 59
	♦ETC	NJS
	SPE	UPI
2N140	AMR	106-102
	CEN	♦ETC
	NJS	SPE
2N141	AMR	202- 67
2N141/13	GPD	203- 85
	SPE	STC
		STI
2N142/13	AMR	212- 1
	GPD	SPE
		STI
2N143/13	GPD	203- 86
	STC	STI
2N144	SPE	212- 12
2N144/13	GPD	212- 13
	SPE	STI
2N145	CSR	118- 33
	♦ETC	NJS
	SPE	UPI
2N146	♦ETC	118- 34
	NJS	SPE
2N147	♦ETC	118- 35
	NJS	SPE
2N148	SPE	118- 36
	STI	
2N155	CEC	203- 87
	CRI	
	CSR	♦ETC
	♦GPD	GTC
	IDI	LTE
	NJS	♦SES
	SPE	SST
		STC
2N156	♦GPD	203- 88
	LTE	♦SES
	SPE	SSI
		♦STC
2N157	CEN	203- 89
	LTE	SPE
2N157A	CEN	203- 90
	SPE	
2N158	♦GPD	203- 91
	LTE	♦SES
	SPE	SSI
	♦STC	STI
		UPI
JAN2N158	GPD	203- 82
	STC	
2N158A	CEC	203- 92
	♦GPD	LTE
	♦SES	SPE
	SSI	♦STC
2N160	CRI	144-109
	CSR	♦ETC
	NJS	SPE
	SSI	UPI
2N160A	♦ETC	144-110
	NJS	SPE
		SSI
2N161	♦ETC	145- 5
	NJS	SPE
		SSI
2N161A	♦ETC	145- 6
	NJS	SPE
		SSI
2N162	♦ETC	145- 16
	NJS	SPE
		UPI
2N162A	CSR	145- 17
	♦ETC	NJS
	SPE	UPI
2N163	AMR	145- 9
	CSR	♦ETC
	NJS	SPE
		UPI

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N296		
(cont.)	IDC	
	LTE	
	NJS	
	♦SES	
	SPE	
	SST	
	STI	
	UPI	
2N297	CEN	204 - 77
	CSR	♦ETC
	GPD	IDC
	LTE	NJS
	SES	SPE
	SST	STI
	UPI	
2N297A	CEC	204 - 78
	CEN	CRI
	CSR	♦ETC
	♦GPD	GTC
	IDC	IDI
	LTE	NJS
	♦SES	SPE
	SST	♦STC
	STI	TSI
	UPI	
JAN2N297A	GPD	205 - 34
	STC	
2N299	SPE	104 - 21
	STI	STR
2N301	CEN	207 - 6
	CSR	DIT
	♦ETC	♦GPD
	GTC	IDI
	LTE	MOTA
	NJS	♦SES
	SLD	SPE
	SST	♦STC
	STR	UPI
		UTS
2N301A	CEC	207 - 7
	CEN	CRI
	CSR	♦ETC
	♦GPD	GTC
	IDI	LTE
	MOTA	NJS
	♦SES	SLD
	SPE	SST
	♦STC	STR
	UPI	UTS
2N302	CRI	111 - 63
	CSR	♦ETC
	NJS	SPE
		UPI
2N303	CSR	112 - 3
	♦ETC	NJS
	SPE	UPI
2N306	CSR	118 - 8
	♦ETC	NJS
	SEI	SPE
		UPI
2N307	CEN	203 - 1
	CSR	♦ETC
	GPD	GTC
	IDI	LTE
	NJS	♦SES
	SPE	SST
	STC	UPI
		UTS
2N307A	AMR	205 - 35
	CEN	CRI
	CSR	♦ETC
	♦GPD	GTC
	IDI	LTE
	NJS	SEI
	♦SES	SPE
	SST	STC
	UPI	UTS
2N308	CSR	104 - 34
	♦ETC	NJS
	SPE	UPI
2N309	CSR	104 - 35
	♦ETC	NJS
	SPE	UPI
2N310	CSR	104 - 36
	ETC	NJS
	SPE	UPI
2N311	CEN	106 - 13
	CRI	CSR
	♦ETC	NJS
	SPE	STI
		UPI
2N312	CEN	118 - 58
	CRI	CSI
	CSR	♦ETC
	NJS	SEI
	SPE	SST
	STI	UPI
2N315	CEN	107-110
	CRI	CSR
	♦ETC	IDI
	NJS	SPE
	STI	UPI
2N315A	CEN	322 - 49
	CSR	♦ETC
	GTC	IDI
	NJS	SEI
	SLD	SPE
	SST	STI
	TII	UPI
2N315B	CEN	109 - 90
	SPE	STI
2N316	CEN	321 - 72
	CRI	CSR
	♦ETC	GTC
	IDI	NJS
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N316		
(cont.)	SPE	
	STI	UPI
2N316A	CEN	109 - 91
	CSR	♦ETC
	GTC	IDI
	NJS	SPE
	STI	UPI
2N317	CEN	319 - 21
	CSR	♦ETC
	♦GDC	GTC
	IDI	NJS
	SPE	STI
		UPI
2N317A	CEN	109 - 92
	CSR	♦ETC
	GTC	IDI
	NJS	SLD
	SPE	SST
	STI	TII
		UPI
2N319	△♦GESY	115 - 39
	CEN	CSR
	♦ETC	IDI
	LTE	NJS
	♦SES	SPE
	STI	UPI
2N320	△♦GESY	115 - 46
	CEN	CSR
	♦ETC	IDI
	LTE	NJS
	♦SES	SPE
	STI	UPI
2N321	△♦GESY	115 - 50
	CEN	CSR
	♦ETC	IDI
	LTE	NJS
	♦SES	SPE
	STI	UPI
2N322	△♦GESY	114 - 6
	CEN	CRI
	CSR	♦ETC
	IDI	LTE
	NJS	♦SES
	SPE	STI
		UPI
2N323	△♦GESY	114 - 42
	CEN	CRI
	CSR	♦ETC
	IDI	LTE
	NJS	♦SES
	SPE	STI
		UPI
2N324	△♦GESY	114 - 55
	CEN	CRI
	CSR	♦ETC
	IDI	LTE
	NJS	♦SES
	SPE	STI
		UPI
2N326	CSR	212 - 16
	GPD	NJS
	SPE	STI
		STR
JAN2N326	none	212 - 14
2N327	AMR	130 - 31
	SPE	STI
2N327A	△♦RTN	133 - 76
	CEN	CRI
	CSI	CSR
	DIT	ESE
	♦ETC	IDI
	NASB	NJS
	SCA	SDE
	SEI	♦SES
	SLD	SPE
	SSI	SST
	STI	STR
	TADI	♦TCY
		UPI
2N327B	△♦TCY	134 - 37
	CEN	CSR
	ESE	IDI
	NASB	♦RTN
	SCA	SDE
	♦SES	SLD
	SPE	SSI
	SST	STI
	STR	TADI
		UPI
2N328	IDI	130 - 32
	SPE	STI
2N328A	△♦RTN	133 - 77
	CEC	CRI
	CSI	CSR
	DIT	ESE
	♦ETC	GTC
	IDI	NASB
	NJS	SCA
	SDE	SEI
	♦SES	SLD
	SPE	SSI
	SST	STI
	STR	TADI
	♦TCY	TSI
		UPI
JAN2N328A	RTN	133-106
		TCY
2N328B	△♦TCY	134 - 40
	CEN	CSR
	ESE	IDI
	NASB	♦RTN
	SCA	SDE
	♦SES	SLD
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N328B		
(cont.)	SPE	
	SSI	SST
	STI	STR
	TADI	TSI
2N329	IDI	130 - 33
	SPE	STI
2N329A	△♦RTN	133 - 78
	CEC	CEN
	CRI	CSR
	DIT	ESE
	♦ETC	GTC
	IDI	NASB
	NJS	SCA
	SDE	SEI
	♦SES	SLD
	SPE	SSI
	SST	STI
	STR	TADI
	♦TCY	TSI
		UPI
JAN2N329A	RTN	133-107
		TCY
2N329B	△♦TCY	134 - 47
	CEN	CSR
	ESE	IDI
	NASB	♦RTN
	SCA	SDE
	♦SES	SLD
	SPE	SSI
	SST	STI
	STR	TADI
		TSI
2N330A	CRI	133 - 79
	CSR	IDI
	SCA	♦SES
	SLD	SPE
	SSI	SST
	STR	♦TCY
2N331	CEN	117 - 3
	CRI	CSR
	ETC	GTC
	IDC	IDI
	LTE	NJS
	♦SES	SPE
	STR	UPI
JAN2N331	none	113 - 87
2N332	CRI	145 - 1
	CSI	CSR
	♦ETC	IDI
	NJS	SCA
	♦SES	SLD
	SPE	SSI
	SST	STI
	STR	♦TEC
		UPI
2N332A	CSR	171-104
	♦ETC	NJS
	♦SES	SLD
	SPE	SSI
	SST	STI
	STR	TEC
		UPI
2N333	△♦TII	145 - 7
	CEC	CSI
	CSR	DIT
	ESE	♦ETC
	IDI	NJS
	SCA	SES
	SLD	SPE
	SSI	SST
	STI	STR
	♦TEC	UPI
JAN2N333	TEC	144-104
		TII
2N333A	CRI	171-105
	CSR	ESE
	♦ETC	NJS
	SES	SLD
	SPE	SSI
	SST	STI
	STR	TEC
		UPI
JAN2N333A	TEC	171 - 95
2N334	△♦TII	145 - 18
	CRI	CSR
	ESE	♦ETC
	IDI	NJS
	SCA	SES
	SLD	SPE
	SSI	SST
	STI	STR
	♦TEC	UPI
2N334A	ESE	171-106
	♦ETC	NJS
	SES	SLD
	SPE	SSI
	SST	STI
	STR	TEC
2N335	△♦TII	145 - 11
	CRI	CSI
	CSR	ESE
	♦ETC	IDI
	NJS	SCA
	SES	SLD
	SPE	SSI
	SST	STI
	STR	TADI
		TCY
JAN2N328A	RTN	133-106
		TCY
2N328B	△♦TCY	134 - 40
	CEN	CSR
	ESE	IDI
	NASB	♦RTN
	SCA	SDE
	♦SES	SLD
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N335A		
(cont.)	NJS	
	SES	SLD
	SPE	SSI
	SST	STI
	STR	TADI
	TEC	UPI
JAN2N335A	TEC	171 - 96
2N335B	CSR	171-108
	ESE	♦ETC
	NJS	SES
	SPE	SSI
	STI	STR
	TADI	UPI
2N336	△♦TII	145 - 14
	CEC	CRI
	CSI	CSR
	ESE	♦ETC
	IDI	NJS
	SCA	SEI
	SES	SLD
	SPE	SSI
	SST	STI
	STR	TADI
	♦TEC	UPI
JAN2N336	TEC	144-106
	TII	
2N336A	CSI	171-109
	CSR	ESE
	♦ETC	IDC
	NJS	SES
	SLD	SPE
	SSI	SST
	STI	STR
	TADI	TEC
		UPI
JAN2N336A	TEC	171 - 97
2N337	△♦TII	144 - 17
	AMR	CRI
	CSR	ESE
	♦ETC	IDI
	NJS	PHIN
	SCA	SES
	SLD	SPE
	SSI	SST
	STI	STR
	♦TEC	UPI
JAN2N337	TEC	313 - 19
	TII	144 - 16
2N337A	CRI	172 - 2
	CSI	CSR
	ESE	♦ETC
	IDI	NJS
	SES	SLD
	SPE	SSI
	SST	STI
	STR	TEC
		UPI
2N338	△♦TII	144 - 23
	CEC	CSR
	ESE	♦ETC
	GTC	IDI
	NJS	PHIN
	SCA	SES
	SLD	SPE
	SSI	SST
	STI	STR
	♦TEC	UPI
JAN2N338	TEC	313 - 21
	TII	144 - 18
2N338A	CRI	172 - 12
	CSR	
	ESE	♦ETC
	IDI	NJS
	SCA	SES
	SLD	SPE
	SSI	SST
	STI	STR
	TEC	UPI
2N339	△♦TII	187 - 6
	CSR	ESE
	♦ETC	NJS
	SES	SPE
	SSI	STI
	STR	UPI
2N340	△♦TII	187 - 7
	CRI	CSR
	♦ETC	NJS
	♦SES	SPE
	SSI	STI
	STR	UPI
2N340A	CSR	153 - 49
	♦ETC	NJS
	♦SES	SPE
	SSI	STI
	STR	UPI
2N341	△♦TII	187 - 8
	CRI	CSR
	♦ETC	NJS
	♦SES	SPE
	SSI	STI
	STR	UPI
JAN2N341	TEC	181 - 78
2N341A	CSR	153 - 50
	♦ETC	NJS
	♦SES	SPE
	SSI	STI
	STR	UPI

TYPE No.	MFRS	Pg&Line
2N342	△♦TII	187 - 9
	CRI	CSR
	♦ETC	NJS
	♦SES	SPE
	SSI	STR
		UPI
JAN2N342	TEC	187 - 15
2N342A	♦ETC	187 - 10
	NJS	♦SES
	SPE	SSI
	STI	STR
JAN2N342A	TEC	187 - 16
2N342B	ETC	181 - 70
	SPE	SSI
	STI	STR
2N343	△♦TII	187 - 11
	CSR	♦ETC
	NJS	SES
	SPE	SSI
	STR	UPI
JAN2N343	TEC	187 - 17
2N343A	CEC	187 - 12
	CSR	ETC
	NJS	♦SES
	SPE	SSI
	STI	STR
		UPI
2N343B	CSR	181 - 71
	ETC	NJS
	♦SES	SSI
	STR	UPI
2N344	CSR	104 - 16
	NJS	SPE
	♦SPR	SSI
2N345	CSR	104 - 17
	NJS	SPE
	♦SPR	SSI
2N346	CRI	104 - 20
	CSR	NJS
	SCA	SES
	SPE	♦SPR
		SSI
2N350	CEN	207 - 8
	CSR	DIT
	♦ETC	♦GPD
	LTE	NJS
	SEI	♦SES
	SPE	STC
		UPI
2N350A	CEN	207 - 90
	CSR	♦ETC
	♦GPD	GTC
	IDI	LTE
	NJS	SEI
	♦SES	SPE
	SST	STC
		UPI
2N351	CEN	207 - 9
	CSR	DIT
	♦ETC	♦GPD
	GTC	IDI
	LTE	NJS
	SEI	♦SES
	SPE	STC
		UPI
2N351A	CEN	207 - 91
	CSR	♦ETC
	♦GPD	GTC
	IDI	LTE
	NJS	SEI
	SPE	SPE
	SST	STC
	STI	UPI
2N356	CEN	324 - 35
	CSI	CSR
	♦ETC	GTC
	IDI	NJS
	SEI	SPE
	SST	STI
		UPI
2N356A	CEC	119 - 19
	CEN	CSI
	CSR	♦ETC
	GTC	IDI
	NJS	SPE
	SST	STI
2N357	CEN	322 - 97
	CSI	CSR
	♦ETC	GTC
	IDI	NJS
	SEI	SPE
	SST	STI
		UPI
2N356A	CEC	119 - 19
	CEN	CSI
	CSR	♦ETC
	GTC	IDI
	NJS	SPE
	SST	STI
2N357	CEN	322 - 97
	CSI	CSR
	♦ETC	GTC
	IDI	NJS
	SPE	SST
	STI	UPI
2N357A	CEN	119 - 20
	CSR	♦ETC
	GTC	IDI
	NJS	SPE
	SST	STI
		UPI
2N358	AMR	320-108
	CEN	CSI
	CSR	♦ETC
	GTC	IDI
	NJS	SEI
	SPE	SST
	STI	UPI
2N358A	CEN	119 - 21
	CRI	CSI
	CSR	♦ETC
	GTC	IDI
	NJS	SPE
	SST	STI
JAN2N358A	TII	320 - 54
		119 - 22

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N442		
(cont.)	CRI	207 - 12
CSR	DIT	
♦GPD	LTE	
NJS	SEI	
SES	SLD	
SPE	SST	
♦STC	UTS	
2N443	CEN	207 - 13
CRI	CSR	328 - 37
DIT	♦GPD	
IDC	LTE	
NJS	SEI	
SES	SLD	
SPE	SST	
♦STC	UTS	
2N444	CEN	118 - 75
CRI	CSR	
♦ETC	IDI	
NJS	SES	
SPE	STI	
2N444A	CEN	119 - 31
CRI	CSR	
♦ETC	IDI	
NJS	SES	
SPE	STI	
2N445	CEN	118 - 77
CSR	♦ETC	
IDI	NJS	
SES	SPE	
	STI	
2N445A	CEN	119 - 39
CRI	CSR	
♦ETC	IDI	
NJS	SEI	
SES	SPE	
2N446	CEN	118 - 90
CSR	♦ETC	
IDI	NJS	
SPE	STI	
2N446A	CEN	119 - 62
CRI	CSI	
CSR	♦ETC	
IDI	NJS	
SPE	STI	
2N447	CEN	118 - 96
CSR	♦ETC	
IDI	NJS	
SPE	STI	
2N447A	CEN	119 - 86
CRI	CSR	
♦ETC	IDI	
NJS	SPE	
	STI	
2N447B	ETC	313 - 71
NJS	SPE	
2N448	CRI	118 - 44
CSR	ETC	
NJS	STI	
2N449	CRI	118 - 49
CSR	♦ETC	
NJS	SPE	
2N450	CRI	111 - 92
CSR	ETC	
NJS	SPE	
	STI	
2N451	♦SES	267 - 93
SPE	STI	
2N456	AMR	206-110
CEN	CRI	329 - 52
CSR	♦ETC	
♦GPD	LTE	
NJS	SEI	
♦SES	SPE	
SST	STC	
STI	STR	
	UPI	
2N456A	CEN	205 - 37
CRI	CSR	
♦ETC	♦GPD	
GTC	IDI	
LTE	NJS	
SEI	♦SES	
SLD	SPE	
SST	♦STC	
STI	STR	
2N456B	CEN	210 - 59
CSR	♦ETC	
♦GPD	GTC	
IDI	LTE	
NJS	SEI	
♦SES	SLD	
SPE	SST	
♦STC	STR	
JAN2N456B	GPD	210 - 60
	STC	328 - 69
2N457	AMR	329 - 53
CRI	CSR	207 - 1
♦ETC	♦GPD	
IDC	LTE	
NJS	♦SES	
SPE	SST	
STC	STR	
2N457A	CSR	205 - 38
♦ETC	♦GPD	
GTC	IDC	
IDI	LTE	
NJS	SEI	
♦SES	SLD	
SPE	SST	
♦STC	STI	
	STR	
2N457B	CSR	210 - 61
cont.next col		

TYPE No.	MFRS	Pg&Line
2N457B		
(cont.)	♦ETC	
♦GPD	GTC	
IDC	IDI	
LTE	NJS	
SEI	♦SES	
SLD	SPE	
SST	♦STC	
	STR	
JAN2N457B	GPD	210 - 62
	STC	328 - 70
2N458	CRI	329 - 54
CSR	♦ETC	207 - 2
♦GPD	LTE	
NJS	♦SES	
SPE	SST	
STC	STR	
2N458A	CSR	205 - 39
♦ETC	♦GPD	
GTC	IDI	
LTE	NJS	
♦SES	SLD	
SPE	♦STC	
	STR	
2N458B	CEN	210 - 63
CSR	♦ETC	
♦GPD	GTC	
IDI	LTE	
NJS	♦SES	
SLD	SPE	
SST	♦STC	
	STR	
JAN2N458B	GPD	210 - 64
	STC	328 - 71
2N459	CEN	329 - 42
CRI	CSR	206 - 55
♦ETC	GPD	
GTC	IDI	
LTE	♦MOTA	
NJS	SES	
SPE	SST	
	UTS	
2N459A	CEN	207 - 93
CSR	♦ETC	
GPD	GTC	
IDI	LTE	
♦MOTA	NJS	
SES	SPE	
	SST	
2N460	CEN	114 - 29
CSR	♦ETC	
IDI	LTE	
NJS	♦SES	
SPE	STI	
2N461	CEN	114 - 30
CSR	♦ETC	
IDI	LTE	
NJS	♦SES	
SPE	STI	
JAN2N461	none	115 - 97
2N463	IDC	204 - 86
	LTE	325 - 70
JAN2N463	GPD	205 - 40
2N464	CEN	110 - 45
CSR	DIT	
♦ETC	GTC	
IDI	LTE	
NJS	♦SES	
SPE	STI	
JAN2N464	none	110 - 33
2N465	CEN	110 - 53
CRI	CSR	
DIT	♦ETC	
GTC	IDI	
LTE	NJS	
♦SES	SPE	
STI	STR	
JAN2N465	none	110 - 35
2N466	CEN	110 - 63
CRI	CSR	
DIT	♦ETC	
GTC	IDI	
LTE	NJS	
♦SES	SPE	
STI	STR	
	UPI	
JAN2N466	none	110 - 36
2N467	CEN	110 - 82
CRI	CSR	
♦ETC	GTC	
IDI	LTE	
NJS	♦SES	
SPE	STI	
STR	UPI	
JAN2N467	none	110 - 46
2N470	Δ♦TEC	148 - 38
CSR	♦ETC	
IDI	NJS	
♦SES	SPE	
SSI	SST	
	STI	
2N471	Δ♦TEC	148 - 39
CRI	CSR	
♦ETC	IDI	
NJS	♦SES	
SPE	SSI	
SST	STI	
2N471A	Δ♦TEC	148 - 40
CSR	♦ETC	
IDI	NJS	
SCA	♦SES	
SPE	SSI	
	STI	

TYPE No.	MFRS	Pg&Line
2N472	Δ♦TEC	148 - 41
CSR	♦ETC	
IDI	NJS	
♦SES	SPE	
SSI	SST	
	STI	
2N472A	Δ♦TEC	148 - 42
CRI	CSR	
♦ETC	IDI	
NJS	♦SES	
SPE	SSI	
	STI	
2N473	Δ♦TEC	148 - 43
CRI	CSR	
DIT	♦ETC	
IDI	NJS	
SCA	♦SES	
SPE	SSI	
SST	STI	
2N474	Δ♦TEC	148 - 44
CRI	CSR	
DIT	♦ETC	
IDI	NJS	
SCA	♦SES	
SPE	SSI	
SST	STI	
2N474A	Δ♦TEC	148 - 45
CSR	ETC	
IDI	NJS	
♦SES	SPE	
SSI	STI	
2N475	Δ♦TEC	148 - 46
CSR	DIT	
♦ETC	IDI	
NJS	SCA	
♦SES	SPE	
SSI	STI	
2N475A	Δ♦TEC	148 - 47
CRI	CSR	
♦ETC	IDI	
NJS	♦SES	
SPE	SSI	
	STI	
2N476	Δ♦TEC	148 - 53
CRI	CSI	
CSR	DIT	
ETC	IDI	
NJS	SEI	
♦SES	SPE	
SSI	STI	
2N476A	CSI	148 - 55
	SPE	
2N477	Δ♦TEC	148 - 54
CSI	CSR	
DIT	ETC	
IDI	NJS	
♦SES	SPE	
SSI	STI	
2N478	Δ♦TEC	148 - 56
CRI	CSI	
CSR	♦ETC	
IDI	NJS	
SCA	♦SES	
SPE	SSI	
SST	STI	
	TII	
2N479	Δ♦TEC	148 - 57
CRI	CSI	
CSR	♦ETC	
IDI	NJS	
SEI	♦SES	
SLD	SPE	
SSI	SST	
STI	TII	
2N479A	Δ♦TEC	148 - 58
CRI	CSI	
CSR	♦ETC	
IDI	SCA	
♦SES	SLD	
SPE	SSI	
SST	STI	
2N480	Δ♦TEC	148 - 59
CRI	CSR	
♦ETC	GTC	
IDI	NJS	
SCA	♦SES	
SLD	SPE	
SSI	SST	
STI	TII	
2N480A	Δ♦TEC	148 - 60
CRI	CSI	
CSR	♦ETC	
IDI	NJS	
♦SES	SLD	
SPE	SSI	
SST	STI	
2N481	CEN	111 - 10
CSR	♦ETC	
IDI	NJS	
♦SES	SPE	
STI	STR	
	UPI	
2N482	CEN	111 - 23
CRI	CSR	
♦ETC	IDI	
NJS	SPE	
STI	STR	
	UPI	
2N483	CEN	111 - 59
CRI	CSR	
♦ETC	IDI	
NJS	SPE	
STI	STR	
	UPI	

TYPE No.	MFRS	Pg&Line
2N484	CEN	111 - 93
CSR	♦ETC	
IDI	NJS	
SPE	STI	
STR	UPI	
2N485	CEN	111 - 69
CRI	CSR	
♦ETC	IDI	
NJS	SPE	
STI	STR	
2N486	CEN	111-105
CRI	CSR	
♦ETC	IDI	
NJS	SPE	
STI	STR	
	UPI	
2N487	CRI	108 - 12
CSR	IDI	
NJS	SPE	
	STR	
2N489	Δ♦GESY	344 - 71
AMR	CEN	
CRI	CSR	
ESE	SCA	
SES	SLD	
SPE	SSI	
SST	♦TII	
TIID	UPI	
2N489A	Δ♦GESY	344 - 72
CEC	CEN	
CRI	CSR	
ESE	SCA	
SES	SLD	
SPE	SSI	
SST	♦TII	
TIID	UPI	
JAN2N489A	GESY	344 - 73
	TII	
2N489B	Δ♦GESY	344 - 74
AMR	CEN	
CSR	ESE	
SCA	SES	
SLD	SPE	
SSI	SST	
♦TII	TIID	
	UPI	
2N490	Δ♦GESY	344 - 75
AMR	CEN	
CSR	ESE	
SCA	SES	
SLD	SPE	
SSI	SST	
♦TII	TIID	
	UPI	
2N490A	Δ♦GESY	344 - 76
CEC	CEN	
CRI	CSR	
ESE	SCA	
SES	SLD	
SPE	SSI	
SST	♦TII	
TIID	UPI	
JAN2N490A	GESY	344 - 77
	TII	
2N490B	Δ♦GESY	344 - 78
CEN	CSR	
ESE	SCA	
SES	SLD	
SPE	SSI	
SST	♦TII	
TIID	UPI	
2N490C	Δ♦GESY	344 - 79
CEN	CSR	
ESE	SCA	
SES	SLD	
SPE	SSI	
SST	♦TII	
TIID	UPI	
2N491	Δ♦GESY	344 - 80
AMR	CEN	
CRI	CSR	
ESE	SCA	
SES	SLD	
SPE	SSI	
SST	TADI	
♦TII	TIID	
	UPI	
2N491A	Δ♦GESY	344 - 81
CEC	CEN	
CSR	ESE	
SCA	SES	
SLD	SPE	
SSI	SST	
♦TII	TIID	
	UPI	
JAN2N491A	GESY	344 - 82
	TII	
2N491B	Δ♦GESY	344 - 83
CEN	CSR	
ESE	SCA	
SES	SLD	
SPE	SSI	
SST	♦TII	
TIID	UPI	
2N492	Δ♦GESY	344 - 84
CEN	CRI	
CSR	ESE	
SES	SLD	
SPE	SSI	
SST	♦TII	
TIID	UPI	
2N492A	Δ♦GESY	344 - 85
CEC	CEN	
cont.next col		

TYPE No.	MFRS	Pg&Line
2N492A		
(cont.)	CSR	
ESE	SCA	
SES	SLD	
SPE	SSI	
SST	♦TII	
	UPI	
JAN2N492A	GESY	344 - 86
	TII	
2N492B	Δ♦GESY	344 - 87
CEN	ESE	
SCA	SES	
SLD	SPE	
SSI	SST	
♦TII	TIID	
	UPI	
2N492C	Δ♦GESY	344 - 88
CEN	ESE	
SCA	SES	
SLD	SPE	
	SSI	
2N493	Δ♦GESY	344 - 89
AMR	CEN	
CRI	CSR	
ESE	SCA	
SES	SLD	
SPE	SSI	
SST	♦TII	
TIID	UPI	
2N493A	Δ♦GESY	344 - 90
CEN	CSR	
ESE	SCA	
SES	SLD	
SPE	SSI	
SST	♦TII	
TIID	UPI	
JAN2N493A	GESY	344 - 91
	TII	
2N493B	Δ♦GESY	344 - 92
CEN	CSR	
ESE	SCA	
SES	SLD	
SPE	SSI	
SST	♦TII	
TIID	UPI	
2N494	Δ♦GESY	344 - 93
CEN	CRI	
CSR	ESE	
SCA	SES	
SLD	SPE	
SSI	SST	
TIID	UPI	
2N494A	Δ♦GESY	344 - 94
CEN	CSR	
ESE	SCA	
SES	SLD	
SPE	SSI	
SST	TIID	
	UPI	
JAN2N494A	GESY	344 - 95
2N494B	Δ♦GESY	344 - 96
AMR	CEC	
CEN	ESE	
SCA	SES	
SLD	SPE	
SSI	SST	
TIID	UPI	
2N494C	Δ♦GESY	344 - 97
CEC	CEN	
ESE	SCA	
SES	SLD	
SPE	SSI	
	SST	
2N495	CRI	122 - 18
CSR	IDC	
SCA	SPE	
SSI	TADI	
2N496	CRI	122 - 12
CSR	IDC	
SCA	♦SES	
SPE	SSI	
2N497	Δ♦TII	235 - 38
CEN	CRI	
CSR	♦DEF	
ETC	IDI	
NASB	NJS	
PHIN	♦RTN	
SCA	SDE	
♦SES	SLD	
SPE	SSI	
SST	STI	
TADI	♦TEC	
TIIB	TIIF	
JAN2N497	TEC	182 - 70
	TII	
2N497A	CEN	236 - 58
CSR	ETC	
IDI	KER	
NJS	SCA	
SDE	SEI	
SES	SLD	
SPE	SSI	
SST	STI	
TADI	TEC	
	TII	
2N498	Δ♦TII	235 - 39
CEC	CEN	
CSR	♦DEF	
ETC	IDI	
NASB	NJS	
PHIN	♦RTN	
SCA	SDE	
♦SES	SLD	
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TYPE No.	MFRS	Pg&Line
2N570	AMR	108 - 75
	CEN	
	CRI	
	CSR	♦ETC
	IDI	NJS
	SPE	STI
		UPI
2N571	CRI	111 - 12
	CSR	♦ETC
	NJS	SPE
		STI
2N572	CEN	108 - 76
	CRI	CSR
	♦ETC	IDI
	NJS	SPE
		STI
2N573	CEN	113 - 64
	CRI	CSR
	ETC	IDI
	NJS	SPE
2N574	CSR	211 - 81
	♦GPD	♦SES
	SPE	SSI
		SST
JAN2N574	none	211 - 82
2N574A	CRI	211 - 83
	♦GPD	♦SES
	SPE	SSI
		SST
2N575	♦GPD	211 - 84
	♦SES	SPE
	SSI	SST
JAN2N575	none	211 - 85
2N575A	♦GPD	211 - 86
	SPE	SSI
		SST
JAN2N575A	none	211 - 87
2N576	CEN	120 - 17
	CRI	CSR 324 - 7
	♦ETC	IDI
	NJS	SPE
2N576A	CEC	321 - 59
	CEN	CSR 120 - 20
	♦ETC	IDI
	NJS	SPE
2N578	CEN	108 - 80
	CRI	CSR 320-105
	♦ETC	GTC
	IDI	NJS
	SPE	STI
		UPI
2N579	CEN	108 - 83
	CRI	CSR 314 - 24
	♦ETC	GTC
	IDI	NJS
	SEI	SPE
	STI	UPI
2N580	CEN	308 - 72
	CRI	CSR 108 - 94
	♦ETC	GTC
	IDI	NJS
	SPE	STI
		UPI
2N581	CEN	106 - 99
	CRI	CSR
	♦ETC	GTC
	IDI	NJS
	SLD	SPE
	SST	STI
	TII	UPI
2N582	CEN	108 - 95
	CRI	CSR
	♦ETC	GTC
	IDI	NJS
	SES	SLD
	SPE	SST
	STI	TII
2N583	CEN	106-100
	CRI	CSR
	ETC	IDI
	NJS	SPE
2N584	CEN	108 - 96
	CRI	CSR
	♦ETC	NJS
		SPE
2N585	CEN	119 - 1
	CRI	CSR
	♦ETC	NJS
	SES	SPE
		UPI
2N586	CEN	115 - 70
	CRI	CSR
	♦ETC	NJS
		SPE
2N587	CEN	119 - 24
	CRI	CSR 323 - 91
	♦ETC	IDI
	NJS	SLD
	SPE	SST
	STI	TII
2N588	CRI	104 - 49
	CSR	♦ETC
	NJS	SCA
	SPE	♦SPR
2N588A	AMR	105 - 65
	♦SPR	STI
2N589	CEN	207 - 94
	CRI	CSR
	♦ETC	GPD
	LTE	NJS
		SPE
2N591	CEN	104 - 85
	CRI	CSR
	ETC	NJS
	SPE	SST

TYPE No.	MFRS	Pg&Line
2N592	CRI	338 - 8
	CSR	SPE
		STI
2N593	CRI	338 - 9
	CSR	SPE
		STI
2N594	CRI	338 - 10
	SEI	SLD
	SPE	SST
	STI	TII
2N595	CRI	338 - 11
	SEI	SLD
	SPE	SST
	STI	TII
2N596	CRI	338 - 12
	IDC	SEI
	SLD	SPE
	SST	TII
2N597	CEN	116 - 7
	CRI	CSR
	♦ETC	GTC
	IDI	NJS
	SPE	STI
	STR	UPI
2N598	CEC	116 - 10
	CEN	CRI 309 - 69
	CSR	♦ETC
	♦GDC	GTC
	IDI	NJS
	SPE	SST
	STI	STR
JAN2N598	none	309 - 70
		116 - 11
2N599	CEN	116 - 15
	CRI	CSR 308 - 2
	♦ETC	GTC
	IDI	NJS
	SPE	STI
		STR
JAN2N599	none	308 - 3
		116 - 16
2N600	CRI	117 - 54
	GTC	IDI 309 - 73
	SPE	SSI
JAN2N600	none	309 - 71
		117 - 53
2N601	CRI	117 - 55
	GTC	IDC 308 - 6
	IDI	SPE
		SSI
2N602	CRI	108 - 97
	CSR	IDI
		SSI
2N602A	CSR	108 - 90
		SSI
2N603	IDI	108-109
	SCA	SPE
		SSI
2N603A	CSR	108 - 91
	SPE	SSI
2N604	IDC	109 - 3
	IDI	SCA
	SPE	SSI
JAN2N604	none	108-110
		320 - 51
2N604A	CSR	108 - 92
	SPE	SSI
2N605	CEN	108 - 59
	SPE	STI
2N606	CEN	108 - 60
	SPE	STI
2N607	CEN	108 - 61
	SPE	STI
2N608	CEN	108 - 62
	SPE	STI
2N609	CEN	113 - 41
	CSR	♦ETC
	NJS	SPE
2N610	CEN	113 - 42
	CSR	♦ETC
	IDI	NJS
	SPE	UPI
2N611	CEN	113 - 43
	CSR	♦ETC
	IDI	NJS
	SPE	UPI
2N612	CEN	113 - 45
	CSR	♦ETC
	IDI	NJS
		SPE
2N613	CEN	113 - 46
	CRI	CSR
	♦ETC	IDI
	NJS	SPE
2N614	CEN	109 - 56
	CSR	♦ETC
	IDI	NJS
		SPE
2N615	CSR	109 - 57
	♦ETC	IDI
	NJS	SPE
2N616	CEN	111 - 81
	CSR	♦ETC
	IDI	NJS
	SPE	UPI
2N617	CEN	109 - 58
	CSR	♦ETC
	IDI	NJS
	SPE	UPI
2N618	CEN	206 - 56
	CRI	CSR 329 - 37
	DIT	♦ETC

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TYPE No.	MFRS	Pg&Line
2N618		
(cont.)	♦GPD	
	GTC	IDI
	LTE	NJS
	♦SES	SPE
	SST	STC
2N621	SCA	153 - 46
2N622	IDI	168 - 62
	SCA	SPE
2N623	STI	104 - 67
2N626	STI	347 - 29
2N627	CEN	207 - 95
	CRI	CSR
	♦ETC	♦GPD
	IDC	LTE
	NJS	♦SES
	SPE	♦STC
		STR
2N628	CEN	207 - 96
	CRI	CSR
	DIT	♦ETC
	♦GPD	IDC
	LTE	NJS
	SEI	♦SES
	SPE	♦STC
		STR
2N629	CEN	207 - 97
	CRI	CSR
	DIT	♦ETC
	♦GPD	IDC
	LTE	NJS
	SEI	♦SES
	SPE	♦STC
		STR
2N630	CEN	207 - 98
	CRI	CSR
	DIT	♦ETC
	♦GPD	IDC
	LTE	NJS
	SEI	♦SES
	SPE	STC
		STR
2N631	CEN	113 - 13
	CRI	CSR
	♦ETC	IDI
	NJS	SPE
	SSI	STI
		UPI
2N632	CEN	113 - 12
	CRI	CSR
	♦ETC	IDI
	NJS	SPE
	STI	UPI
2N633	CEN	113 - 11
	CRI	CSR
	♦ETC	IDI
	NJS	SPE
	STI	UPI
2N634	CEN	119 - 81
	CRI	CSR
	♦ETC	NJS
	SPE	STI
2N634A	CEN	119 - 82
	CSR	♦ETC
	NJS	SLD
	SPE	SST
	STI	TII
2N635	CEN	119 - 91
	CRI	CSR
	♦ETC	NJS
	SPE	STI
2N635A	AMR	119 - 92
	CEN	CSR
	♦ETC	NJS
	SLD	SPE
	SST	TII
2N636	CEN	119-100
	CRI	CSR
	♦ETC	NJS
		SPE
2N636A	CEN	119-101
	CSR	♦ETC
	NJS	SLD
	SPE	SST
		TII
2N637	CEN	204 - 88
	CRI	CSR 328 - 14
	♦ETC	♦GPD
	GTC	IDC
	IDI	LTE
	NJS	♦SES
	SPE	STC
2N637A	CEN	328 - 15
	CSR	♦ETC 204 - 89
	♦GPD	GTC
	IDI	LTE
	NJS	♦SES
	SPE	STC
2N637B	CEN	204 - 90
	CSR	♦ETC 328 - 16
	♦GPD	GTC
	IDI	LTE
	NJS	♦SES
	SPE	STC
2N638	CEN	328 - 17
	CRI	CSR 204 - 91
	♦ETC	♦GPD
	GTC	IDI
	LTE	NJS
	♦SES	SPE
		STC
2N638A	CEN	204 - 92
	CSR	♦ETC 328 - 18

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TYPE No.	MFRS	Pg&Line
2N638A		
(cont.)	♦GPD	
	GTC	IDI
	LTE	NJS
	♦SES	SPE
		STC
2N638B	CEN	328 - 19
	CSR	♦ETC 204 - 93
	♦GPD	GTC
	IDI	LTE
	NJS	♦SES
	SPE	STC
2N639	CEN	204 - 94
	CRI	CSR 328 - 20
	♦ETC	GPD
	GTC	IDI
	LTE	NJS
	SES	SPE
		STC
2N639A	CEN	328 - 21
	CSR	♦ETC 204 - 95
	GPD	GTC
	IDI	LTE
	NJS	SES
		SPE
2N639B	CEN	204 - 96
	CSR	♦ETC 328 - 22
	GPD	GTC
	IDI	LTE
	NJS	SES
		SPE
2N645	STI	109 - 6
		288 - 92
2N646	STI	118 - 69
2N647	CEN	118 - 70
	CSR	ETC
	NJS	SPE
2N649	CEN	118 - 71
	CSR	ETC
	NJS	SPE
2N650	CEN	113 - 94
	CRI	CSR
	♦ETC	IDI
	LTE	NJS
	SEI	♦SES
	SPE	STI
2N650A	CEC	113 - 95
	CEN	CSR
	ETC	IDI
	LTE	NJS
	♦SES	SPE
		STI
JAN2N650A	none	113 - 96
2N651	CEN	114 - 7
	CRI	CSR
	♦ETC	IDI
	LTE	NJS
	SEI	♦SES
	SPE	STI
	UPI	WAB
2N651A	CEC	114 - 8
	CEN	CRI
	CSR	ETC
	IDI	LTE
	NJS	♦SES
	SPE	STI
		WAB
JAN2N651A	none	114 - 9
2N652	Δ♦MOTA	114 - 31
	CEN	CSR
	♦ETC	IDI
	LTE	NJS
	♦SES	SPE
	SST	STI
		WAB
2N652A	AMR	114 - 32
	CEC	CEN
	CRI	CSR
	♦ETC	IDC
	IDI	LTE
	NJS	♦SES
	SPE	STI
		WAB
JAN2N652A	none	114 - 33
2N653	CEN	114 - 43
	CSR	♦ETC
	GTC	IDI
	LTE	NJS
	♦SES	SPE
	STI	UPI
2N654	CEN	114 - 56
	CRI	CSR
	♦ETC	GTC
	IDI	LTE
	NJS	♦SES
	SPE	STI
2N655	CEN	114 - 65
	CRI	CSR
	♦ETC	GTC
	IDI	LTE
	NJS	♦SES
	SPE	STI
		UPI
2N656	Δ♦TII	235 - 40
	CEN	CRI
	CSR	♦DEF
	♦ETC	GTC
	IDI	KER
	MOTA	NASB
	NJS	NTR
	PHIN	♦RTN
	SCA	SDE
	SEI	♦SES
	SGAI	SLD
	SPE	SSI
	SST	STI
	STR	TADI
	♦TEC	TIIB
	TIIF	UPI
JAN2N657	RTN	182 - 73
	TEC	TII
2N657A	AMR	236 - 61
	CEN	CRI
	CSR	♦ETC
	IDC	IDI
	KER	NJS
	SCA	SDE
	SEI	SES
	SLD	SPE
	SSI	SST
	STI	STR
	TADI	TEC
	TII	UPI
2N657S	KER	235 - 43
2N658	AMR	113 - 21
	CEN	CRI
	CSR	♦ETC
	IDI	NJS
	SLD	SPE
	SST	STI
		♦TII
2N659	CEN	113 - 23
	CRI	CSR
	♦ETC	IDI
	NJS	SLD
	SPE	SSI
	SST	STI
	♦TII	UPI
2N660	CEN	113 - 24
	CRI	CSR
	♦ETC	IDI
	NJS	♦SES
	SLD	SPE
	SST	STI
	♦TII	UPI
2N661	CEN	113 - 25
	CRI	CSR
	♦ETC	IDI
	NJS	♦SES
	SLD	SPE
	SST	STI
	♦TII	UPI
2N662	CEN	113 - 22
	CSR	♦ETC
	IDI	NJS
	♦SES	SLD
	SPE	SST
	STI	♦TII
		UPI
2N663	CEN	204 - 97
	CRI	CSR 327 - 91
	♦ETC	♦GPD
	GTC	IDI
	NJS	♦SES
	SPE	STC
2N665	CEC	204 - 98
	CEN	CRI
	CSR	DIT
	♦ETC	♦GPD
	GTC	IDI
	LTE	NJS
	♦SES	SPE
		♦STC
JAN2N665	GPD	204 - 99
	STC	
2N669	Δ♦MOTA	207 - 99
	CEN	CRI
	CSR	♦ETC
	♦GPD	GTC
	IDI	LTE
	NJS	♦SES
	SLD	SPE
	SST	STC
2N670	SPE	116 - 50

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TYPE No.	MFRS	Pg&Line
2N730		
(cont.)	TADI	
	♦TEC	TIID
		TIIF
2N731	△♦TII	172- 18
	CEN	CRI
	CSR	♦DEF
	♦ETC	GTC
	IDI	NASB
	NJS	NTR
	RTN	SCA
	SDE	♦SES
	SPE	SST
	STI	TADI
	♦TEC	TIIB
	TIID	TIIF
2N734	CRI	171- 3
	CSR	♦ETC
	IDI	NJS
	SCA	SES
	SPE	SSI
		TIIF
2N735	CEN	171- 4
	CRI	CSR
	♦ETC	IDI
	NASB	NJS
	SCA	SEI
	♦SES	SPE
	SSI	SST
		TIIF
2N735A	CSR	172- 58
	♦ETC	NJS
	♦SES	SPE
		SSI
2N736	CEN	171- 5
	♦ETC	GTC
	IDI	♦MOTA
	NASB	NJS
	SCA	♦SES
	SGAI	SPE
	SSI	SST
	TADI	TIIF
2N736A	CSR	173- 12
	♦ETC	NJS
	SPE	SSI
	TADI	TIID
		TIIF
2N736B	CSR	173- 13
	♦ETC	NJS
	♦SES	SPE
		SSI
2N738	CSR	171- 6
	♦ETC	IDI
	NJS	SCA
	SEI	SPE
	SSI	TIIF
2N739	CEN	171- 7
	CRI	CSR
	♦ETC	GTC
	IDI	NASB
	NJS	SCA
	♦SES	SPE
	SSI	TIIF
2N739A	CSR	172- 59
	♦ETC	NJS
	♦SES	SPE
		SSI
2N740	CEN	171- 8
	CRI	CSR
	♦ETC	GTC
	IDI	♦MOTA
	NASB	NJS
	SCA	♦SES
	SPE	SSI
	SST	TIIF
2N740A	CSR	173- 14
	♦ETC	IDI
	NJS	SCA
	♦SES	SPE
		SSI
2N741	IDI	109-100
	SPE	SSI
2N741A	IDI	112- 65
	SPE	SSI
		STI
2N742	♦ETC	171- 9
	IDI	NJS
	SCA	SPE
		SSI
2N742A	CSR	171- 10
	ETC	IDI
	NJS	SPE
		SSI
2N743	CEN	159- 99
	CRI	CSR 291- 35
	♦DEF	ETC
	IDI	♦ITT
	ITTB	MISI
	NASB	NJS
	NPC	NSC
	♦PHIN	♦RTCF
	RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SPE	SST
	TADI	TEC
	THCF	TIID
	TIIF	UPI
2N743A	CEN	289- 98
	CSR	♦DEF 168- 12
	IDI	NASB
	NJS	RTN
	SDE	♦SES
		SPE
2N744	AMR	159-100
	CEN	CRI 291- 36
	CSI	CSR
	♦DEF	ETC
	GTC	IDI
	♦ITT	ITTB
	MEHK	MISI
	♦MOTA	NASB
	NJS	NPC
	NSC	NTR
	♦PHIN	♦RTCF
	♦RTN	SDE
	SEI	♦SES
	SGAI	SLD
	SPE	SST
	STI	TADI
	TEC	THCF
	TIID	TIIF
		UPI
JAN2N744	FSC	291- 37
		159-101
2N744A	CEN	168- 13
	CSR	♦DEF 289- 99
	IDI	NASB
	NJS	NTR
	RTN	SDE
	♦SES	SPE
2N752	CSR	173- 85
	ETC	IDI
	NJS	SPE
		SSI
2N753	CEN	158- 96
	CRI	CSR 296-102
	♦ETC	FERB
	GTC	IDI
	♦ITT	ITTB
	MEHK	MISI
	♦MOTA	NASB
	NJS	NPC
	NSC	NTR
	♦PHIN	SCA
	SEI	SES
	SGAI	SLD
	SPE	SST
	STI	TADI
	TEC	THCF
	TIID	TIIF
		UPI
2N753/46	SCA	169- 66
2N754	CSR	156- 19
	♦ETC	IDI
	NJS	SCA
	♦SES	SPE
		SSI
2N755	CSR	156- 20
	♦ETC	IDI
	NJS	SCA
	♦SES	SPE
		SSI
2N756	CSR	172- 19
	ETC	IDI
	MEHK	NJS
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	NJS	SPE
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	NJS	♦SES
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2N759	△NSC	172- 26
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	NJS	♦SES
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	NJS	SCA
	♦SES	SPE
JAN2N759A	none	172- 61
2N759B	ETC	172- 28
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2N760	△♦NSC	172- 29
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	CSR	♦DEF
	ETC	GTC
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	MEHK	NASB
	NJS	NTR
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	SEI	♦SES
	SLD	SPE
	SST	STI
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	NSC	NTR
	RTN	SCA
	SDE	SEI
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		TSI
2N859	CEN	122- 5
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	NJS	♦SES
	SPE	SSI
	TADI	♦TCY
	TEC	TSI
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	NJS	♦SES
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		TSI
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	NJS	♦SES
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		TSI
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	NSC	NTR
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	SDE	SEI
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	RTN	SCA
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2N871	CEN	172- 63
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	NJS	NTR
	♦RTN	SCA
	SDE	♦SES
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	TEC	♦TII
	TIID	TIIF
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	NJS	NTR
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	SGAI	SPE
	STR	TADI
	TEC	♦TII
	TSI	UPI

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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	NJS ♦SES	
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	IDI NJS	
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2N1036	Δ♦RTN	124 - 29
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	ETC IDI	
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	♦TCY TSI	
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	CSR ETC	
	IDI NJS	
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	STR	
2N1046	CEN	207 - 16
	CSR ♦ETC	
	GPD GTC	
	LTE NJS	
	SES SPE	
	SSI STR	
	UPI	
JAN2N1046	none	204 - 32

TYPE No.	MFRS	Pg&Line
2N1046A	CEN	207 - 17
	CSR ESE	
	♦ETC GPD	
	GTC LTE	
	NJS SES	
	SPE SSI	
	STR UPI	
2N1046B	CEN	207 - 18
	CSR ESE	
	♦ETC GPD	
	GTC LTE	
	SES SPE	
	SSI STR	
	UPI	
2N1047	Δ♦TII	254 - 84
	CRI CSR	
	ESE ♦ETC	
	NJS ♦SES	
	♦SPC SPE	
	SSI STR	
	UPI	
2N1047A	Δ♦TII	254 - 85
	ESE ♦ETC	
	NJS ♦SEN	
	♦SES ♦SPC	
	SPE SSI	
	STR UPI	
JAN2N1047A	SEN	254 - 86
	SPC	STC
2N1047B	Δ♦TII	254 - 87
	ESE ♦ETC	
	NJS ♦SEN	
	♦SES ♦SPC	
	SPE SSI	
	UPI	
2N1048	Δ♦TII	254 - 88
	CSR ESE	
	♦ETC NJS	
	♦SES ♦SPC	
	SPE SSI	
	UPI	
2N1048A	Δ♦TII	254 - 89
	CRI CSR	
	ESE ♦ETC	
	NJS ♦SEN	
	♦SES ♦SPC	
	SPE SSI	
	UPI	
JAN2N1048A	SEN	254 - 90
	SPC	STC
2N1048B	Δ♦TII	254 - 91
	ESE ♦ETC	
	NJS ♦SEN	
	♦SES ♦SPC	
	SPE SSI	
	UPI	
2N1049	Δ♦TII	254 - 92
	CRI CSR	
	ESE ♦ETC	
	NJS ♦SES	
	♦SPC SPE	
	SSI STI	
	UPI	
2N1049A	Δ♦TII	254 - 93
	CSR ESE	
	♦ETC NJS	
	♦SEN ♦SES	
	♦SPC SPE	
	SSI STI	
	UPI	
JAN2N1049A	SEN	254 - 94
	SPC	STC
		TII
2N1049B	Δ♦TII	254 - 95
	CSR ESE	
	♦ETC NJS	
	♦SEN ♦SES	
	♦SPC SPE	
	SSI UPI	
2N1050	Δ♦TII	254 - 96
	CRI ESE	
	♦ETC NJS	
	♦SES ♦SPC	
	SPE SSI	
	STI UPI	
2N1050A	Δ♦TII	254 - 97
	CEC ESE	
	♦ETC NJS	
	♦SEN ♦SES	
	♦SPC SPE	
	SSI STI	
	UPI	
JAN2N1050A	SEN	254 - 98
	SPC	STC
		TII
2N1050B	Δ♦TII	254 - 99
	ESE ♦ETC	
	NJS ♦SEN	
	♦SES ♦SPC	
	SPE SSI	
	UPI	
2N1051	IDC	171 - 12
	SSI STI	
JAN2N1051	none	172 - 94
2N1052	Δ♦TEC	176 - 71
	CEN CRI	
	CSR GSE	
	IDI SCA	
	SLD SPE	
	SSI SST	
	STC	
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2N1159		
(cont.)	♦SES	
SLD	SPE	
SST	UPI	
2N1160	CEN	327 - 90
CRI	CSR	206 - 64
♦ETC	♦GPD	
GTC	IDI	
LTE	NJS	
♦SES	SLD	
SPE	SST	
	STR	
2N1162	CEN	208 - 19
CRI	CSR	
♦ETC	♦GPD	
LTE	NJS	
♦SES	SPE	
SST	♦STC	
	STR	
2N1162A	CEN	208 - 20
CSR	♦ETC	
♦GPD	LTE	
NJS	♦SES	
SPE	♦STC	
	STR	
2N1163	CEN	208 - 21
CRI	CSR	
♦ETC	♦GPD	
IDI	LTE	
NJS	♦SES	
SPE	♦STC	
	STR	
2N1163A	CEN	208 - 22
CSR	♦ETC	
♦GPD	LTE	
NJS	♦SES	
♦STC	STR	
2N1164	CEN	208 - 23
CSR	♦ETC	
♦GPD	IDI	
LTE	NJS	
♦SES	SPE	
SST	♦STC	
	STR	
2N1164A	CEN	208 - 24
CSR	♦ETC	
♦GPD	LTE	
NJS	SEI	
♦SES	SPE	
♦STC	STR	
2N1165	CEN	208 - 25
CRI	CSR	
♦ETC	♦GPD	
IDI	LTE	
NJS	♦SES	
SPE	♦STC	
	STR	
JAN2N1165	GPD	208 - 26
	STC	
2N1165A	CEN	208 - 27
CSR	♦ETC	
♦GPD	LTE	
NJS	♦SES	
SPE	♦STC	
	STR	
2N1166	CEN	208 - 28
CRI	CSR	
♦ETC	♦GPD	
LTE	NJS	
♦SES	SPE	
SST	♦STC	
	STR	
2N1166A	CSR	208 - 29
♦ETC	♦GPD	
LTE	NJS	
♦SES	SPE	
♦STC	STR	
2N1167	CEN	208 - 30
CSR	♦ETC	
♦GPD	LTE	
NJS	♦SES	
SPE	♦STC	
	STR	
2N1167A	CEN	208 - 31
CSR	♦ETC	
♦GPD	LTE	
NJS	♦SES	
SPE	♦STC	
	STR	
2N1168	CEN	205 - 45
CRI	CSR	
♦ETC	♦GPD	
GTC	IDI	
LTE	NJS	
♦SES	SLD	
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STC	STR	
2N1169	CRI	338 - 13
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SEI	SPE	
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2N1170	CSR	338 - 14
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IDI	NJS	
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2N1172	GPD	202 - 57
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2N1173	IDC	120 - 27
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JAN2N1173	none	315 - 55
		120 - 25
2N1174	IDC	116 - 13
		316 - 16
JAN2N1174	none	315 - 56
		115 - 71
2N1175	Δ♦GESY	114 - 86
CEN	CRI	
CSR	♦ETC	
GTC	IDC	
IDI	LTE	
NJS	♦SES	
SPE	STI	
	UPI	
2N1175A	CSR	114 - 87
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IDI	NJS	
♦SES	SPE	
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2N1176	CEN	116 - 42
CSR	♦ETC	
IDI	NJS	
	SPE	
2N1176A	CSR	116 - 43
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NJS	SPE	
2N1176B	CSR	116 - 44
♦ETC	IDI	
NJS	SPE	
2N1177	CEN	107 - 16
2N1178	CEN	107 - 17
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2N1182	GPD	208 - 32
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2N1183	CEN	202 - 71
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SPE	♦STC	
STR	UPI	
JAN2N1183	GPD	202 - 72
	STC	
2N1183A	CEN	202 - 73
♦GPD	SPE	
♦STC	STR	
JAN2N1183A	GPD	202 - 74
	STC	
2N1183B	CEN	202 - 75
♦GPD	SPE	
♦STC	STR	
JAN2N1183B	GPD	202 - 76
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2N1184	CEN	202 - 77
♦GPD	SPE	
♦STC	STR	
	UPI	
JAN2N1184	GPD	202 - 78
	STC	
2N1184A	CEN	202 - 79
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♦STC	STR	
JAN2N1184A	GPD	202 - 80
	STC	
2N1184B	CEN	202 - 81
♦GPD	SPE	
♦STC	STR	
JAN2N1184B	GPD	202 - 82
	STC	
2N1185	CEN	114 - 50
CSR	♦ETC	
GTC	IDI	
LTE	NJS	
♦SES	SPE	
	STI	
2N1186	CEN	113 - 97
CSR	GTC	
IDI	LTE	
♦SES	SPE	
STI	UPI	
2N1187	CEN	114 - 10
CSR	GTC	
IDI	LTE	
♦SES	SPE	
	STI	
2N1188	CEN	114 - 34
CSR	GTC	
IDI	LTE	
♦SES	SPE	
	STI	
2N1189	CEN	114 - 74
CSR	♦ETC	
GTC	IDI	
LTE	NJS	
♦SES	SPE	
	STI	
2N1190	CEN	114 - 89
CSR	♦ETC	
GTC	IDI	
LTE	NJS	
♦SES	SPE	
	STI	
2N1191	CEN	113 - 66
CSR	♦ETC	
♦GDC	GTC	
IDI	LTE	
NJS	♦SES	
SPE	STI	
2N1192	CEN	113 - 67
CSR	♦ETC	
GTC	IDI	
LTE	NJS	
♦SES	SPE	
	STI	
2N1193	CEN	113 - 68
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2N1193		
(cont.)	CSR	
♦ETC	GTC	
IDI	LTE	
NJS	♦SES	
SPE	STI	
2N1194	CEN	113 - 69
CSR	♦ETC	
GTC	IDI	
LTE	NJS	
♦SES	SPE	
	STI	
2N1195	CEC	115 - 63
CRI	SLD	
SPE	SST	
JAN2N1195	none	116 - 21
2N1196	IDI	130 - 43
SCA	SPE	
SSI	STI	
2N1197	IDI	130 - 44
SCA	SPE	
SSI	STI	
JAN2N1197	none	130 - 45
2N1198	CSR	118 - 56
ETC	NJS	
	SPE	
2N1199	♦ETC	145 - 51
NJS	SPE	302 - 18
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SPE	SST	
	♦STC	
2N1203	GPD	204 - 63
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SST	♦STC	
2N1204	SPE	115 - 17
	STI	296 - 29
2N1204A	CRI	295 - 86
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2N1205	CSI	145 - 34
ETC	NJS	
SPE	STI	
2N1206	ΔTEC	235 - 70
CSR	♦ETC	
NJS	♦SES	
SPE	STI	
2N1207	ΔTEC	235 - 71
CSR	♦ETC	
NJS	♦SES	
SPE	STI	
2N1208	Δ♦TEC	263 - 77
CRI	CSR	
♦ETC	GSE	
IDI	KER	
MISI	NJS	
NPC	PPC	
SDE	♦SEN	
♦SES	SLD	
♦SPC	SPE	
SST	THCF	
	UNI	
2N1209	Δ♦TEC	263 - 78
CRI	CSR	
ETC	GSE	
GTC	IDI	
KER	MISI	
NPC	PPC	
SCA	SDE	
♦SEN	♦SES	
SLD	♦SPC	
SPE	SST	
THCF	UNI	
2N1210	Δ♦TEC	260 - 104
CSR	♦ETC	
GTC	IDI	
NJS	♦SEN	
♦SES	♦SPC	
SPE	♦STC	
2N1211	Δ♦TEC	260 - 105
CSR	♦ETC	
GTC	IDI	
NJS	♦SEN	
♦SES	♦SPC	
SPE	♦STC	
2N1212	Δ♦TEC	263 - 79
CRI	CSR	
♦ETC	GSE	
IDI	KER	
NJS	PPC	
SDE	♦SEN	
♦SES	SLD	
♦SPC	SST	
	UNI	
2N1217	CSR	118 - 61
ETC	NJS	
2N1218	AMR	212 - 19
CEN	CSR	
♦GPD	IDC	
	SPE	
2N1219	CRI	124 - 78
CSR	ETC	
IDI	NASB	
NJS	RTN	
SCA	♦SES	
SLD	SSI	
SST	♦TCY	
	TSI	
2N1220	CRI	124 - 62
CSR	ETC	
NASB	NJS	
RTN	SCA	
♦SES	SLD	
SSI	SST	
cont.next col.		
2N1220		
(cont.)	STI	
♦TCY	TSI	
2N1221	CRI	124 - 79
CSR	ETC	
GTC	IDI	
NJS	RTN	
SCA	♦SES	
SLD	SSI	
SST	STI	
♦TCY	TSI	
2N1222	CSR	124 - 63
ETC	GTC	
IDI	NJS	
RTN	♦SES	
SLD	SSI	
SST	STI	
♦TCY	TSI	
2N1223	CRI	124 - 64
CSR	ETC	
GTC	IDI	
NJS	♦SES	
SLD	SSI	
SST	STI	
♦TCY	TSI	
2N1224	CEN	108 -102
CRI	GTC	
IDI	PHIC	
SPE	STI	
	WAB	
JAN2N1224	none	108 -103
2N1225	CEN	109 - 10
GTC	IDI	
SPE	STI	
	WAB	
JAN2N1225	none	109 - 2
2N1226	CEN	108 -104
GTC	IDC	
IDI	SPE	
STI	WAB	
2N1227	CEN	206 - 41
CSR	ETC	
GPD	LTE	
NJS	♦SES	
SPE	STC	
2N1228	CRI	134 - 27
CSR	♦ETC	
IDI	NJS	
♦RTN	SCA	
♦SES	SLD	
SPE	SSI	
SST	STI	
♦TCY	TSI	
2N1229	CRI	134 - 28
CSR	♦ETC	
IDI	NJS	
♦RTN	SCA	
♦SES	SLD	
SSI	SST	
STI	♦TCY	
	TSI	
2N1230	CRI	134 - 29
CSR	♦ETC	
IDI	NJS	
♦RTN	SCA	
♦SES	SLD	
SSI	SST	
STI	♦TCY	
	TSI	
2N1231	CRI	134 - 30
CSR	♦ETC	
IDI	NJS	
SCA	♦SES	
SLD	SSI	
SST	STI	
♦TCY	TSI	
2N1232	CRI	134 - 6
CSI	CSR	
♦ETC	IDI	
NJS	SCA	
SEI	♦SES	
SLD	SSI	
SST	STI	
♦TCY	TSI	
2N1233	CEC	134 - 7
CSR	♦ETC	
IDI	NJS	
SCA	♦SES	
SLD	SSI	
SST	STI	
TADI	♦TCY	
	TSI	
2N1234	AMR	133 -110
CEC	♦ETC	
NJS	SEI	
♦SES	SLD	
SPE	SST	
STI	TADI	
♦TCY	TSI	
JAN2N1234	TCY	133 -108
2N1235	CRI	263 - 80
♦SES	SSI	
	TEC	
2N1238	♦SES	215 - 9
2N1239	♦SES	215 - 10
2N1240	♦SES	215 - 11
	STI	
2N1241	♦SES	215 - 12
	STI	
2N1242	♦SES	215 - 13
	STI	
2N1243	♦SES	215 - 14
	STI	
2N1244	♦SES	215 - 15
	STI	
2N1245	CEN	203 -100
2N1246	CEN	203 -101
2N1247	Δ♦TEC	143 - 24
CSR	ETC	
NJS	♦SES	
SLD	SSI	
	SST	
2N1248	CSR	143 - 22
ETC	NJS	
SES	SLD	
SSI	SST	
TADI	♦TEC	
2N1249	ΔTEC	143 - 23
CSR	ETC	
NJS	♦SES	
	SSI	
2N1250	Δ♦TEC	263 - 81
CSR	ETC	
NJS	♦SES	
♦SPC	SSI	
	♦STC	
2N1251	CSR	119 - 30
♦ETC	NJS	
	SPE	
2N1252	AMC	177 - 58
CEN	CRI	
CSR	ETC	
GSE	GTC	
IDI	NJS	
SCA	SDE	
♦SES	SSI	
STI	♦TEC	
2N1253	AMC	177 - 90
CEN	CSR	
ETC	GSE	
GTC	IDI	
NJS	SCA	
SDE	♦SES	
SSI	STI	
	♦TEC	
2N1254	CEN	125 -110
CRI	CSR	292 - 97
IDI	NJS	
SCA	♦SES	
SLD	SSI	
SST	STI	
STR	TEC	
2N1255	CEN	292 -103
CSR	IDI	126 - 3
NJS	SCA	
♦SES	SLD	
SPE	SSI	
SST	STI	
STR	TEC	
2N1256	CEN	126 - 1
CRI	CSI	292 - 98
CSR	IDI	
NJS	SCA	
♦SES	SLD	
SSI	SST	
STI	STR	
	TEC	
2N1257	CEN	292 -104
CSR	IDI	126 - 4
NJS	SCA	
♦SES	SLD	
SSI	SST	
STI	STR	
	TEC	
2N1258	CEN	126 - 5
CSR	IDI	292 -105
NJS	SCA	
♦SES	SLD	
SSI	SST	
STI	STR	
	TEC	
2N1259	CEN	292 -102
CSR	IDC	126 - 2
IDI	NJS	
SCA	♦SES	
SLD	SSI	
SST	STI	
STR	TEC	
2N1260	CSR	263 - 41
♦SES	SSI	
	TEC	
2N1261	CSR	204 - 64
GPD	♦SES	
SST	♦STC	
2N1262	CSR	204 - 65
GPD	♦SES	
SST	♦STC	
2N1263	CSR	204 - 66
GPD	♦SES	
SPE	SST	
	♦STC	
2N1265	CEN	107 - 85
CSR	♦ETC	
GTC	IDI	
NJS	UPI	
2N1265/5	ETC	104 - 88
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2N1266	CSR	106 - 79
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2N1267	CSR	143 - 47
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2N1268	♦ETC	143 - 49
	NJS	
2N1269	♦ETC	144 - 49
	NJS	
2N1270	♦ETC	143 - 97
NJS	SPE	

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TYPE No.	MFRS	Pg&Line
2N1380		
(cont.)	♦ETC	
	GESY	GTC
	IDI	LTE
	NJS	SEI
	♦SES	SLD
	SST	STI
	STR	TIID
	UPI	UTS
		WAB
2N1381	Δ♦TII	115 - 85
	CEN	CRI
	CSR	♦ETC
	GESY	GTC
	IDI	LTE
	NJS	SEI
	♦SES	SLD
	SPE	SST
	STI	STR
	TIID	UPI
	UTS	WAB
2N1382	ΔTII	115 - 86
	CEC	CEN
	CRI	CSR
	♦ETC	IDI
	LTE	NJS
	♦SES	SPE
	STI	STR
	UPI	UTS
		WAB
2N1383	ΔTII	115 - 87
	CEN	CRI
	♦ETC	IDI
	LTE	NJS
	♦SES	STI
	STR	UPI
	UTS	WAB
2N1385	SLD	117 - 56
2N1386	CSI	155 - 81
	CSR	♦ETC 312 - 84
	IDI	NJS
2N1387	CRI	312 - 85
	CSR	♦ETC 155 - 82
	IDI	NJS
2N1388	CSR	156 - 76
	ETC	IDI
		NJS
2N1389	CRI	156 - 18
	CSR	ETC
	IDI	NJS
	SES	SPE
2N1390	CSR	156 - 10
	ETC	IDI
		NJS
2N1391	CEN	119 - 50
	CSR	♦ETC
	IDI	NJS
2N1395	CEN	108-105
	CSR	GTC
	IDI	PHIC
	SPE	UPI
		WAB
2N1396	CEN	109 - 11
	CSR	GTC
	IDI	PHIC
	SPE	UPI
		WAB
2N1397	CEN	109 - 17
	CSR	IDC
	PHIC	UPI
2N1404	ΔTII	111 - 33
	CEN	CRI
	CSR	♦ETC
	IDI	NJS
	♦SES	SLD
	SPE	SST
	STI	UPI
2N1404A	CEN	111 - 15
2N1408	CEN	109-103
	CRI	CSR
	♦ETC	IDI
	LTE	NJS
		♦SES
2N1409	CRI	176-105
	CSI	CSR
	♦ETC	GTC
	IDI	NJS
	SCA	SEI
	SSI	STR
2N1409A	CSR	185 - 50
	♦ETC	GTC
	IDI	NJS
	SCA	SSI
		STR
2N1410	CRI	176-106
	CSI	CSR
	♦ETC	GTC
	IDI	NJS
	SCA	SPE
	SSI	STR
2N1410A	♦ETC	185 - 51
	GTC	IDI 297 - 66
	NJS	SCA
	SSI	STR
2N1411	CRI	294 - 21
	CSR	IDC
	NJS	SCA
		SPR
JAN2N1411	SPR	104 - 62
2N1412	CEN	208 - 40
	CRI	CSR
	♦GPD	LTE
	NJS	SEI
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TYPE No.	MFRS	Pg&Line
2N1412		
(cont.)	SES	
	SLD	SPE
	SST	♦STC
	STR	UTS
JAN2N1412	GPD	207 - 19
	STC	
2N1412A	CSR	207 - 20
	GPD	STC
		STR
JAN2N1412A	GPD	207 - 21
	STC	
2N1413	Δ♦GESY	114 - 73
	CEN	CRI
	CSR	♦ETC
	GTC	IDI
	LTE	NJS
	♦SES	SPE
	SST	UPI
2N1414	Δ♦GESY	114 - 77
	CEN	CRI
	CSR	♦ETC
	GTC	IDC
	IDI	LTE
	NJS	♦SES
	SPE	SST
		UPI
2N1415	Δ♦GESY	114 - 82
	CEN	CSR
	♦ETC	GTC
	IDI	LTE
	NJS	♦SES
	SPE	SST
		UPI
2N1416	CSR	115-103
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	PHIN	RTN
	SCA	SDE
	♦SES	SGAI
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2N1437	GPD	204 - 3
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2N1438	GPD	204 - 4
		♦STC
2N1439	CSR	134 - 8
	IDI	♦SES
	SLD	SSI
	SSI	♦TCY
	STI	TSI
2N1440	CRI	134 - 9
	CSR	♦ETC
	IDI	NJS
	♦SES	SLD
	SSI	SST
	STI	TADI
	♦TCY	TSI
2N1441	CRI	134 - 10
	CSR	♦ETC
	IDI	NJS
	♦SES	SLD
	SSI	SST
	STI	TADI
	♦TCY	TSI
2N1442	CRI	134 - 11
	CSR	♦ETC
	IDI	NJS
	♦SES	SLD
	SSI	SST
	STI	TADI
	♦TCY	TSI

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	♦TCY	TSI
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2N1445	CEN	182 - 57
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	GSE	♦SES
	SLD	SSI
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2N1446	CEN	114 - 57
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	♦ETC	IDI
	NJS	STI
2N1447	CEN	114 - 71
	CSR	♦ETC
	IDI	STI
2N1448	CEN	114 - 83
	CSR	♦ETC
	IDI	NJS
		STI
2N1449	CEN	114 - 96
	CSR	♦ETC
	IDI	STI
2N1450	CEN	108 - 64
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		108 - 65
2N1451	CEN	114 - 44
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	IDI	NJS
2N1452	CEN	114 - 62
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	IDI	NJS
2N1465	CSR	204 - 5
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2N1466	CSR	204 - 6
	GPD	♦STC
2N1469	CRI	124 - 65
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	SCA	♦SES
	SLD	♦SPR
	SST	♦TCY
		TSI
JAN2N1469	TCY	124 - 66
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2N1471	CEN	104 - 8
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2N1473	CEN	120 - 28
	CSR	♦ETC
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2N1474	CRI	124 - 45
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	NJS	SCA
	♦SES	SLD
	SPE	SST
	♦TCY	TSI
2N1474A	CSR	124 - 67
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	NJS	SCA
	♦SES	SLD
	SST	♦TCY
		TSI
2N1475	CRI	124 - 46
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	SCA	♦SES
	SLD	SST
	STI	♦TCY
		TSI
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	SCA	♦SES
	SLD	SST
	♦TCY	TSI
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	SCA	♦SES
	SLD	SST
	♦TCY	TSI
2N1478	CEN	116 - 14
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	CRI	CSR
	ETC	GTC
	KER	LUCB
	NASB	♦SES
	SLD	♦SPC
	SPE	SSI
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		TEC
JAN2N1479	RCA	236 - 63
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2N1480	Δ♦RCA	236 - 64
	AMC	CEN
	CSR	ETC
	GTC	KER
	LUCB	NASB
	NJS	♦SES
	SLD	♦SPC

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	♦STC	STI
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JAN2N1480	RCA	236 - 65
	SPC	STC
2N1481	Δ♦RCA	236 - 66
	AMC	♦BELI
	CEC	CEN
	CRI	CSR
	ETC	GTC
	IDC	KER
	LUCB	NASB
	NJS	♦SES
	SLD	♦SPC
	SPE	SSI
	SST	♦STC
	STI	STR
	TEC	UPI
JAN2N1481	RCA	236 - 67
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2N1482	Δ♦RCA	236 - 68
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	CEN	CSR
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	IDC	KER
	LUCB	MEHK
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	SSI	SST
	♦STC	STI
	STR	TEC
		UPI
JAN2N1482	RCA	236 - 69
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2N1483	Δ♦RCA	250 - 6
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	CRI	CSR
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	♦SPC	SPE
	♦STC	STI
	STR	UPI
JAN2N1483	RCA	250 - 7
	SEN	SPC
		STC
2N1484	Δ♦RCA	250 - 8
	AMC	AMR
	CEC	IDC
	SEI	♦SEN
	♦SES	♦SPC
	SPE	♦STC
	STI	STR
		UPI
JAN2N1484	RCA	250 - 9
	SEN	SPC
		STC
2N1485	Δ♦RCA	250 - 10
	AMC	CEC
	CRI	CSR
	IDC	PPC
	SEI	♦SEN
	♦SES	♦SPC
	SPE	♦STC
	STI	STR
		UPI
JAN2N1485	RCA	250 - 11
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		STC
2N1486	Δ♦RCA	250 - 12
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	CRI	CSR
	IDC	PPC
	♦SEN	♦SES
	♦SPC	SPE
	♦STC	STI
	STR	UPI
JAN2N1486	RCA	250 - 13
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		STC
2N1487	Δ♦RCA	262 - 96
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	GTC	IDI
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JAN2N1487	RCA	262 - 79
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		STC
2N1488	Δ♦RCA	262 - 97
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	NJS	PPC
	SCA	♦SEN
	♦SES	SLD
	♦SPC	SSI
	SST	♦STC
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JAN2N1488	RCA	262 - 80
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	♦SES	SLD
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JAN2N1489	RCA	262 - 81
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	KER	NJS
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	SLD	♦SPC
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2N1492	Δ♦RCA	171 - 14
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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	SCA	♦SES
	SLD	♦SPC
	SPE	SSI
	SST	♦STC
		TEC
2N1701	Δ♦RCA	250- 51
	AMC	CEN
	CRI	CSI
	CSR	FERB
	IDI	KER
	NJS	SEI
	♦SEN	♦SES
	♦SPC	SPE
	♦STC	UPI
2N1702	Δ♦RCA	262- 89
	AMC	CEN
	CRI	CSI
	CSR	♦ETC
	♦FERB	GSE
	GTC	IDI
	KER	NJS
	PPC	SCA
	♦SES	SLD
	♦SPC	SPE
	SSI	SST
	♦STC	TEC
2N1703	CRI	262- 90
	CSR	FERB
	KER	♦SES
	SSI	STC
2N1704	CRI	171-100
	CSR	♦ETC
		NJS
2N1705	CEN	113- 73
	CRI	CSR
	♦ETC	GTC
	IDI	LTE
	NJS	♦SES
	STR	UPI
2N1706	CEN	113- 74
	CRI	CSR
	♦ETC	GTC
	IDI	LTE
	NJS	♦SES
	STI	STR
		UPI
2N1707	CEN	113- 75
	CRI	CSR
	♦ETC	GTC
	IDI	LTE
	NJS	♦SES
	STI	STR
		UPI
2N1708	CEN	158-101
	CRI	CSR
	♦FERB	GESY
	NJS	SCA
	SES	SSI
2N1708A	CSR	160- 3
		SSI 297-102
2N1709	Δ♦TRW	247- 36
	CSR	SCA
	♦SES	SSI
2N1710	Δ♦TRW	247- 37
	CSR	SCA
	♦SES	SSI
2N1711	ALGG	184- 14
	CEC	CEN
	CRI	CSI
	CSR	♦DEF
	ELMA	ESE
	ETC	FSC
	GTC	IDC
	IDI	INTG
	ITTB	MEHK
	MISI	♦MULB
	NASB	NJS
	NPC	NSC
	NTLB	NTR
	♦PHIC	♦PHIN
	♦RCA	RCAB
	RTCF	RTN
	SCA	SDE
	SEI	♦SES
	SGAI	SLD
	SPE	SST
	STI	STR
	TADI	TEC
	THCF	♦TII
	TIIB	TIID
	TIIF	♦UNI
JAN2N1714	TII	182- 82
2N1715	Δ♦TII	182- 83
	AMC	CEN
	CRI	CSR
	ETC	GSE
	IDI	NJS
	SCA	SDE
	SEI	♦SES
	SLD	SSI
	SST	TEC
	TIIB	TIID
	TIIF	♦UNI
JAN2N1715	TII	182- 84
2N1716	Δ♦TII	182- 85
	AMC	CEN
	CRI	CSR
	ETC	GSE
	GTC	IDI
	NJS	SCA
	SDE	SEI
	♦SES	SLD
	SSI	SST
	TEC	TIIB
	TIID	TIIF
		♦UNI
JAN2N1716	TII	182- 86
2N1717	Δ♦TII	182- 87
	AMC	CEN
	CRI	CSR
	ETC	GSE
	IDI	NJS
	SCA	SEI
	♦SES	SLD
	SPE	SSI
	SST	TEC
	TIIB	TIID
	TIIF	♦UNI
JAN2N1717	TII	182- 88
2N1718	Δ♦TII	249- 41
	AMC	CEN
	CRI	CSR
	SCA	SES
	SLD	SPE
	SSI	SST
	TEC	TIIB
	TIID	TIIF
		♦UNI
2N1719	Δ♦TII	249- 42
	AMC	CRI
	CSR	SCA
	SES	SLD
	SSI	SST
	TEC	TIIB
	TIID	TIIF
		♦UNI
2N1720	Δ♦TII	249- 43
	AMC	CRI
	CSR	GTC
	IDI	SCA
	SES	SLD
	SPE	SSI
	SST	TEC
	TIIB	TIID
	TIIF	♦UNI
2N1721	Δ♦TII	249- 44
	AMC	CEN
	CRI	CSR
	SCA	SES
	SLD	SPE
	SSI	SST
	TEC	TIIB
	TIID	TIIF
		♦UNI
2N1722	Δ♦TII	267- 94
	CRI	CSR

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	STI	
2N1958A	CSI	300 - 85
CSR	♦ETC	177 - 74
NJS	♦SES	
SSI	STI	
2N1959	CEN	177 - 75
CSR	♦ETC	301 - 75
IDI	NJS	
SCA	♦SES	
SSI	STI	
2N1959A	CSR	300 - 86
♦ETC	IDI	177 - 76
NJS	SCA	
SSI	STI	
2N1969	CEN	322 - 87
CSR	ETC	111 - 98
IDI	NJS	
	UPI	
2N1970	CEN	209 - 5
CSR	ETC	
♦GPD	LTE	
NJS	♦SES	
SLD	SPE	
SST	♦STC	
UPI	UTS	
2N1971	CEN	204 -103
CSR	♦GDC	
♦GPD	GTC	
IDI	LTE	
	♦SES	
2N1972	CEN	176 -109
CRI	CSI	
CSR	ETC	
IDI	NJS	
SCA	SES	
SSI	STI	
	TEC	
2N1973	CEC	183 - 86
CEN	CRI	
CSR	♦ETC	
♦GDC	GTC	
IDI	NASB	
NJS	NTR	
♦RTN	SCA	
SEI	SES	
SPE	SSI	
STI	TADI	
TEC	♦TII	
TIID	UPI	
2N1974	AMC	183 - 37
AMR	CEN	
CRI	CSR	
♦ETC	♦GDC	
GTC	NJS	
NTR	♦RTN	
SDE	SES	
SSI	TADI	
TEC	♦TII	
TIID	UPI	
2N1975	AMC	183 - 10
CEN	CRI	
CSR	♦ETC	
♦GDC	GTC	
IDI	NASB	
NJS	NTR	
♦RTN	SDE	
SEI	SES	
SSI	TEC	
♦TII	TIID	
	UPI	
2N1980	CEN	210 - 84
CRI	CSR	
♦GPD	LTE	
NJS	♦SES	
SSI	♦STC	
UPI	UTS	
2N1981	CEN	210 - 85
CRI	CSR	
♦GPD	LTE	
NJS	♦SES	
SSI	♦STC	
UPI	UTS	
2N1982	CEN	210 - 86
CRI	CSR	
♦GPD	LTE	
NJS	♦SES	
SSI	♦STC	
UPI	UTS	
2N1983	CEN	176 - 89
CSI	CSR	
♦ETC	GSE	
GTC	IDI	
NJS	♦RTN	
SCA	SES	
SGAI	STI	
TEC	UPI	
2N1984	CEN	176 - 90
CRI	CSI	
CSR	♦ETC	
GSE	GTC	
IDI	NASB	
NJS	♦RTN	
SEI	SES	
SGAI	STI	
TEC	UPI	
2N1985	CEN	176 - 91
CRI	CSR	
♦ETC	GSE	
IDI	NJS	
♦RTN	SEI	

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2N1985		
(cont.)	SES	
SGAI	STI	
TEC	UPI	
2N1986	CEN	176 - 92
CRI	CSI	
CSR	♦ETC	
GTC	IDI	
NASB	NJS	
♦RTN	SCA	
SEI	SES	
SGAI	SPE	
STI	TADI	
TEC	UPI	
2N1987	CEN	176 - 93
CRI	CSR	
♦ETC	GTC	
IDI	NJS	
♦NPC	♦RTN	
SCA	SES	
SGAI	STI	
TADI	TEC	
	UPI	
2N1988	CEN	176 - 94
CSR	♦ETC	
♦GDC	GTC	
IDI	NASB	
NJS	♦RTN	
SES	STI	
TADI	TEC	
	UPI	
2N1989	CEN	176 - 95
CSR	♦ETC	
♦GDC	IDI	
NJS	♦RTN	
SCA	SES	
STI	TEC	
	UPI	
2N1990	CEN	176 - 37
CRI	CSR	
♦DEF	♦ETC	
♦GDC	GTC	
IDI	MEHK	
MISI	MOTA	
NASB	NJS	
NPC	NTR	
♦RTN	SCA	
SDE	♦SES	
SGAI	SPE	
STI	TADI	
TEC	THCF	
TIIF	UPI	
2N1990R	MISI	153 - 26
♦NPC	THCF	
	TIIF	
2N1990S	♦NPC	176 - 38
	TIIF	
2N1991	CEN	138 - 34
CRI	CSR	
ETC	GTC	
IDI	NASB	
NJS	SCA	
♦SES	SGAI	
SLD	SST	
	STI	
2N1993	CEN	119 - 51
CRI	CSR	319 -107
♦ETC	IDI	
SLD	SST	
STI	TII	
2N1994	△♦TII	338 - 19
CRI	CSR	
IDC	SLD	
SPE	SST	
STI	TIID	
2N1995	△♦TII	338 - 20
CSR	SLD	
SPE	SST	
STI	TIID	
2N1996	△♦TII	338 - 21
CSR	SLD	
SST	STI	
	TIID	
2N1997	△♦TII	116 - 8
CEN	CRI	310 - 82
CSR	ETC	
GTC	IDI	
NJS	♦SES	
SLD	SPE	
SST	STI	
STR	TIID	
2N1998	△♦TII	309 - 72
CEN	CRI	116 - 12
CSR	ETC	
IDI	NJS	
♦SES	SLD	
SPE	SST	
STI	STR	
	TIID	
2N1999	△♦TII	116 - 17
CEN	CRI	308 - 4
CSR	ETC	
GTC	IDI	
NJS	♦SES	
SLD	SST	
STI	STR	
	TIID	
2N2000	CEN	116-101
CRI	CSR	319 - 99
GTC	IDI	
SEI	♦SES	
SLD	SST	
STI	STR	
	TIID	

TYPE No.	MFRS	Pg&Line
2N2001	CEN	319 - 11
CRI	CSR	116-109
♦ETC	IDI	
NJS	♦SES	
SLD	SPE	
SST	STR	
	TIID	
2N2002	CRI	124 - 31
CSR	IDI	
♦SES	SSI	
♦TCY	TSI	
2N2003	CRI	124 - 32
CSR	IDI	
NASB	RTN	
♦SES	SSI	
♦TCY	TSI	
2N2004	CRI	124 - 33
CSR	IDI	
NASB	RTN	
♦SES	SSI	
♦TCY	TSI	
2N2005	CRI	124 - 34
CSR	IDI	
RTN	♦SES	
SSI	♦TCY	
	TSI	
2N2006	AMR	124 - 35
CRI	CSR	
IDI	♦SES	
SSI	♦TCY	
	TSI	
2N2007	CSR	124 - 36
IDI	♦SES	
SSI	♦TCY	
	TSI	
2N2008	△♦RTN	183 - 11
CSR	GTC	
IDI	NASB	
SCA	♦SES	
	SSI	
2N2015	SPC	274 - 20
SPE	SSI	
	STC	
JAN2N2015	none	273 - 7
2N2016	IDC	274 - 21
SPC	SPE	
SSI	STC	
JAN2N2016	none	273 - 8
2N2017	CEN	236 - 74
CSR	GTC	
IDI	KER	
MEHK	NASB	
NSC	NTR	
SCA	SDE	
SES	SSI	
TADI	TEC	
2N2018	△♦TEC	256 - 95
CRI	CSR	
GSE	♦SES	
SLD	SSI	
	SST	
2N2019	△♦TEC	256 - 96
CRI	CSR	
GSE	♦SES	
SLD	SSI	
	SST	
2N2020	△♦TEC	257 - 13
CRI	CSR	
♦SES	SLD	
SSI	SST	
2N2021	△♦TEC	257 - 14
CRI	♦SES	
SLD	SSI	
	SST	
2N2032	△♦TEC	263 - 82
CRI	ETC	
SCA	♦SES	
♦SPC	SSI	
	♦STC	
2N2033	△♦STC	263 - 92
AMC	CSR	321 - 26
ETC	IDI	
KER	NJS	
SDE	♦SES	
♦SPC	SSI	
2N2034	△♦STC	321 - 27
AMC	CRI	263 - 93
CSR	IDI	
KER	NJS	
SDE	♦SES	
♦SPC	SSI	
	TIIF	
JAN2N2034	none	245 - 76
		325 - 9
2N2035	△♦STC	321 - 28
AMC	CRI	250 - 52
CSR	IDI	
SCA	♦SEN	
♦SES	♦SPC	
	SSI	
2N2036	△♦STC	247 - 45
CRI	KER	321 - 29
	SSI	
2N2038	△♦TEC	176 - 60
AMR	CRI	
CSR	ETC	
IDI	NJS	
♦SES	SSI	
2N2039	△♦TEC	176 - 61
CRI	CSR	
ETC	IDI	
NJS	♦SES	
	SSI	

TYPE No.	MFRS	Pg&Line
2N2040	△♦TEC	176 - 62
CRI	CSR	
ETC	IDI	
NJS	♦SES	
SSI	STI	
2N2041	△♦TEC	176 - 63
CSR	ETC	
GTC	IDI	
NJS	♦SES	
SSI	STI	
2N2042	CEN	113 - 88
CRI	IDI	
LTE	♦SES	
	STI	
2N2042A	CEN	113 - 89
IDI	SES	
SPE	STI	
2N2043	CEN	113 - 98
CRI	IDI	
LTE	♦SES	
STI	UPI	
2N2043A	CEN	113 - 99
IDI	SES	
	STI	
2N2048	CRI	112 - 41
CSR	♦ETC	300 - 90
IDC	NJS	
SES	SPE	
♦SPR	STI	
	UPI	
2N2048A	CSR	292 - 13
NJS	STI	112 - 42
2N2049	CEN	183 - 38
CRI	CSR	
GTC	IDI	
NJS	NTR	
SDE	♦SES	
SGAI	SSI	
	TADI	
2N2059	CEN	105 - 37
		289 - 6
2N2060	AMR	172 - 66
CEC	CRI	339 - 72
FERB	♦MEHK	
♦MOTA	♦RTN	
SES	SGAI	
SPE	SSI	
STI	TADI	
♦TII	TIIB	
TIID	TIIF	
	UPI	
JAN2N2060	FSC	339 - 73
MOTA	RTN	175 - 72
	TII	
2N2060A	CRI	172 - 67
CSR	♦MEHK	339 - 74
♦MOTA	RTN	
♦SES	SGAI	
SSI	STI	
	TADI	
2N2060B	♦MEHK	339 - 75
RTN	♦SES	172 - 68
SSI	STI	
2N2061	CEN	205 - 47
CRI	CSR	
♦ETC	GPD	
LTE	NJS	
2N2061A	CEN	209 - 6
CSR	♦ETC	328 - 66
GPD	NJS	
2N2062	CEN	205 - 48
CSR	♦ETC	
GPD	LTE	
	NJS	
2N2062A	CEN	209 - 7
CSR	♦ETC	328 - 63
GPD	NJS	
2N2063	CEN	204 -104
CRI	CSR	
♦ETC	GPD	
LTE	NJS	
2N2063A	CEN	209 - 8
CSR	♦ETC	328 - 67
GPD	NJS	
	SPE	
2N2064	CEN	204 -105
CRI	CSR	
♦ETC	GPD	
LTE	NJS	
2N2064A	CEN	209 - 9
CSR	♦ETC	328 - 64
GPD	NJS	
2N2065	CEN	204 -106
CRI	CSR	
♦ETC	GPD	
LTE	NJS	
2N2065A	CEN	209 - 10
CSR	♦ETC	328 - 68
GPD	NJS	
2N2066	CEN	204 -107
CRI	CSR	
♦ETC	GPD	
LTE	NJS	
2N2066A	CEN	209 - 11
CSR	♦ETC	328 - 65
GPD	NJS	
2N2067	CRI	204 - 41
ETC	♦GPD	
NJS	SPE	
	♦STC	
2N2067-O	ETC	204 - 42
GPD	STC	

TYPE No.	MFRS	Pg&Line
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	STC	
2N2067G	ETC	204 - 44
GPD	STC	
2N2067W	ETC	204 - 45
GPD	STC	
2N2068	CRI	204 - 46
ETC	♦GPD	
NJS	♦STC	
2N2068-O	ETC	204 - 47
GPD	STC	
2N2068G	ETC	204 - 48
GPD	STC	
2N2069	CEN	207 - 22
2N2070	CEN	207 - 23
	SPE	
2N2071	CEN	207 - 24
2N2072	CEN	207 - 25
2N2075	CEN	210 - 87
CRI	CSR	
♦GPD	LTE	
NASB	NJS	
♦SES	SLD	
SPE	SST	
♦STC	UTS	
2N2075A	CEN	210 - 88
CSR	GPD	
LTE	NJS	
2N2076	CEN	210 - 89
CRI	CSR	
♦GPD	LTE	
NASB	NJS	
♦SES	SLD	
SPE	SST	
♦STC	UTS	
2N2076A	CEN	210 - 90
CSR	GPD	
LTE	NJS	
	SPE	
2N2077	CEN	210 - 91
CRI	CSR	
♦GPD	LTE	
NASB	NJS	
♦SES	SLD	
SPE	SST	
♦STC	UTS	
2N2077A	CEN	210 - 92
CSR	GPD	
	LTE	
2N2078	AMR	210 - 93
CEN	CRI	
CSR	♦GPD	
LTE	NASB	
NJS	♦SES	
SLD	SPE	
SST	♦STC	
TSI	UTS	
2N2078A	CEN	210 - 94
CSR	GPD	
LTE	NJS	
2N2079	CEN	210 - 95
CRI	CSR	
♦GPD	LTE	
NASB	NJS	
♦SES	SLD	
SPE	SST	
♦STC	UTS	
2N2079A	CEN	210 - 96
CSR	GPD	
LTE	NJS	
JAN2N2079A	GPD	210 - 97
		329 - 43
2N2080	CEN	210 - 98
CRI	CSR	
♦GPD	IDC	
LTE	NASB	
NJS	♦SES	
SLD	SST	
♦STC	UTS	
2N2080A	CEN	210 - 99
CSR	GPD	
IDI	LTE	
	NJS	
2N2081	CEN	210-100
CRI	CSR	
♦GPD	LTE	
NASB	NJS	
♦SES	SLD	
SPE	SST	
♦STC	UTS	
2N2081A	CEN	210-101
CSR	GPD	
LTE	NJS	
2N2082	CEN	210-102
CRI	CSR	
♦GPD	LTE	
NASB	NJS	
♦SES	SLD	
SPE	SST	
♦STC	UPI	
2N2082A	AMR	210-103
CEN	CSR	
GPD	LTE	
	NJS	
2N2083	CEN	105 - 32
2N2084	SPE	109 - 63
JAN2N2084	none	109 - 60
2N2085	CEN	119 - 83
CSR	ETC	
	NJS	
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2N2194A		
(cont.)	IDI	
	MEHK	MISI
	NASB	NJS
	NPC	♦RTN
	SCA	SDE
	♦SES	SLD
	SST	STI
	STR	TADI
	THCF	♦TII
	TIIB	TIID
		TIIF
2N2194B	CEN	183 - 47
	CSR	♦DEF	301-104
	IDI	NASB
	NJS	♦RTN
	SCA	SDE
	♦SES	SLD
	SST	STI
	STR	TADI
2N2195	CEN	176-110
	CRI	CSR
	♦DEF	ETC
	GTC	IDI
	MEHK	MISI
	NASB	NJS
	NPC	NSC
	NTR	♦RTN
	SCA	SDE
	♦SES	SGAI
	SLD	SPE
	SST	STI
	TADI	TEC
		THCF
2N2195A	AMR	177 - 1
	CSR	♦DEF
	ETC	GTC
	IDI	MEHK
	MISI	NASB
	NJS	NPC
	NSC	NTR
	♦RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SST	STI
	TADI	THCF
2N2195B	CEN	177 - 2
	CSR	♦DEF
	ETC	GTC
	IDI	NASB
	NJS	NTR
	♦RTN	SCA
	SDE	♦SES
	SLD	SST
	STI	TADI
2N2196	CRI	249 - 45
	CSR	MISI
	NPC	SCA
	♦SES	SSI
	STI	TEC
	THCF	UTS
2N2197	AMR	249 - 46
	CSR	MISI
	NPC	SCA
	♦SES	SPE
	SSI	STI
	TEC	THCF
		UTS
2N2198	♦ETC	176 - 75
		NJS
2N2199	CSR	106 - 44
	♦ETC	♦SPR
2N2200	♦ETC	106 - 45
	NJS	SCA
		♦SPR
2N2201	CEN	243 - 87
	CSR	♦GDC
	SCA	♦SES
	SLD	SSI
	SST	STC
	STI	TEC
2N2202	SCA	243 - 88
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		STI
2N2203	CRI	243 - 89
	SCA	♦SES
	SSI	STI
2N2204	♦SES	243 - 90
		SSI
2N2205	CEN	296-105
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	♦DEF	ETC
	♦FERB	GTC
	IDI	ITT
	NASB	NJS
	RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SPE	SST
2N2206	AMR	158-103
	CEN	CSR	296-106
	♦FERB	GTC
	IDI	ITT
	MOTA	SCA
	SES	SPE
2N2207	PHIC	116 - 32
		SPE
2N2208	SPE	108 - 66
		STI
2N2209	CEN	111 - 62
2N2210	CEN	207 - 26
	CSR	GPD
	IDC	LTE
2N2211	CEN	209 - 12
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TYPE No.	MFRS	Pg&Line
2N2212	CEN	209 - 13
	CSR	♦GPD
	GTC	IDI
	LTE	SPE
		SSI
2N2217	CEN	185 - 54
	CRI	CSR
	♦DEF	DIT
	ESE	IDC
	IDI	♦MEHK
	NASB	NJS
	♦RTN	SDE
	SEI	♦SES
	SGAI	SLD
	SPE	SST
	STR	TADI
	♦TEC	TIID
	TIIF	UPI
2N2218	△MOTA	185 - 55
	♦ALGG	AMR
	BELI	CEN
	CRI	CSR
	♦DEF	DIT
	ESE	♦ETC
	♦FSC	GTC
	IDI	INTG
	♦ITT	ITTB
	♦MEHK	MISI
	NASB	NJS
	♦NPC	♦NSC
	♦NTLB	NTR
	♦PHIN	♦RTCF
	♦RTN	SCA
	SDE	SEI
	♦SES	SGAI
	SLD	SPE
	♦SPR	SST
	STI	STR
	TADI	TEC
	THCF	♦TII
	TIIB	TIID
	TIIF	UPI
		♦VALG
JAN2N2218	FSC	185 - 56
	MOTA	NSC	297 - 67
	RTN	TEC
		TII
2N2218A	△♦MOTA	293 - 19
	♦ALGG	BELI	185 - 57
	CEN	CRI
	CSR	♦DEF
	DIT	ESE
	ETC	♦FSC
	GTC	IDC
	IDI	♦INTG
	ITT	ITTB
	MEHK	MISI
	NASB	NJS
	♦NPC	♦NSC
	♦NTLB	NTR
	♦PHIN	♦RTCF
	♦RTN	SCA
	SDE	SEI
	♦SES	SGAI
	SLD	SPE
	♦SPR	SST
	STI	STR
	TADI	TEC
	THCF	♦TII
	TIIB	TIID
	TIIF	UPI
		♦VALG
JAN2N2218A	FSC	185 - 58
	MOTA	NSC	295 - 89
	RTN	TEC
		TII
2N2219	△MOTA	185 - 59
	♦ALGG	BELI
	CEN	CRI
	CSR	♦DEF
	DIT	ELMA
	ESE	♦ETC
	♦FSC	GTC
	IDC	IDI
	♦INTG	ITT
	ITTB	MISI
	NASB	NJS
	NPC	♦NSC
	♦NTLB	NTR
	♦PHIN	♦RTCF
	♦RTN	SCA
	SDE	SEI
	♦SES	SGAI
	SLD	♦SPR
	SST	STI
	STR	TADI
	♦TEC	THCF
	♦TII	TIIB
	TIID	TIIF
	UPI	♦VALG
JAN2N2219	FSC	185 - 60
	ITT	MOTA	297 - 68
	NSC	RTN
	SOD	TEC
		TII
2N2219A	△♦MOTA	293 - 46
	♦ALGG	BELI	185 - 99
	CEN	CRI
	CSI	CSR
	♦DEF	DIT
	ELMA	ESE
	ETC	♦FSC
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N2219A		
(cont.)	GTC	
	IDI	♦INTG
	ITT	ITTB
	MEHK	MISI
	NASB	NJS
	NPC	♦NSC
	♦NTLB	NTR
	♦PHIN	♦RTCF
	♦RTN	SCA
	SDE	SEI
	♦SES	SGAI
	SLD	SPE
	♦SPR	SST
	STI	STR
	TADI	TEC
	THCF	♦TII
	TIIB	TIID
	TIIF	UPI
		♦VALG
JAN2N2219A	FSC	185 - 61
	ITT	MOTA	295 - 90
	NSC	RTN
	SOD	TEC
		TII
2N2220	CEN	174 - 11
	CRI	CSI
	CSR	♦DEF
	DIT	ESE
	IDC	IDI
	♦MEHK	NASB
	NJS	♦RTN
	SCA	SDE
	SEI	♦SES
	SLD	SST
	STI	TADI
	♦TEC	TIID
	TIIF	UPI
2N2220A	DIT	175 - 14
	NTR	STI
		TIID
2N2221	△♦MOTA	174 - 12
	♦ALGG	AMR
	BELI	CEN
	CRI	CSI
	CSR	♦DEF
	DIT	ELMA
	ESE	♦ETC
	♦FSC	GTC
	IDC	IDI
	INTG	♦ITT
	ITTB	♦MEHK
	MISI	NASB
	NJS	♦NPC
	♦NSC	♦NTLB
	NTR	♦PHIN
	♦RTCF	♦RTN
	SCA	SDE
	SEI	♦SES
	SGAI	SLD
	SPE	♦SPR
	SST	STI
	STR	TADI
	♦TEC	THCF
	♦TII	TIIB
	TIID	TIIF
	UPI	♦VALG
JAN2N2221	FSC	174 - 13
	ITT	MOTA	297 - 69
	NSC	RTN
	TEC	TII
2N2221A	△♦MOTA	293 - 20
	♦ALGG	BELI	174 - 14
	CEN	CRI
	CSR	♦DEF
	DIT	ELMA
	ESE	ETC
	♦FSC	GTC
	IDC	IDI
	♦INTG	ITT
	ITTB	MISI
	NASB	NJS
	NPC	♦NSC
	♦NTLB	NTR
	♦PHIN	♦RTCF
	♦RTN	SCA
	SDE	SEI
	♦SES	SGAI
	SLD	♦SPR
	SST	STI
	STR	TADI
	TEC	THCF
	♦TII	TIIB
	TIID	TIIF
	UPI	♦VALG
JAN2N2221A	FSC	174 - 15
	ITT	MOTA	295 - 91
	NSC	RTN
	TEC	TII
2N2222	△♦MOTA	174 - 16
	♦ALGG	BELI
	CEN	CRI
	CSI	CSR
	♦DEF	DIT
	ELMA	ESE
	♦ETC	♦FSC
	GTC	IDC
	IDI	INTG
	♦ITT	ITTB
	♦MEHK	MISI
	NASB	NJS
	♦NPC	NSC
	♦NTLB	NTR
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N2222		
(cont.)	♦PHIN	
	♦RTCF	♦RTN
	SCA	SDE
	SEI	♦SES
	SGAI	SLD
	SPE	♦SPR
	SST	STI
	STR	TADI
	♦TEC	THCF
	♦TII	TIIB
	TIID	TIIF
	UPI	♦VALG
JAN2N2222	FSC	174 - 17
	ITT	MOTA	297 - 70
	NSC	RTN
	SOD	TEC
		TII
2N2222A	△♦MOTA	293 - 47
	♦ALGG	AMR	174 - 63
	BELI	CEN
	CRI	CSR
	♦DEF	DIT
	ELMA	ESE
	ETC	♦FSC
	GTC	IDC
	IDI	♦INTG
	ITT	ITTB
	MEHK	MISI
	NASB	NJS
	NPC	♦NSC
	♦NTLB	NTR
	♦PHIN	♦RTCF
	♦RTN	SCA
	SDE	SEI
	♦SES	SGAI
	SLD	SPE
	♦SPR	SST
	STI	STR
	TADI	TEC
	THCF	♦TII
	TIIB	TIID
	TIIF	UPI
		♦VALG
JAN2N2222A	FSC	174 - 18
	ITT	MOTA	295 - 92
	NSC	RTN
	SOD	TEC
		TII
2N2223	AMR	172 - 39
	CSR	ESE	339 - 76
	FERB	♦MOTA
	NPC	♦RTN
	SCA	SES
	SGAI	SPE
	SSI	STI
	STR	TADI
	♦TII	TIIB
	TIID	TIIF
		UPI
2N2223A	AMR	339 - 77
	CEC	CRI	172 - 40
	CSR	ESE
	FERB	♦MOTA
	♦RTN	SES
	SGAI	SSI
	STI	STR
	TADI	♦TII
	TIIB	TIID
2N2225	CEN	115 - 11
		303-104
2N2226	△♦WESY	282-110
	GTC	KER
	♦SES	♦SPC
	SPE	♦SSI
		♦STC
2N2227	△♦WESY	283 - 1
	GTC	KER
	♦SES	♦SPC
	♦SSI	STC
2N2228	△♦WESY	283 - 2
	GTC	KER
	♦SES	♦SPC
	♦SSI	STC
2N2229	△♦WESY	283 - 3
	CRI	GTC
	KER	♦SES
	♦SPC	♦SSI
		STC
2N2230	△♦WESY	283 - 4
	CRI	GTC
	KER	♦SES
	♦SPC	SSI
		STC
2N2231	△♦WESY	283 - 5
	CRI	GTC
	KER	♦SES
	♦SPC	SSI
		STC
2N2232	△♦WESY	283 - 6
	CRI	GTC
	KER	♦SES
	♦SPC	SSI
		STC
2N2233	△♦WESY	283 - 7
	CRI	GTC
	KER	♦SES
	♦SPC	SSI
		STC

TYPE No.	MFRS	Pg&Line
2N2236	CEN	294 - 6
	CRI	CSR	177 - 3
	♦DEF	IDI
	NASB	RTN
	SCA	SDE
	♦SES	SSI
		TADI
2N2237	CEN	177 - 77
	CRI	CSI	292-108
	CSR	♦DEF
	GTC	IDI
	NASB	NTR
	RTN	SDE
	♦SES	SSI
		TADI
2N2238	CEN	117 - 13
2N2239	KER	233 - 32
	SCA	SPE
		SSI
2N2240	IDI	177 - 4
	SCA	SSI
2N2241	IDI	177 - 5
	SCA	SSI
2N2242	CEN	167 - 47
	CRI	CSR
	IDI	ITT
	NASB	SCA
	SES	SLD
		SST
2N2243	AMR	183 - 48
	CEN	CRI
	CSR	♦DEF
	♦GDC	GTC
	IDI	MEHK
	NASB	NSC
	NTR	♦RTN
	SCA	SDE
	♦SES	SPE
	SSI	SST
	TADI	TEC
	♦TII	TIIB
	TIID	TIIF
		TSI
2N2243A	CEN	183 - 49
	CSR	♦DEF
	♦GDC	GTC
	IDI	MEHK
	NASB	NSC
	NTR	♦RTN
	SCA	SDE
	♦SES	SSI
	TADI	TEC
	♦TII	TIIB
	TIID	TIIF
2N2256	CRI	159 - 63
	CSI	GTC	288-103
	IDI	NASB
	SCA	SPE
2N2257	△♦MOTA	288-104
	CRI	CSI	159 - 64
	GTC	IDI
	NASB	SCA
2N2258	CRI	112 - 59
	IDI	SSI	289 - 7
2N2259	CRI	289 - 8
	IDI	SSI	112 - 60
2N2266	♦GPD	204-108
	♦SES	SST	328 - 45
		STC
2N2267	♦GPD	328 - 46
	♦SES	SST	204-109
		STC
2N2268	♦SES	204-110
	SST	328 - 47
2N2269	AMR	328 - 48
	♦SES	SST	205 - 1
2N2270	△MOTA	231 - 34
	CEN	CRI
	CSI	CSR
	♦DEF	♦ETC
	FERB	FSC
	GTC	IDI
	KER	MEHK
	NASB	NJS
	NSC	NTR
	♦RCA	RCAB
	RTN	SCA
	SDE	SEI
	♦SES	SPE
	SST	STI
	TADI	TEC
	♦TII	TIIF
	TSI	UPI
2N2270S	KER	231 - 35
2N2271	CEN	115 - 94
	CRI	CSR
	♦ETC	IDI
	NJS	UPI
2N2272	STI	167 - 48
		297-103
2N2273	GTC	108 - 30
	IDI	SPE
		SSI
JAN2N2273	none	108 - 37
2N2274	CRI	122 - 6
	IDC	IDI	345-105
	♦SES	SPE
	SSI	TADI
	♦TCY	TSI
2N2275	AMR	345-106
	IDC	IDI	122 - 7
	♦SES	SSI
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TYPE No.	MFRS	Pg&Line
2N2416	SLD	106- 50
	SPE	
	SSI	
	SST	
	STI	
	TIID	
2N2417	AMR	344-106
	CEN	
	ESE	
	SLD	
	SST	
	♦WAB	
2N2417A	CEN	344-107
	ESE	
	SLD	
	SPE	
	SST	
	♦WAB	
JAN2N2417A	none	344-108
2N2417B	CEN	344-109
	ESE	
	SLD	
	SST	
	♦WAB	
2N2418	CEN	344-110
	ESE	
	SLD	
	SST	
	♦WAB	
2N2418A	CEN	345- 1
	ESE	
	SLD	
	SST	
	♦WAB	
JAN2N2418A	none	345- 2
2N2418B	CEN	345- 3
	ESE	
	SLD	
	SPE	
	SST	
	♦WAB	
2N2419	CEN	345- 4
	ESE	
	SLD	
	SPE	
	SST	
	♦WAB	
2N2419A	CEN	345- 5
	ESE	
	SLD	
	SPE	
	SST	
	♦WAB	
JAN2N2419A	none	345- 6
2N2419B	CEN	345- 7
	ESE	
	SLD	
	SST	
	♦WAB	
2N2420	AMR	345- 8
	CEN	
	ESE	
	SLD	
	SST	
	♦WAB	
2N2420A	CEN	345- 9
	ESE	
	SLD	
	SST	
	♦WAB	
JAN2N2420A	none	345- 10
2N2420B	CEN	345- 11
	ESE	
	SLD	
	SST	
	♦WAB	
2N2421	CEN	345- 12
	ESE	
	SLD	
	SST	
	♦WAB	
2N2421A	CEN	345- 13
	ESE	
	SLD	
	SST	
	♦WAB	
JAN2N2421A	none	345- 14
2N2421B	CEN	345- 15
	ESE	
	SLD	
	SST	
	♦WAB	
2N2422	CEN	345- 16
	ESE	
	SLD	
	SPE	
	SST	
	♦WAB	
2N2422A	CEN	345- 17
	ESE	
	SLD	
	SST	
	♦WAB	
JAN2N2422A	none	345- 18
2N2422B	CEN	345- 19
	ESE	
	SLD	
	SST	
	♦WAB	
2N2423	CEN	210- 18
	CSR	
	GPD	
	LTE	
	♦SES	
2N2424	IDI	133- 69
	SCA	311- 26
	SSI	
	♦TCY	
	TSI	
2N2425	IDI	316- 25
	SCA	133- 68
	SPE	
	SSI	
	♦TCY	
	TSI	
2N2426	STI	119-103
2N2427	CSI	172- 42
	IDI	
	SCA	
	♦SES	
	SSI	
2N2428	Δ♦APX	113- 7
	CEN	
	PHIC	
	SPE	
2N2429	Δ♦APX	113- 9
	CEN	
	CRI	
	PHIC	
	SPE	
2N2430	Δ♦APX	120- 29
	CEN	
	PHIC	
	SPE	
	SST	
2N2431	Δ♦APX	115- 36
	CEN	
	PHIC	
	SPE	
	SST	
2N2431MP	♦APX	339- 80
	PHIC	
2N2432	Δ♦TII	346- 5
	CRI	156- 11
	CSR	
	NASB	
	RTN	
	♦SES	
	SLD	
	SPE	
	SST	
	TADI	
	♦TCY	
	TEC	
	TIIF	
	TSI	
	UPI	
JAN2N2432	TCY	156- 53
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	TII	
2N2432A	Δ♦TII	156- 12
	♦SES	346- 6
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	SPE	
	SST	
	TADI	
	♦TCY	

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TYPE No.	MFRS	Pg&Line
2N2432A		
(cont.)	TEC	
	TIIF	
	TSI	
JAN2N2432A	TCY	156- 54
	TEC	
	TII	
2N2433	SSI	172- 96
2N2434	SCA	173- 6
	SSI	
2N2435	SCA	172- 97
	SSI	
	TEC	
2N2436	SCA	173- 7
	SSI	
	TEC	
2N2437	SCA	172- 86
	SSI	
	TEC	
2N2438	SCA	172- 98
	SSI	
	TEC	
2N2439	SCA	173- 8
	SEI	
	SSI	
	TEC	
2N2440	GTC	184- 48
	IDI	
	SCA	
	♦SES	
	SSI	
2N2443	GTC	183- 50
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	SCA	
	♦SES	
	SSI	
	TEC	
2N2444	CEN	207- 27
	CSR	
	♦GPD	
	GTC	
	SSI	
2N2445	CEN	209- 17
	CSR	
	GPD	
	♦SES	
2N2446	CEN	209- 18
		329- 58
2N2451	ΔSPR	349- 1
	IDC	104- 30
2N2453	CRI	148- 90
	CSR	
	GDC	339- 81
	GTC	
	IDI	
	INL	
	MEHK	
	♦MOTA	
	NSC	
	♦RTN	
	SCA	
	♦SES	
	SGAI	
	SLD	
	SSI	
	SST	
	STI	
	TADI	
	♦TII	
	TIIF	
2N2453A	CRI	339- 82
	GDC	
	GTC	148- 91
	IDI	
	INL	
	♦MOTA	
	NSC	
	RTN	
	SCA	
	♦SES	
	SLD	
	SSI	
	SST	
	TADI	
	TIIF	
2N2455	SPE	112- 96
	SSI	295- 16
2N2456	SSI	291- 28
		112-106
2N2459	SCA	169- 28
	SSI	
2N2460	SCA	169- 36
	♦SES	
	SSI	
2N2461	SCA	169- 43
	♦SES	
	SSI	
2N2462	SCA	169- 62
	♦SES	
	SSI	
	UPI	
2N2463	IDI	173- 18
	SCA	
	♦SES	
	SSI	
2N2464	IDC	173- 44
	IDI	
	SCA	
	♦SES	
	SSI	
	STI	
2N2465	IDI	173- 67
	SCA	
	♦SES	
	SSI	
2N2466	IDI	173- 79
	SCA	
	♦SES	
	SSI	
2N2474	Δ♦TCY	338- 22
	SCA	
	SPE	
	TSI	
2N2475	CEN	161- 30
	CRI	292- 77
	CSR	
	ETC	
	♦FERB	
	GTC	
	IDI	
	NJS	
	♦PHIN	
	SCA	
	SEI	
	♦SES	
	SGAI	
	SPE	
	TADI	
	♦TEC	
	TIIF	
2N2476	CEN	293- 21
	CSI	CSR 178- 19
	♦ETC	♦FERB
	GTC	IDC
	IDI	NASB
	NJS	RTN
	SCA	SDE
	♦SES	SPE
	SST	TADI
2N2477	CEN	178- 20
	CSI	CSR 293- 22
	♦ETC	♦FERB
	GTC	IDC
	IDI	NASB
	NJS	RTN
	SCA	SDE
	♦SES	SGAI
	SPE	TADI
2N2478	♦ETC	303- 51
	NJS	178- 6

TYPE No.	MFRS	Pg&Line
2N2479	CEN	177-102
	CRI	CSR 305- 85
	♦DEF	♦ETC
	GTC	IDI
	NASB	NJS
	NTR	RTN
	SDE	♦SES
		TADI
2N2480	♦MOTA	156- 77
	♦RTN	SCA 339- 83
	SES	SPE
	SSI	TADI
2N2480A	CSR	339- 84
	♦MOTA	♦RTN 156- 78
	SCA	SES
	SPE	SSI
		TADI
2N2481	Δ♦MOTA	167- 50
	CEN	CRI 297-104
	CSR	♦DEF
	ETC	IDI
	ITT	NASB
	NJS	NTR
	♦RTN	SDE
	♦SES	SLD
	SST	TADI
JAN2N2481	FSC	302- 86
	MOTA	RTN 167- 51
2N2482	♦SES	119-107
	SPE	SSI
		STI
2N2483	CEN	166- 44
	CRI	CSR
	♦DEF	GTC
	IDI	♦ITT
	♦MEHK	MISI
	MOTA	NASB
	NJS	NPC
	♦NTLB	NTR
	♦PHIN	♦RTCF
	♦RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SPE	♦SPR
	SST	TADI
	TEC	THCF
	♦TII	TIIB
	TIID	TIIF
		UPI
2N2484	ΔFSC	166- 45
	CEC	CEN
	CRI	CSI
	CSR	♦DEF
	GTC	IDC
	IDI	♦ITT
	♦MEHK	MISI
	MOTA	NASB
	NJS	NPC
	♦NSC	♦NTLB
	NTR	♦PHIN
	♦RTCF	♦RTN
	SCA	SDE
	SEI	SES
	SGAI	SLD
	SPE	♦SPR
	SST	TADI
	TEC	THCF
	♦TII	TIIB
	TIID	TIIF
		UPI
JAN2N2484	FSC	166- 46
	NSC	RTN
	TEC	TII
2N2484A	CEN	166- 27
	CSR	♦DEF
	GTC	IDI
	ITT	NASB
	NTR	RTN
	SDE	♦SES
		TIIF
2N2485	STI	241- 8
2N2486	STI	241- 9
2N2487	ΔSPR	105- 77
	IDC	IDI
	SCA	SSI
2N2488	ΔSPR	105- 78
	IDC	IDI
	KER	SCA
		SSI
2N2489	ΔSPR	105- 72
	IDC	IDI
	SCA	SSI
2N2489A	SLD	143- 19
		SST
2N2490	CEN	211- 13
	CRI	CSR 329- 44
	♦ETC	♦GPD
	LTE	♦MOTA
	NJS	SLD
	SST	♦STC
		UTS
2N2491	CEN	329- 45
	CSR	♦GPD 211- 14
	LTE	♦MOTA
	NJS	SLD
	SST	♦STC
		UTS
2N2492	CRI	211- 15
	CSR	♦GPD 329- 46
	LTE	♦MOTA
	NJS	SLD
	SST	♦STC
		UTS

TYPE No.	MFRS	Pg&Line
2N2493	CEN	329- 47
	CSR	GPD 211- 16
	LTE	♦MOTA
	NJS	SLD
	SST	STC
		UTS
2N2496	PHIC	107- 55
		SSI
2N2497	Δ♦TII	190- 29
	CRI	INL
	NASB	NTR
	SLD	♦SODI
	SPE	TIIB
	TIID	TIIF
		TSC
JAN2N2497	none	190- 30
2N2498	Δ♦TII	190- 31
	INL	NASB
	♦PHIN	SLD
	♦SODI	SPE
	TIIB	TIID
	TIIF	TSC
JAN2N2498	TII	190- 32
2N2499	Δ♦TII	190- 33
	INL	NASB
	SLD	♦SODI
	TIIB	TIID
	TIIF	TSC
JAN2N2499	none	190- 34
2N2500	Δ♦TII	190- 35
	INL	NASB
	SLD	♦SODI
	SPE	TIIB
	TIID	TIIF
		TSC
JAN2N2500	none	190- 36
2N2501	Δ♦MOTA	167- 80
	CEN	CSI 290- 74
	CSR	IDI
	NASB	SCA
	SES	SPE
	SSI	SST
	STI	TEC
2N2509	CEN	166- 32
	CSR	♦DEF
	GTC	IDI
	♦ITT	MEHK
	NASB	NJS
	NSC	NTR
	RTN	SDE
	♦SES	SLD
	SPE	SST
	STI	TADI
		UPI
2N2510	CEN	166- 33
	CSR	♦DEF
	GTC	IDI
	♦ITT	MEHK
	NASB	NJS
	♦NSC	NTR
	RTN	SCA
	SDE	SEI
	♦SES	SLD
	SST	STI
		TADI
2N2511	CEN	166- 34
	CSR	♦DEF
	GTC	IDI
	♦ITT	MEHK
	NASB	NJS
	♦NSC	NTR
	RTN	SCA
	SDE	SEI
	♦SES	SLD
	SST	STI
		TADI
2N2514	SCA	168-101
	SES	SSI
2N2515	SCA	169- 11
	SES	SSI
2N2516	SCA	169- 27
	SES	SSI
2N2517	SES	168-102
		SSI
2N2518	SCA	169- 12
	SES	SSI
2N2519	SCA	169- 29
	SES	SSI
2N2520	SCA	169- 7
	SES	SSI
2N2521	SCA	169- 8
	SES	SSI
2N2522	SCA	169- 9
	SES	SSI
2N2523	SCA	169- 15
	SES	SPE
		SSI
2N2524	NSC	169- 16
	SCA	SES
	SSI	TADI
2N2525	SCA	248- 36
	SES	SSI
2N2526	CEN	207- 28
	CSR	GPD 327- 71
	GTC	IDI
	LTE	SES
2N2527	CEN	327- 72
	CSR	GPD 207- 29
	GTC	LTE
	SES	SPE
2N2528	AMR	207- 30
	CEN	CSR 327- 73

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TYPE No.	MFRS	Pg&Line
2N2528		
(cont.)	GPD	
	GTC	LTE
	SES	SPE
		SST
JAN2N2528	none	325- 47
		207- 31
2N2529	SPE	145- 12
	STI	
2N2530	STI	145- 20
2N2531	STI	145- 28
2N2532	STI	145- 33
2N2533	STI	145- 21
2N2534	STI	145- 36
2N2537	CRI	185- 63
	CSR	ETC 297- 71
	IDC	IDI
	NASB	NJS
	SCA	♦SES
	SPE	SSI
	SST	STI
	TADI	♦TII
	TIID	TIIF
2N2538	CRI	297- 72
	CSR	ETC 185- 64
	IDC	IDI
	NASB	NJS
	SCA	♦SES
	SSI	SST
	TADI	♦TII
	TIIB	TIID
		TIIF
2N2539	CSI	174- 19
	♦ETC	IDI 297- 73
	MEHK	NJS
	SCA	♦SES
	SSI	TADI
	♦TII	TIIB
	TIID	TIIF
2N2540	CRI	297- 74
	CSR	♦ETC 174- 20
	IDI	NJS
	SCA	♦SES
	SSI	STI
	TADI	♦TII
	TIIB	TIID
		TIIF
2N2541	CEN	115- 18
	CSR	IDC 293-106
	IDI	SSI
		STI
2N2551	IDI	133- 80
	SCA	SES
	SLD	SPE
	SST	STI
2N2552	CRI	203- 61
	CSR	♦GPD
	GTC	LTE
	♦SES	SLD
	SPE	SST
	♦STC	TIID
2N2553	CRI	203- 62
	♦GPD	GTC
	LTE	♦SES
	SLD	SPE
	SST	♦STC
		TIID
JAN2N2553	GPD	117- 62
	STC	
2N2554	CRI	203- 63
	CSR	♦GPD
	GTC	LTE
	♦SES	SLD
	SST	♦STC
	STI	TIID
2N2555	♦GPD	203- 64
	LTE	♦SES
	SLD	♦STC
	STI	TIID
JAN2N2555	GPD	117- 63
	STC	
2N2556	CRI	203- 65
	CSR	♦GPD
	GTC	LTE
	♦SES	SLD
	SST	♦STC
	STI	TIID
2N2557	CSR	203- 66
	♦GPD	GTC
	LTE	♦SES
	SLD	SPE
	SST	♦STC
	STI	TIID
JAN2N2557	GPD	202- 47
	STC	
2N2558	CRI	203- 67
	CSR	♦GPD
	GTC	LTE
	♦SES	SLD
	SST	♦STC
	STI	TIID
2N2559	CRI	203- 68
	CSR	♦GPD
	LTE	♦SES
	SLD	SST
	♦STC	STI
		TIID
JAN2N2559	GPD	202- 48
	STC	
2N2560	CRI	203- 69
	CSR	♦GPD
	GTC	LTE
	SEI	♦SES

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TYPE No.	MFRS	Pg&Line
2N2722		
(cont.)	SPE	
	SSI	SST
		TADI
2N2723	AMR	330-108
	DIT	GTC
	♦MOTA	RTN
	SCA	SSI
		TADI
2N2724	AMR	331- 2
	DIT	IDC
	RTN	SCA
	SSI	TADI
2N2725	AMR	330-107
	DIT	♦FSC
	RTN	SCA
	SSI	TADI
2N2726	CEN	236- 79
	CSR	♦GDC
	GTC	IDI
	KER	SES
	SPE	SST
	STC	STI
		TEC
2N2727	CEC	236- 80
	CEN	CSR
	♦GDC	GTC
	IDC	IDI
	KER	SES
	SSI	STC
	STI	TEC
2N2728	CEN	329- 39
	CSR	GPD
	IDC	LTE
		NJS
2N2729	SCA	161- 51
	SSI	SST
		TADI
2N2730	CEN	211- 19
	CSR	♦GPD
	LTE	♦SES
	SST	STC
2N2731	CEN	328- 53
	CSR	♦GPD
	LTE	♦SES
	SST	STC
2N2732	CEN	211- 21
	CSR	♦GPD
	LTE	♦SES
	SST	STC
2N2733	♦GPD	328- 55
	♦SES	SST
2N2734	♦GPD	210- 51
	♦SES	SST
2N2735	♦GPD	210- 52
	♦SES	SST
2N2736	♦GPD	328- 56
	♦SES	SST
2N2737	♦GPD	328- 57
	♦SES	SST
2N2738	♦GPD	210- 53
	♦SES	SST
2N2739	KER	326- 3
	SES	♦SPC
	SSI	STC
2N2740	KER	283- 9
	SES	♦SPC
	SPE	SSI
		STC
2N2741	KER	326- 5
	SES	♦SPC
	SSI	STC
2N2742	KER	283- 11
	SES	♦SPC
	SSI	STC
2N2743	KER	326- 7
	SSI	STC
2N2744	KER	283- 12
	SSI	STC
2N2745	KER	283- 13
	SES	♦SPC
	SSI	STC
2N2746	KER	326- 8
	SES	♦SPC
	SSI	STC
2N2747	KER	326- 9
	SES	♦SPC
	SSI	STC
2N2748	KER	283- 14
	SES	♦SPC
	SSI	STC
2N2749	KER	326- 10
		283- 15
		283- 16
2N2750	KER	326- 11
	SPE	283- 17
2N2751	KER	326- 12
	SES	♦SPC
	SSI	STC
2N2752	KER	283- 18
	SES	♦SPC
	SSI	STC
2N2753	KER	283- 19
	SES	♦SPC
	SSI	STC
2N2754	KER	326- 13
	SES	SSI
		STC
2N2755	KER	326- 14
	SSI	283- 20
2N2756	KER	283- 21
	SSI	326-102
2N2757	Δ♦WESY	326- 15
	CRI	GTC
cont.next col.		283- 26

TYPE No.	MFRS	Pg&Line
2N2757		
(cont.)	IDI	
	KER	PTI
	SES	♦SPC
	SSI	♦STC
2N2758	Δ♦WESY	283- 27
	GTC	IDI 326- 16
	KER	PTI
	SES	♦SPC
	SSI	♦STC
2N2759	Δ♦WESY	326- 17
	CRI	IDI 283- 28
	KER	PTI
	SES	♦SPC
	SSI	♦STC
2N2760	Δ♦WESY	283- 29
	CRI	IDI 326- 18
	KER	PTI
	SES	♦SPC
	SSI	♦STC
2N2761	Δ♦WESY	326- 19
	IDI	KER 283- 30
	SES	♦SPC
	SSI	♦STC
2N2762	IDI	283- 31
	KER	SSI 326- 20
2N2763	Δ♦WESY	326- 21
	CRI	GTC 283- 32
	IDI	KER
	PTI	SES
	♦SPC	SSI
		♦STC
2N2764	Δ♦WESY	283- 33
	GTC	IDI 326- 22
	KER	PTI
	SES	♦SPC
	SSI	♦STC
2N2765	Δ♦WESY	326- 23
	CRI	IDI 283- 34
	KER	PTI
	SES	♦SPC
	SSI	♦STC
2N2766	Δ♦WESY	283- 35
	IDI	PTI 326- 24
	SES	♦SPC
	SSI	♦STC
2N2767	IDI	326- 25
	KER	SSI 283- 36
2N2768	IDI	283- 37
	KER	SSI 326- 26
2N2769	Δ♦WESY	326-107
	CRI	GTC 283- 38
	IDI	KER
	PTI	SES
	♦SPC	SSI
		♦STC
2N2770	Δ♦WESY	283- 39
	GTC	IDI 326-108
	KER	PTI
	SES	♦SPC
	SSI	♦STC
2N2771	Δ♦WESY	326-109
	IDI	KER 283- 40
	PTI	SES
	♦SPC	SSI
		♦STC
2N2772	Δ♦WESY	283- 41
	IDI	KER 326-110
	PTI	SES
	♦SPC	SSI
		STC
2N2773	IDI	327- 1
	KER	SSI 283- 42
2N2774	IDI	283- 43
	KER	SSI 327- 2
2N2775	Δ♦WESY	327- 36
	CRI	GTC 283- 44
	IDI	KER
	PTI	SES
	♦SPC	SSI
		STC
2N2776	Δ♦WESY	283- 45
	GTC	IDI 327- 37
	KER	PTI
	SES	♦SPC
	SSI	STC
2N2777	Δ♦WESY	327- 38
	IDI	KER 283- 46
	PTI	SES
	♦SPC	SSI
		STC
2N2778	Δ♦WESY	283- 47
	CRI	GTC 327- 39
	IDI	KER
	PTI	SES
	♦SPC	SSI
		STC
2N2779	KER	327- 40
	SSI	283- 48
2N2780	KER	283- 49
	SSI	327- 41
2N2781	Δ♦TRW	247- 49
	GTC	IDI
	LTTF	SCA
	SES	SSI
2N2782	Δ♦TRW	247- 50
	GTC	IDI
	SCA	SSI
2N2783	Δ♦TRW	247- 51
	SCA	SSI
2N2784	CEN	289- 19
	CSR	GTC 161- 55
	IDC	IDI
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N2784		
(cont.)	SCA	
	♦SES	SPE
	SSI	SST
	STI	♦TEC
2N2784/46	SCA	170- 15
		289- 20
2N2785	AMR	347- 34
	GTC	♦MOTA
	RTN	SSI
2N2786	SCA	202- 55
	SPE	
2N2787	ETC	185- 65
	IDI	NJS 300- 4
	SCA	SSI
	STI	
2N2788	CSI	300- 5
	ETC	IDI 185- 66
	NJS	SCA
	SSI	STI
2N2789	CRI	185- 67
	CSI	♦ETC 300- 6
	IDI	NJS
	SCA	SSI
2N2789S	MOTA	300- 7
		185- 68
2N2790	IDI	174- 21
	SCA	SSI 300- 8
		STR
2N2791	♦ETC	300- 9
	IDI	NJS 174- 22
	PPC	SCA
	SSI	STR
2N2792	♦ETC	174- 23
	IDI	NJS 300- 10
	SCA	SSI
		STR
2N2793	CEN	211- 22
2N2795	IDC	106- 53
	IDI	289- 97
2N2796	IDC	290-102
	IDI	SPE 106- 54
		STI
2N2797	STI	106- 47
		292- 14
2N2800	CEN	298- 38
	CRI	CSI 141- 96
	CSR	♦DEF
	GTC	IDI
	NASB	NTR
	♦RTN	SCA
	SDE	SEI
	♦SES	SSI
	SST	STI
		TADI
2N2800/46	SCA	135- 51
		298- 39
2N2800S	MOTA	298- 40
		141- 97
2N2801	CEN	141- 98
	CRI	CSI 298- 41
	CSR	♦DEF
	GTC	IDI
	ITT	NASB
	NTR	♦RTN
	SCA	SDE
	SEI	♦SES
	SPE	SSI
	SST	STI
	TADI	TIIF
2N2801/46	SCA	135- 52
2N2802	Δ♦TII	124-106
	RTN	SEI 339- 96
	SSI	STI
	TADI	TIIB
		TIIF
2N2803	Δ♦TII	339- 97
	RTN	SPE 124-107
	SSI	STI
	TADI	TIIB
		TIIF
2N2804	Δ♦TII	124-108
	AMR	RTN 347- 35
	SSI	STI
	TADI	TIIB
		TIIF
2N2805	Δ♦TII	339- 98
	RTN	SSI 124-109
	STI	TADI
	TIIB	TIIF
2N2806	Δ♦TII	124-110
	CRI	RTN 339- 99
	SSI	STI
	TADI	TIIB
		TIIF
2N2807	Δ♦TII	347- 36
	CRI	RTN 125- 1
	♦SES	SPE
	SSI	STI
	TADI	TIIB
		TIIF
2N2811	ΔSOD	261- 4
	♦AMC	CRI
	CSR	GSE
	GTC	IDI
	♦KER	PPC
	SCA	SDE
	SES	♦SSI
	♦STC	TEC
	TRW	♦UNI
2N2812	ΔSOD	261- 5
	♦AMC	CRI
2N2826	GPD	202- 83
	SES	

TYPE No.	MFRS	Pg&Line
2N2812		
(cont.)	GSE	
	GTC	IDI
	♦KER	PPC
	SCA	SDE
	SES	♦SSI
	♦STC	TEC
	TRW	♦UNI
JAN2N2812	AMC	263- 96
	TEC	314- 84
2N2813	ΔSOD	261- 6
	♦AMC	AMR
	CRI	CSR
	GSE	GTC
	IDI	♦KER
	PPC	SCA
	SDE	SES
	♦SSI	♦STC
	TEC	TRW
		♦UNI
2N2814	ΔSOD	261- 7
	♦AMC	CRI
	CSR	GSE
	GTC	IDI
	♦KER	PPC
	SCA	SDE
	SES	SLD
	♦SSI	SST
	♦STC	TEC
	TRW	♦UNI
JAN2N2814	AMC	263- 97
	TEC	314- 85
2N2815	AMC	277- 96
	CRI	CSR
	♦ETC	GSE
	GTC	IDI
	♦KER	MISI
	NJS	NPC
	PTI	SCA
	♦SES	♦SPC
	SSI	THCF
2N2817	AMC	277- 98
	CRI	ETC
	GSE	IDI
	♦KER	MISI
	NJS	NPC
	PTI	♦SES
	♦SPC	SSI
		THCF
2N2819	AMC	277-100
	GSE	GTC
	IDI	♦KER
	MISI	NPC
	PTI	♦SES
	♦SPC	SSI
		THCF
2N2820	AMC	277-101
	GSE	GTC
	IDI	♦KER
	MISI	NPC
	PTI	♦SES
	♦SPC	SSI
		THCF
2N2821	AMC	277-102
	GSE	IDI
	♦KER	MISI
	NPC	PTI
	♦SES	♦SPC
	SSI	THCF
2N2822	AMC	277-103
	GSE	IDI
	♦KER	MISI
	NPC	PTI
	♦SES	♦SPC
	SSI	THCF
2N2823	AMC	277-104
	GSE	GTC
	IDI	♦KER
	MISI	NPC
	PTI	♦SES
	♦SPC	SSI
		THCF
2N2824	AMC	277-105
	GSE	GTC
	IDI	♦KER
	MISI	NPC
	PTI	♦SES
	♦SPC	SSI
		THCF
2N2825	AMC	277-106
	GSE	IDI
	♦KER	MISI
	NPC	PTI
	♦SES	♦SPC
	SSI	THCF

TYPE No.	MFRS	Pg&Line
2N2828	AMC	255- 4
	CSR	GTC
	IDI	PPC
	SCA	♦SES
	SLD	♦SPC
	SSI	SST
		UNI
2N2829	AMC	257- 84
	CSR	GTC
	IDI	PPC
	LTE	SES
		SPE
2N2832	CEN	207- 33
	CSR	GPD 325- 55
	LTE	SES
		SPE
2N2833	CEN	325- 56
	CSR	GPD 207- 34
	LTE	SES
		SPE
2N2834	CEC	207- 35
	CEN	CSR 325- 57
	GPD	IDC
	LTE	SES
		SPE
JAN2N2834	none	325- 58
		207- 36
2N2835	CEN	203- 27
	GPD	PHIC
2N2836	CEN	205- 2
	CSR	GPD
	LTE	PHIC
		SPE
2N2837	CEN	137- 1
	CSR	♦DEF 298- 42
	DIT	ETC
	GTC	IDI
	NASB	NJS
	NTR	♦RTN
	SCA	SDE
	SEI	♦SES
	SSI	SST
	STI	TADI
		UPI
2N2838	CEN	298- 43
	CSR	♦DEF 137- 2
	ETC	GTC
	IDI	ITT
	NASB	NJS
	NTR	♦RTN
	SCA	SDE
	♦SES	SLD
	SSI	SST
	STI	TADI
		UPI
2N2840	Δ♦GESY	345- 22
	CEN	SES
2N2841	AMX	188- 92
	INL	NASB
		TSC
2N2842	AMX	188- 93
	INL	NASB
	SODI	SPE
		TSC
2N2843	Δ♦SIX	188- 94
	AMX	INL
	NASB	♦SODI
	SPE	TSC
2N2844	Δ♦SIX	188- 95
	AMX	INL
	NASB	♦SODI
		TSC
2N2845	CEN	166-110
	CSR	ETC 297- 75
	GTC	IDI
	NASB	NJS
	♦SES	SGAI
	SSI	STI
	TADI	TIIF
2N2846	CEN	297- 76
	CSI	CSR 185- 69
	ETC	GTC
	IDI	NASB
	NJS	NPC
	♦SES	SGAI
	SSI	SST
	STI	TADI
		TIIF
2N2847	CEN	167- 1
	CSR	ETC 293- 23
	GTC	IDI
	NASB	NJS
	SCA	♦SES
	SGAI	SSI
	STI	TADI
		TIIF
2N2848	AMR	293- 24
	CEN	CSI 185- 70
	CSR	ETC
	GTC	IDC
	IDI	NASB
	NJS	SCA
	♦SES	SGAI
	SSI	STI
	TADI	TIIF
2N2849	Δ♦UNI	186- 50
	AMC	CSR 306- 63
	GSE	IDI
	SCA	SEI
	♦SES	SSI
		TRW
2N2849-1	AMC	306- 64
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TYPE No.	MFRS	Pg&Line
2N2905A		
(cont.)	TIID	
TIIF	UPI	
	♦VALG	
JAN2N2905A	FSC	298 - 52
ITT	MOTA	138 - 79
NSC	RTN	
SOD	TEC	
	TII	
2N2906	△♦MOTA	135 - 64
♦ALGG	AMR	297 - 1
BELI	CEN	
CRI	CSR	
♦DEF	DIT	
ELMA	ESE	
ETC	♦FSC	
GTC	IDC	
IDI	♦INTG	
ITT	ITTB	
♦MEHK	MISI	
♦MULB	NASB	
NJS	NPC	
♦NSC	♦NTLB	
NTR	♦PHIC	
♦PHIN	♦RTCF	
♦RTN	SCA	
SDE	SEI	
♦SES	SGAI	
SLD	SPE	
♦SPR	SST	
STI	STR	
TADI	♦TEC	
THCF	♦TII	
TIIB	TIID	
TIIF	TSI	
UPI	♦VALG	
JAN2N2906	FSC	298 - 53
ITT	MOTA	135 - 65
NSC	RTN	
TEC	TII	
2N2906A	△♦MOTA	135 - 66
♦ALGG	BELI	297 - 2
CEC	CEN	
CRI	CSR	
♦DEF	DIT	
ELMA	ESE	
♦FSC	GTC	
IDC	IDI	
♦INTG	ITT	
ITTB	MEHK	
MISI	♦MULB	
NASB	NJS	
NPC	♦NSC	
♦NTLB	NTR	
♦PHIC	♦PHIN	
♦RTCF	♦RTN	
SCA	SDE	
SEI	♦SES	
SGAI	SLD	
SPE	♦SPR	
SST	STI	
STR	TADI	
♦TEC	THCF	
♦TII	TIIB	
TIID	TIIF	
UPI	♦VALG	
JAN2N2906A	FSC	298 - 54
ITT	MOTA	135 - 67
NSC	RTN	
TEC	TII	
2N2907	△♦MOTA	135 - 68
♦ALGG	AMR	297 - 3
BELI	CEN	
CRI	CSR	
♦DEF	DIT	
ELMA	ESE	
♦ETC	♦FSC	
GTC	IDC	
IDI	♦INTG	
ITT	ITTB	
♦MEHK	MISI	
♦MULB	NASB	
NJS	NPC	
♦NSC	♦NTLB	
NTR	♦PHIC	
♦PHIN	♦RTCF	
♦RTN	SCA	
SDE	SEI	
♦SES	SGAI	
SLD	SPE	
♦SPR	SST	
STI	STR	
TADI	♦TEC	
THCF	♦TII	
TIIB	TIID	
TIIF	UPI	
	♦VALG	
JAN2N2907	FSC	298 - 55
ITT	MOTA	135 - 69
NSC	RTN	
SOD	TEC	
	TII	
2N2907A	♦ALGG	135 - 70
BELI	CEC	297 - 4
CEN	CRI	
CSR	♦DEF	
DIT	ELMA	
ESE	♦FSC	
GTC	IDC	
IDI	♦INTG	
ITT	ITTB	
MEHK	MISI	
♦MULB	NASB	
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N2907A		
(cont.)	NJS	
NPC	♦NSC	
♦NTLB	NTR	
♦PHIC	♦PHIN	
♦RTCF	♦RTN	
SCA	SDE	
SEI	♦SES	
SGAI	SLD	
SPE	♦SPR	
SST	STI	
STR	TADI	
♦TEC	THCF	
♦TII	TIIB	
TIID	TIIF	
UPI	♦VALG	
JAN2N2907A	FSC	298 - 56
ITT	MOTA	135 - 71
NSC	RTN	
SOD	TEC	
	TII	
2N2908	STI	263 - 13
2N2909	IDC	169 - 10
SCA	SPE	
	SSI	
2N2910	SCA	156-102
SES	SPE	339-102
SSI	STI	
TADI	UPI	
2N2911	△♦STC	241 - 13
AMC	IDI	
KER	SCA	
SDE	♦SES	
♦SPC	SSI	
TADI	UPI	
JAN2N2911	none	245 - 79
		325 - 12
2N2912	DIT	324 - 23
	GPD	207 - 37
2N2913	△♦FSC	156-106
AMR	CRI	347 - 37
CSR	DIT	
GDC	IDI	
INL	♦MEHK	
♦MOTA	♦NSC	
♦RTN	SCA	
♦SES	SGAI	
SLD	SPE	
SST	STI	
TADI	♦TII	
TIIB	TIID	
TIIF	UPI	
2N2914	△♦FSC	347 - 38
CRI	CSR	156-107
DIT	GDC	
IDI	INL	
♦MEHK	♦MOTA	
♦NSC	♦RTN	
SCA	SES	
SGAI	SLD	
SST	STI	
TADI	♦TII	
TIIB	TIID	
TIIF	UPI	
2N2915	△♦FSC	156-108
CRI	CSR	339-103
DIT	GDC	
IDI	INL	
♦MEHK	♦MOTA	
NSC	♦RTN	
SCA	SES	
SGAI	SLD	
SPE	SST	
SST	STI	
STI	TADI	
TADI	♦TII	
TIIB	TIID	
TIIF	UPI	
2N2915A	GDC	339-104
GTC	IDI	156-109
INL	NSC	
RTN	SCA	
♦SES	SLD	
SST	STI	
TADI	♦TII	
2N2916	CRI	156-110
CSR	DIT	339-105
GDC	IDI	
INL	♦MEHK	
♦MOTA	♦NSC	
♦RTN	SCA	
SES	SGAI	
SLD	SPE	
SST	STI	
TADI	♦TII	
TIIB	TIID	
TIIF	UPI	
2N2916A	GDC	339-106
GTC	IDI	157 - 1
INL	NSC	
RTN	SCA	
♦SES	SLD	
SST	STI	
TADI	♦TII	
2N2917	△♦FSC	157 - 2
CRI	CSR	339-107
DIT	GDC	
IDI	INL	
♦MOTA	♦NSC	
♦RTN	SCA	
SES	SGAI	
SLD	SPE	
SST	STI	
TADI	♦TII	
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N2917		
(cont.)	TIIB	
TIID	TIIF	
	UPI	
2N2918	△♦FSC	339-108
CEC	CRI	157 - 3
CSR	DIT	
GDC	IDI	
INL	♦MOTA	
♦NSC	♦RTN	
SCA	SES	
SGAI	SLD	
SPE	SST	
STI	TADI	
♦TII	TIIB	
TIID	TIIF	
	UPI	
2N2919	CRI	157 - 4
CSR	DIT	339-109
GDC	IDI	
INL	♦MEHK	
♦MOTA	♦NSC	
♦RTN	SCA	
SES	SGAI	
SLD	SPE	
STI	TADI	
♦TII	TIIB	
TIID	TIIF	
	UPI	
JAN2N2919	FSC	339-110
		157 - 5
2N2919A	CEC	157 - 6
GDC	GTC	340 - 1
IDI	INL	
NSC	RTN	
SCA	♦SES	
SLD	SST	
STI	TADI	
	♦TII	
2N2920	△♦FSC	340 - 2
CRI	CSR	157 - 7
DIT	GDC	
IDI	INL	
♦MEHK	♦MOTA	
♦NSC	♦RTN	
SCA	SES	
SGAI	SLD	
SPE	SST	
STI	STR	
TADI	♦TII	
TIIB	TIID	
TIIF	UPI	
JAN2N2920	FSC	157 - 8
NSC	RTN	340 - 3
2N2920A	△FSC	340 - 4
CEC	CRI	157 - 9
CSR	GDC	
GTC	IDI	
INL	NSC	
RTN	SCA	
♦SES	SGAI	
SLD	SPE	
SST	STI	
STR	TADI	
	♦TII	
2N2921	MISI	147 - 88
NPC	♦SES	
THCF	UPI	
2N2922	MISI	147 - 89
NPC	♦SES	
THCF	UPI	
2N2923	△♦GESY	147 - 90
CEC	CEN	
CSR	IDC	
IDI	MEHK	
MISI	NASB	
NPC	NSC	
NTR	♦SES	
SLD	SPE	
♦SPR	SST	
THCF	UPI	
2N2925	△♦GESY	147 - 92
CEC	CEN	
CSR	IDC	
IDI	MEHK	
MISI	NASB	
NPC	NSC	
NTR	♦SES	
SLD	SPE	
♦SPR	SST	
THCF	UPI	
2N2926	△♦GESY	147 - 93
CEN	CRI	
CSR	IDC	
MEHK	MISI	
NASB	NPC	
NSC	NTR	
♦SES	SLD	
SPE	♦SPR	
SST	THCF	
	UPI	
2N2927	CEN	141 - 69
CSI	CSR	302 - 61
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N2927		
(cont.)	ETC	
GTC	IDI	
SCA	♦SES	
SGAI	SST	
TADI	TEC	
2N2929	CEN	117 - 57
	IDI	
2N2930	CEN	116 - 9
CSR	ETC	302 - 47
	IDI	
2N2936	INL	340 - 5
♦RTN	♦SES	
STI	TADI	
2N2937	INL	340 - 6
♦RTN	♦SES	
STI	TADI	
	UPI	
2N2938	ETC	295 - 11
FERB	NJS	161 - 16
2N2939	ETC	185 - 15
NJS	SSI	
2N2940	ETC	185 - 16
NJS	SSI	
	TEC	
2N2941	SSI	185 - 17
	TEC	
2N2942	STI	112 - 45
		292 - 15
2N2944	△♦TCY	308 - 5
CRI	CSR	134 - 67
IDC	♦MOTA	
SDE	♦SES	
SLD	SPE	
♦SPR	SST	
TADI	♦TII	
TIIB	TIID	
TIIF	TSI	
2N2944A	△♦TII	134 - 68
SDE	SLD	346 - 10
SST	TADI	
♦TCY	TIIF	
	TSI	
JAN2N2944A	TCY	346 - 11
	TII	134 - 69
2N2945	△♦TCY	134 - 60
CSR	IDC	309 - 67
♦MOTA	♦RTN	
SDE	♦SES	
SLD	SPE	
♦SPR	SSI	
SST	TADI	
♦TII	TIIB	
TIIF	TSI	
2N2945A	△♦TII	134 - 61
CEC	♦MOTA	346 - 12
RTN	SDE	
SLD	SSI	
SST	TADI	
♦TCY	TIIF	
	TSI	
JAN2N2945A	RTN	346 - 13
TCY	TII	134 - 62
2N2946	△♦TCY	134 - 48
CRI	CSR	311 - 3
IDC	♦MOTA	
♦RTN	SDE	
♦SES	SLD	
SPE	♦SPR	
SSI	SST	
TADI	♦TII	
TIIB	TIIF	
	TSI	
2N2946A	△♦TII	134 - 49
CEC	♦MOTA	346 - 14
RTN	SDE	
SEI	SLD	
SSI	SST	
TADI	♦TCY	
TIIF	TSI	
JAN2N2946A	RTN	346 - 15
TCY	TII	134 - 50
2N2947	△MOTA	252 - 32
IDI	KER	
SCA	SDE	
	SSI	
2N2948	△♦MOTA	251 - 76
IDI	KER	
SCA	SDE	
	SSI	
2N2949	△♦MOTA	239 - 46
GTC	SCA	
2N2950	△♦MOTA	239 - 47
GTC	SCA	
	SSI	
2N2951	△MOTA	234 - 22
CEN	CSI	
CSR	ETC	
GTC	IDI	
NASB	NJS	
SCA	♦SES	
SPR	SSI	
TADI	TIIF	
2N2952	CEN	233 - 33
CSR	ETC	
GTC	NASB	
NJS	SCA	
♦SES	SPR	
	SSI	
2N2953	CEN	108 - 67
SPE	SST	
	STI	
2N2955	IDI	112 - 48
SPE	SSI	297 - 5

TYPE No.	MFRS	Pg&Line
2N2956	IDI	294 - 89
SPE	SSI	112 - 89
	STI	
2N2957	IDI	112 - 93
SPE	SSI	293 - 48
2N2958	CEN	302 - 72
CSR	♦DEF	178 - 21
GTC	IDC	
IDI	NASB	
NTR	RTN	
SCA	SDE	
♦SES	SPE	
♦SPR	SST	
STI	TADI	
	TEC	
2N2959	△MOTA	178 - 22
CEN	CSR	302 - 73
♦DEF	ETC	
GTC	IDC	
IDI	NASB	
NJS	NTR	
RTN	SCA	
SDE	♦SES	
SGAI	SPE	
♦SPR	SST	
STI	TADI	
	TEC	
2N2960	CEN	302 - 74
CSR	♦DEF	178 - 23
IDI	NASB	
NTR	RTN	
SDE	♦SES	
TADI	TEC	
2N2961	CEN	178 - 24
CSR	♦DEF	302 - 75
NASB	NTR	
RTN	SDE	
♦SES	SPE	
SSI	TADI	
	TEC	
2N2963	STI	117 - 24
		355 - 93
2N2964	STI	355 - 94
		117 - 25
2N2965	STI	117 - 26
		355 - 95
2N2968	IDC	338 - 23
SCA	♦SES	
SSI	STI	
2N2969	IDC	338 - 24
SCA	♦SES	
SPE	SSI	
	STI	
2N2970	IDC	338 - 25
SCA	♦SES	
SSI	STI	
2N2971	IDC	338 - 26
SCA	♦SES	
	STI	
2N2972	GDC	153 - 72
GTC	IDI	
♦MEHK	NSC	
♦RTN	SES	
SLD	SST	
TADI	♦TII	
TIIF	UPI	
2N2973	GDC	153 - 73
GTC	IDI	
♦MEHK	NSC	
♦RTN	SES	
SLD	SST	
TADI	♦TII	
TIIF	UPI	
2N2974	GDC	153 - 74
GTC	IDI	340 - 7
♦MEHK	NSC	
♦RTN	♦SES	
SLD	SST	
TADI	♦TII	
TIIF	UPI	
2N2975	CRI	340 - 8
GDC	GTC	153 - 75
IDI	♦MEHK	
NSC	♦RTN	
SES	SLD	
SPE	SST	
TADI	♦TII	
TIIF	UPI	
2N2976	CRI	153 - 76
CSR	GDC	340 - 9
GTC	IDI	
MEHK	NSC	
♦RTN	♦SES	
SLD	SST	
TADI	♦TII	
TIIF	UPI	
2N2977	CSR	340 - 10
GDC	GTC	153 - 77
IDI	MEHK	
NSC	♦RTN	
♦SES	SLD	
SST	TADI	
♦TII	TIIF	
	UPI	
2N2978	CRI	153 - 78
CSR	GDC	340 - 11
GTC	IDI	
♦MEHK	NSC	
♦RTN	♦SES	
SLD	SST	
TADI	♦TII	
TIIF	UPI	
2N2979	CRI	340 - 12
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TYPE No.	MFRS	Pg&Line
2N3070	ΔTSC	197 - 68
	AMX	CEC
	CEN	CRI
	CSR	INL
	MEHK	NASB
	♦NSC	SGAI
	♦SODI	SPE
	STR	TADI
		TIID
2N3071	ΔTSC	197 - 69
	AMX	CEN
	INL	MEHK
	NASB	NSC
	♦SODI	SPE
	STR	TADI
		TIID
2N3072	CRI	141-100
	CSI	CSR
	♦DEF	ETC
	GTC	IDI
	MEHK	NASB
	NJS	NSC
	NTR	RTN
	SCA	SDE
	♦SES	TADI
		TEC
2N3073	AMR	296 - 88
	CRI	CSR
	♦DEF	ETC
	GTC	IDI
	MEHK	♦MOTA
	NASB	NJS
	NSC	NTR
	RTN	SCA
	SDE	♦SES
	SGAI	TADI
		TEC
2N3074	SPE	109 - 80
		STI
2N3075	STI	109 - 81
2N3076	Δ♦TRW	274 - 97
	CRI	SCA
		SSI
2N3077	CRI	166 - 47
	IDI	♦SCA
	♦SES	SSI
2N3078	CRI	166 - 48
	IDI	♦SCA
	♦SES	SSI
2N3079	Δ♦DEL	326 - 93
	CRI	KER
	SLD	♦SPC
	SPE	SST
2N3080	Δ♦DEL	280 - 92
	KER	SLD
	♦SPC	SST
2N3081	♦DEF	138 - 62
	GTC	IDI
	NASB	NTR
	RTN	SCA
	SDE	♦SES
		TADI
2N3084	INL	200 - 20
2N3085	Δ♦TCY	200 - 21
	INL	SODI
		TSI
2N3086	INL	200 - 22
2N3087	Δ♦TCY	200 - 23
	INL	SODI
		TSI
2N3088	Δ♦TCY	200 - 24
	INL	SPE
2N3088A	Δ♦TCY	200 - 25
		INL
2N3089	Δ♦TCY	200 - 26
	CEN	CRI
	INL	MEHK
	SODI	TSI
2N3089A	Δ♦TCY	200 - 27
	CEN	INL
		TSI
2N3107	CEN	184 - 18
	CRI	CSR
	♦DEF	♦GDC
	GTC	IDI
	ITT	MEHK
	NASB	NSC
	NTR	RTN
	SCA	SDE
	♦SES	SGAI
	SLD	SPE
	SST	STI
	TADI	TEC
		TIIF
2N3108	CEN	309 - 17
	CRI	CSR
	♦DEF	♦GDC
	GTC	IDI
	ITT	MEHK
	NASB	NSC
	NTR	RTN
	SCA	SDE
	♦SES	SGAI
	SLD	SPE
	SST	TADI
	TEC	TIIF
2N3109	CEN	184 - 19
	CRI	CSR
	♦DEF	♦GDC
	GTC	IDI
	ITT	MEHK
	NASB	NSC
	NTR	RTN

cont.next col.

TYPE No.	MFRS	Pg&Line
2N3109		
(cont.)	SCA	
	SDE	♦SES
	SGAI	SLD
	SST	TADI
	TEC	TIIF
2N3110	CEN	309 - 18
	CRI	CSR
	♦DEF	♦GDC
	GTC	IDI
	ITT	MEHK
	MOTA	NASB
	NSC	NTR
	RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SST	TADI
	TEC	TIIF
2N3112	CEC	188 - 96
2N3114	Δ♦FSC	183 - 12
	CEC	CEN
	CRI	CSR
	♦GDC	GTC
	IDI	MOTA
	NASB	NSC
	SCA	SEI
	SGAI	SLD
	SPE	SSI
	SST	TADI
	TEC	♦TII
	TIIB	TIID
		TIIF
2N3115	CEN	169 - 78
	CRI	CSR
	♦DEF	ETC
	GTC	IDI
	ITT	MEHK
	NASB	NJS
	NSC	NTR
	RTN	SCA
	SDE	♦SES
	SPR	SST
	STI	TADI
	TEC	
2N3116	CEN	302 - 77
	CRI	CSR
	♦DEF	ETC
	GTC	IDI
	ITT	MEHK
	NASB	NJS
	NSC	NTR
	RTN	SCA
	SDE	♦SES
	SPE	SPR
	SSI	SST
	STI	TADI
	TEC	UPI
2N3117	Δ♦FSC	166 - 49
	CEN	CRI
	CSR	♦DEF
	GTC	IDI
	♦ITT	MEHK
	NASB	NSC
	NTR	RTN
	SCA	SDE
	♦SES	SGAI
	SLD	SPE
	SSI	SST
	STI	TADI
	♦TEC	♦TII
	TIID	TIIF
2N3118	Δ♦RCA	235 - 44
	CSI	CSR
	IDI	KER
	SCA	♦SES
	SPE	SSI
		STI
2N3119	Δ♦RCA	235 - 45
	CSR	♦GDC
	IDI	KER
	SCA	♦SES
	SPE	SSI
		STI
2N3120	CEN	296 - 89
	CRI	CSI
	CSR	♦DEF
	ETC	GTC
	IDI	MEHK
	NASB	NSC
	NTR	RTN
	SCA	SDE
	♦SES	SLD
	SST	TADI
		TEC
2N3121	CEN	132 - 67
	CRI	CSR
	♦DEF	ETC
	GTC	IDI
	MEHK	NASB
	NJS	NSC
	NTR	RTN
	SCA	SDE
	♦SES	SGAI
	SLD	SST
	TADI	TEC
2N3122	ΔRTN	183 - 90
	CEN	CSR
	♦DEF	NASB
	NTR	SDE
	♦SES	SSI
	TADI	TEC
2N3123	STI	186 - 8
2N3124	CEN	209 - 23
	CSR	GPD

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TYPE No.	MFRS	Pg&Line
2N3125	CEN	209 - 24
	CSR	GPD
		SPE
2N3126	CEN	209 - 25
	CSR	GPD
2N3127	GTC	108 - 48
	SEI	SPE
		SSI
JAN2N3127	none	108 - 49
2N3132	CEN	209 - 26
		329 - 30
2N3133	AMR	138 - 80
	CEN	CRI
	CSI	CSR
	♦DEF	ETC
	GTC	IDI
	MEHK	NASB
	NJS	♦NSC
	NTR	♦PHIN
	RTN	SCA
	SDE	♦SES
	SLD	SPE
	SPR	SSI
	SST	STI
	TADI	TEC
		UPI
2N3134	CEN	302 - 68
	CRI	CSI
	CSR	♦DEF
	ETC	GTC
	IDC	IDI
	ITT	MEHK
	NASB	NJS
	♦NSC	NTR
	PHIC	♦PHIN
	RTN	SCA
	SDE	♦SES
	SPE	SPR
	SSI	SST
	STI	TADI
	TEC	UPI
2N3135	CEN	135 - 72
	CRI	CSR
	♦DEF	♦ETC
	GTC	IDC
	IDI	MEHK
	NASB	NJS
	♦NSC	NTR
	RTN	SCA
	SDE	♦SES
	SLD	SPE
	SPR	SSI
	SST	STI
	TADI	TEC
		UPI
2N3136	CEN	302 - 70
	CRI	CSR
	♦DEF	♦ETC
	GTC	IDC
	IDI	MEHK
	NASB	NJS
	♦NSC	NTR
	RTN	SCA
	SDE	♦SES
	SPE	SPR
	SSI	SST
	STI	TADI
	TEC	UPI
2N3137	CRI	178 - 59
	CSR	♦DEF
	GTC	IDI
	LTTF	MISI
	NASB	♦NPC
	SCA	♦SES
	SGAI	SPE
	SSI	TADI
	THCF	TIC
		UPI
2N3138	CRI	249 - 19
	SCA	SSI
	♦TRW	UTS
2N3139	CRI	249 - 20
	♦GDC	SCA
	♦SES	SSI
		UTS
2N3140	SCA	249 - 21
	♦SES	SSI
		UTS
2N3141	CRI	249 - 22
	♦GDC	SCA
	♦SES	SSI
		UTS
2N3142	IDI	250 - 18
	SCA	♦SES
	SSI	♦TRW
		UTS
2N3143	IDI	250 - 19
	SCA	♦SES
	SSI	UTS
2N3144	IDI	250 - 20
	SCA	♦SES
	SSI	♦TRW
		UTS
2N3145	IDI	250 - 21
	SCA	♦SES
	SSI	UTS
2N3146	CEN	211 - 23
	CSR	GPD
	LTE	SLD
	SPE	SST
		STI
2N3147	CEN	211 - 24
	CSR	GPD

cont.next col.

TYPE No.	MFRS	Pg&Line
2N3147		
(cont.)	LTE	
	SLD	SST
		STI
2N3149	Δ♦STC	283 - 50
	AMC	CRI
	♦KER	PTI
	♦SES	SPC
	SSI	TEC
2N3150	Δ♦STC	283 - 51
	AMC	CRI
	♦KER	PTI
	♦SES	SPC
	SSI	TEC
2N3151	Δ♦STC	283 - 52
	AMC	CRI
	♦KER	PTI
	♦SES	SPC
	SSI	TEC
2N3152	AMR	235 - 72
	SCA	SPE
		STI
2N3153	IDI	346 - 16
	TADI	♦TCY
		TSI
2N3154	GPD	205 - 3
		♦STC
2N3155	GPD	205 - 4
		♦STC
2N3156	GPD	205 - 5
		♦STC
2N3157	GPD	205 - 6
		♦STC
2N3158	ETC	205 - 7
	GPD	NJS
		♦STC
2N3159	ETC	205 - 8
	GPD	NJS
		STC
2N3160	ETC	205 - 9
	GPD	NJS
		♦STC
2N3161	GPD	205 - 10
		♦STC
2N3163	AMC	224 - 39
	CRI	♦KER
	PPC	SEI
		SSI
2N3164	AMC	224 - 40
	PPC	SCA
		SSI
2N3165	AMC	224 - 41
	PPC	SSI
2N3166	AMC	224 - 42
	PPC	SCA
		SSI
2N3167	SSI	224 - 43
2N3168	SCA	224 - 44
		SSI
2N3169	SSI	224 - 45
2N3170	AMR	224 - 46
	SCA	SSI
2N3171	AMC	224 - 22
	CRI	CSR
	♦KER	SCA
	SES	SOD
	SSI	TEC
2N3172	AMC	224 - 23
	CSR	♦KER
	SCA	SES
	SOD	SSI
		TEC
2N3173	AMC	224 - 24
	CSR	♦KER
	SCA	SES
	SOD	SSI
		TEC
2N3174	AMC	224 - 25
	CRI	CSR
	♦KER	SCA
	SES	SOD
	SSI	TEC
2N3175	AMC	224 - 47
	♦KER	PPC
	SCA	SSI
2N3176	AMC	224 - 48
	♦KER	PPC
	SCA	SSI
2N3177	AMC	224 - 49
	♦KER	PPC
	SCA	SSI
2N3178	AMC	224 - 50
	♦KER	PPC
		SSI
2N3179	SSI	224 - 51
2N3180	SSI	224 - 52
2N3181	SCA	224 - 53
		SSI
2N3182	SSI	224 - 54
2N3183	AMC	224 - 26
	CRI	CSR
	♦KER	SCA
	SES	SOD
		SSI
2N3184	AMC	224 - 27
	CSR	♦KER
	SES	SOD
		SSI
2N3185	AMC	224 - 28
	CSR	♦KER
	SES	SOD
		SSI
2N3186	AMC	224 - 29

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TYPE No.	MFRS	Pg&Line
2N3186		
(cont.)	CSR	
	♦KER	SCA
	SES	SOD
		SSI
2N3187	AMC	224 - 55
	♦KER	SCA
		SSI
2N3188	AMC	224 - 56
	♦KER	SCA
		SSI
2N3189	AMC	224 - 57
	♦KER	SSI
2N3190	AMC	224 - 58
	♦KER	SSI
2N3191	SCA	224 - 59
		SSI
2N3192	SCA	224 - 60
		SSI
2N3193	SCA	224 - 61
		SSI
2N3194	SCA	224 - 62
	SES	SSI
2N3195	AMC	224 - 30
	CSR	♦KER
	SES	SOD
	SSI	SST
2N3196	AMC	224 - 31
	CSR	♦KER
	SCA	SES
	SOD	SSI
2N3197	AMC	224 - 32
	CSR	♦KER
	SCA	SES
	SOD	SSI
2N3198	AMC	224 - 33
	CSR	♦KER
	SCA	SES
	SOD	SSI
2N3199	SSI	221 - 53
		TEC
2N3200	SLD	221 - 54
	SSI	SST
		TEC
2N3201	SSI	221 - 55
		TEC
2N3202	AMC	216-105
	CRI	CSR
	♦KER	SCA
	SOD	SSI
	♦TCY	TEC
		TSI
2N3203	AMC	216-106
	CRI	CSR
	♦KER	SCA
	SOD	SSI
	♦TCY	TEC
		TSI
2N3204	AMC	216-107
	AMR	CRI
	CSR	♦KER
	SCA	SOD
	SSI	♦TCY
	TEC	TSI
2N3205	CRI	221 - 56
	KER	SCA
	SSI	TEC
2N3206	CRI	221 - 57
	KER	SCA
	SSI	TEC
2N3207	AMR	221 - 58
	CRI	KER
	SCA	SPE
	SSI	TEC
2N3208	AMR	216-108
	CRI	CSR
	KER	SCA
	SEI	♦TCY
	TEC	TSI
2N3209	Δ♦FSC	301 - 49
	AMR	CEN
	CSR	♦DEF
	GTC	IDC
	IDI	♦ITTB
	♦MEHK	NASB
	NSC	NTR
	RTN	SCA
	SDE	♦SES
	SGAI	SLD
	SPE	SST
	TADI	TEC
	TIIF	TSI
2N3210	CEN	167 - 52
	CSR	♦DEF
	GTC	NASB
	RTN	SDE
	♦SES	SPE
		TADI
2N3211	IDI	167 - 86
		SCA
2N3212	CRI	202 - 91
	♦GPD	♦STC
2N3213	♦GPD	202 - 92
	SPE	♦STC
2N3214	♦GPD	202 - 93
	SPE	♦STC
2N3215	GPD	202 - 94
	SPE	♦STC
2N3216	CEN	111 - 82
		313 - 7
2N3217	Δ♦TCY	134 - 65
	CRI	IDC
	♦RTN	SDE

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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N3324	IDI	112- 50
	SPE	SSI
		STI
2N3325	CRI	112- 51
	IDI	NASB
	SPE	SSI
		SST
2N3326	CEN	185- 74
	CSI	CSR
	♦DEF	GTC
	IDI	ITT
	NASB	NTR
	RTN	SCA
	SDE	♦SES
	SSI	TADI
		UPI
2N3327	SCA	250- 4
		SSI
2N3328	AMX	188- 9
	INL	NASB
	SLD	SODI
	TIID	TSC
2N3329		Δ♦TII 188- 97
	AMX	CEN
	INL	NASB
	NSC	♦SIX
	SLD	♦SODI
	TIIB	TIID
		TSC
JAN2N3329	TII	188- 98
2N3330		Δ♦TII 188- 99
	AMX	CEC
	CEN	CRI
	INL	♦MOTA
	NASB	NSC
	♦SIX	SLD
	♦SODI	TIIB
	TIID	TIIF
		TSC
JAN2N3330	MOTA	188-100
	TII	
2N3331		Δ♦TII 188-101
	AMX	CEN
	INL	NASB
	NSC	♦SIX
	SLD	♦SODI
	TIIB	TIID
	TIIF	TSC
JAN2N3331	TII	188-102
2N3332		Δ♦TII 188-103
	AMX	CEC
	CEN	INL
	NASB	NSC
	♦SIX	SLD
	♦SODI	TIIB
	TIID	TIIF
		TSC
JAN2N3332	none	188-104
2N3333	SLD	188- 10
	TIID	TIIF 340- 22
2N3334	SLD	340- 23
	TIID	TIIF 188- 11
2N3335	SLD	188- 12
	TIID	TIIF 340- 24
2N3336	SLD	340- 25
	SPE	TIID 188- 13
		TIIF
2N3337	♦ETC	160-101
	GTC	IDI
	NJS	SCA
	SPE	SSI
		STI
2N3338	♦ETC	160-102
	GTC	IDI
	NJS	SCA
	SPE	SSI
	STI	UPI
2N3339	♦ETC	160-103
	GTC	IDI
	NJS	SCA
	SSI	STI
		UPI
2N3340	SCA	169- 17
	♦SES	SPE 305- 16
	SSI	STI
2N3341	SCA	304- 66
	♦SES	SSI 135- 1
		STI
2N3342	IDI	124- 14
	NASB	SCA 307- 43
	♦SES	SLD
	SSI	SST
	STI	TCY
2N3343	IDI	124- 69
	♦SES	SLD 346- 23
	SSI	SST
	STI	TCY
2N3344	IDI	346- 24
	♦SES	SLD 124- 70
	SSI	SST
	STI	TCY
2N3345	♦SES	124- 71
	SLD	SSI 346- 25
	SST	STI
		TCY
2N3346	♦SES	346- 26
	SLD	SPE 124- 72
	SSI	SST
	STI	TCY
2N3347		Δ♦TII 126- 89
	GTC	IDI 340- 26
	MEHK	NSC
	RTN	SCA

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TYPE No.	MFRS	Pg&Line
2N3347 (cont.)	SLD	
	SPE	SST
	STI	TADI
	TIIB	TIID
		TIIF
2N3348	Δ♦TII	340- 27
	GTC	IDI 126- 90
	MEHK	NSC
	RTN	SCA
	SLD	SST
	STI	TADI
	TIIB	TIID
	TIID	TIIF
		UPI
2N3349	Δ♦TII	126- 91
	GTC	IDI 340- 28
	MEHK	NSC
	RTN	SCA
	SGAI	SLD
	SST	STI
	TADI	TIIB
	TIID	TIIF
		UPI
2N3350	Δ♦TII	340- 29
	GTC	IDI 126- 92
	MEHK	NSC
	RTN	SCA
	SLD	SPE
	SST	STI
	TADI	TIIB
	TIID	TIIF
		UPI
2N3351	Δ♦TII	126- 93
	CEN	CSR 340- 30
	GTC	IDI
	MEHK	NSC
	RTN	SCA
	SLD	SST
	STI	TADI
	TIIB	TIID
		TIIF
2N3365	Δ♦TSC	193- 88
	AMR	AMX
	CEN	IDC
	INL	MEHK
	♦MOTA	NASB
	NSC	♦SODI
	TADI	TIID
2N3366	Δ♦TSC	193- 89
	INL	MEHK
	♦MOTA	NASB
	NSC	SODI
	SPE	TADI
		TIID
2N3367	Δ♦TSC	193- 90
	AMX	CEN
	INL	MEHK
	♦MOTA	NASB
	SPE	TADI
		TIID
2N3368	Δ♦TSC	193- 91
	AMX	CEN
	INL	MEHK
	NASB	NSC
	♦SIX	♦SODI
	TADI	TIID
2N3369	Δ♦TSC	193- 92
	AMX	CEN
	INL	MEHK
	NASB	NSC
	♦SIX	♦SODI
	TADI	TIID
2N3370	Δ♦TSC	193- 93
	AMX	CEN
	INL	MEHK
	NASB	NSC
	♦SIX	♦SODI
	TADI	TIID
2N3371	IDI	112- 94
	SLD	SPE
	SST	TIID
2N3374	STI	355- 96
		236- 90
2N3375	Δ♦RCA	243-105
	♦APX	CEC
	CSR	♦FERB
	♦MOTA	♦MULB
	PHIC	♦PHIN
	SEI	♦SES
	SPE	SSI
	♦SSS	SST
	TADI	TIC
	UPI	UTS
		♦VALG
JAN2N3375	MOTA	243-106
		RCA
2N3376	Δ♦SIX	188-105
	CEC	INL
	NASB	SODI
		TSC
2N3378	Δ♦SIX	188-106
	INL	SODI
2N3380	Δ♦SIX	188-107
	INL	SODI
2N3382	Δ♦SIX	188-108

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TYPE No.	MFRS	Pg&Line
2N3382 (cont.)	CEN	
	INL	NASB
	NSC	SODI
	SPE	TSC
2N3384	Δ♦SIX	188-109
	CEN	INL
	NASB	NSC
		SODI
2N3385	NASB	188- 32
2N3386	Δ♦SIX	188-110
	CEN	INL
	NSC	SPE
		TSC
2N3388	CEN	321-101
	CSR	♦DEF 176- 86
	♦GDC	NASB
	NTR	RTN
	SDE	♦SES
	SSI	STC
	STI	TADI
		TEC
2N3389	CSR	176- 87
	♦GDC	SSI 321-102
	STC	STI
		TEC
2N3390	Δ♦GESY	147- 94
	CRI	MISI
	NASB	NPC
	NSC	NTR
	♦SES	SPE
	♦SPR	SST
	THCF	UPI
2N3390-U29	UPI	147- 95
2N3391	Δ♦GESY	147- 96
	CEC	CEN
	CRI	CSR
	IDC	IDI
	MEHK	MISI
	NASB	NJS
	NPC	NSC
	NTR	♦SES
	SPE	♦SPR
	SST	THCF
2N3391-U29	UPI	147- 97
2N3391A	Δ♦GESY	147- 98
	CEN	CSR
	IDC	IDI
	MEHK	MISI
	NPC	NSC
	SEI	♦SES
	SPE	♦SPR
		THCF
2N3392	Δ♦GESY	147- 99
	CEN	CRI
	CSR	IDC
	IDI	MEHK
	MISI	NASB
	NJS	NPC
	NSC	NTR
	SEI	♦SES
	SLD	SPE
	♦SPR	SST
	THCF	UPI
2N3392-U29	UPI	147-100
2N3393	Δ♦GESY	147-101
	CEN	CRI
	CSR	IDC
	IDI	MEHK
	MISI	NASB
	NJS	NPC
	NSC	NTR
	♦SES	SLD
	SPE	♦SPR
	SSI	SST
	THCF	UPI
2N3393-U29	UPI	147-102
2N3394	Δ♦GESY	147-103
	CEN	CRI
	CSR	IDC
	IDI	MEHK
	MISI	NASB
	NPC	NSC
	NTR	SEI
	♦SES	SLD
	SPE	♦SPR
	SSI	SST
	THCF	UPI
2N3394-U29	UPI	147-104
2N3395	Δ♦GESY	147-105
	CEN	CRI
	CSR	IDC
	IDI	MEHK
	MISI	NASB
	NPC	NSC
	NTR	♦SES
	SLD	SPE
	♦SPR	SST
	THCF	UPI
2N3396	Δ♦GESY	147-106
	CEN	CRI
	CSR	IDC
	IDI	MEHK
	MISI	NASB
	NPC	NSC
	NTR	♦SES
	SLD	SPE
	♦SPR	SST
		THCF
2N3397	Δ♦GESY	147-107
	CEN	CRI
	CSR	IDC

cont next col.

TYPE No.	MFRS	Pg&Line
2N3397 (cont)	IDI	
	MEHK	MISI
	NASB	NPC
	NSC	NTR
	♦SES	SLD
	SPE	♦SPR
	SST	THCF
2N3398	Δ♦GESY	147-108
	CEN	CRI
	CSR	IDC
	IDI	MEHK
	MISI	NASB
	NPC	NSC
	NTR	♦SES
	SLD	♦SPR
	SST	THCF
2N3399	Δ♦APX	107- 23
	♦NPC	PHIC
		SSI
2N3400	CEN	112- 46
		300- 92
2N3401	TCY	124- 21
		346- 27
2N3402	Δ♦GESY	175-105
	CEN	CSR
	IDC	MISI
	NPC	SES
	SLD	SPE
	♦SPR	SST
		THCF
2N3403	Δ♦GESY	175-106
	CEN	CRI
	CSR	IDC
	MISI	NPC
	SES	SLD
	SPE	♦SPR
	SST	THCF
2N3404	Δ♦GESY	175-107
	CEN	CSR
	IDC	MISI
	NPC	SES
	SLD	SPE
	♦SPR	SST
	THCF	UPI
2N3405	Δ♦GESY	175-108
	CEN	CSR
	IDC	MISI
	NPC	SES
	SLD	SPE
	♦SPR	SST
		THCF
2N3409	SCA	174- 24
	SES	SSI 340- 32
	STI	TADI
2N3410	SCA	340- 33
	SES	SGAI 174- 25
	SSI	STI
2N3411	SCA	174- 26
	SES	SGAI 340- 34
	SPE	SSI
	STI	TADI
2N3412	CEN	105- 59
	CSR	♦ETC
	IDI	SPE
2N3413	♦GDC	133- 81
	SCA	STI
2N3414	Δ♦GESY	165- 98
	CEN	CSR
	GTC	IDC
	IDI	MEHK
	MISI	NASB
	NPC	NSC
	NTR	SEI
	SES	SLD
	SPE	♦SPR
	SST	THCF
		UPI
2N3416	Δ♦GESY	165-100
	CEN	CSR
	GTC	IDC
	IDI	MEHK
	MISI	NASB
	NPC	NSC
	NTR	♦SES
	SLD	SPE
	♦SPR	SST
	THCF	UPI
2N3417	Δ♦GESY	165-101
	CEN	CSR
	GTC	IDC
	IDI	MEHK
	MISI	NASB
	NPC	NSC
	NTR	SEI
	SES	SLD
	SPE	♦SPR
	SST	THCF
		UPI
2N3418	Δ♦TII	311- 86
	AMC	CEN 231- 42
	CSR	♦GSE

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TYPE No.	MFRS	Pg&Line
2N3418 (cont.)	IDI	
	♦KER	PPC
	SCA	SDE
	SES	SGAI
	SLD	SOD
	SSI	SST
	STC	TEC
	TIIB	TIID
	TIIF	TRW
		UNI
JAN2N3418	AMC	233- 3
	GSE	TEC 312- 75
		TII
2N3419	Δ♦TII	311- 87
	AMC	CEN 231- 43
	CRI	CSR
	♦GDC	♦GSE
	IDI	♦KER
	PPC	SCA
	SDE	SES
	SGAI	SLD
	SOD	SSI
	SST	STC
	TEC	TIIB
	TIID	TIIF
	TRW	UNI
JAN2N3419	AMC	233- 4
	TEC	TII 312- 76
2N3420	Δ♦TII	311- 88
	AMC	CEC 231- 44
	CEN	CSR
	♦GSE	GTC
	IDI	♦KER
	PPC	SCA
	SDE	SES
	SGAI	SLD
	SOD	SSI
	SST	STC
	TEC	TIIB
	TIID	TIIF
	TRW	UNI
JAN2N3420	AMC	233- 5
	GSE	TEC 312- 77
		TII
2N3421	Δ♦TII	311- 89
	AMC	CEC 231- 45
	CEN	CRI
	CSR	♦GDC
	♦GSE	GTC
	IDI	♦KER
	PPC	SCA
	SDE	SES
	SGAI	SLD
	SOD	SSI
	SST	STC
	TEC	TIIB
	TIID	TIIF
	TRW	UNI
JAN2N3421	AMC	233- 6
	GSE	TEC 312- 78
		TII
2N3423	CSR	161- 33
	♦MEHK	RTN 340- 35
	SCA	♦SES
	SGAI	TADI
2N3424	CSR	340- 36
	♦MEHK	RTN 161- 34
	SCA	♦SES
	SGAI	SPE
		TADI
2N3425	♦MOTA	160- 6
	RTN	347- 39
2N3426	NASB	178- 7
	♦PHIN	SCA 290- 60
	SGAI	SSI
2N3427	Δ♦MOTA	114- 84
	CEN	CSR
	GTC	IDI
	LTE	♦SES
		STI
2N3428	CEN	114- 99
	CSR	IDI
	♦SES	SPE
		STI
2N3429	Δ♦WESY	325- 50
	SES	SPC 279- 4
2N3430	Δ♦WESY	279- 5
	CRI	SES 325- 51
		SPC
2N3431	Δ♦WESY	325- 52
	SES	SPC 279- 6
2N3432	Δ♦WESY	279- 7
	SES	SPC 325- 53
		STI
2N3433	Δ♦WESY	325- 54
	SES	SPC 279- 8
2N3435	STI	235- 46
2N3436	Δ♦TSC	193- 94
	AMX	CEN
	CRI	INL
	MEHK	MOTA
	NASB	NSC
	♦SIX	♦SODI
		TADI
2N3437	Δ♦TSC	193- 95
	AMX	CEN
	INL	MEHK
	MOTA	NASB
	NSC	♦SIX
	♦SODI	TADI
2N3438	Δ♦TSC	193- 96
	AMX	CEN

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TYPE No.	MFRS	Pg&Line
2N3511		
(cont.)	GTC	289 - 63
	IDC	
	IDI	
	SCA	
	SLD	
	SPE	
	SSI	
	SST	
2N3512	CSR	292 - 89
	ETC	♦FERB 185 - 75
	NJS	
	SSI	
	TADI	
2N3513	IDC	340 - 37
	SES	
2N3516	♦GDC	340 - 38
	IDC	
	SES	
2N3521	GTC	340 - 39
	IDI	
	SES	
2N3522	GTC	340 - 40
	IDI	
	SCA	
	SES	
2N3526	IDI	183 - 13
	SCA	
2N3527	Δ♦TCY	134 - 54
	SCA	
2N3543	IDI	261 - 12
	SCA	
	SPE	
	SSI	
	TRW	
2N3544	Δ♦MOTA	161 - 35
	GTC	
	IDI	
	SCA	
	SSI	
2N3545	ΔRTN	133 - 14
	CEN	CSI 294 - 90
	CSR	GTC
	IDI	MEHK
	NASB	NSC
	NTR	SCA
	SDE	♦SES
	SPE	SSI
	TADI	TSI
2N3546	Δ♦MOTA	291 - 10
	GTC	IDC 133 - 60
	IDI	ITT
	MEHK	NASB
	NSC	NTR
	SCA	SDE
	♦SES	SPE
	SSI	TADI
2N3547	Δ♦NSC	134-107
	CEN	CSR
	GTC	IDI
	♦MEHK	NASB
	NTR	SCA
	SSI	TADI
2N3548	Δ♦NSC	135 - 11
	CEN	CSR
	GTC	IDI
	♦MEHK	NASB
	NTR	SCA
	SPE	SSI
		TADI
2N3549	Δ♦NSC	135 - 12
	CEN	CSR
	GTC	IDI
	♦MEHK	NASB
	NTR	SCA
	SPE	SSI
		TADI
2N3550	Δ♦NSC	135 - 13
	CEN	CSR
	GTC	IDI
	NASB	NTR
	SSI	TADI
2N3551	Δ♦TII	265 - 90
	GTC	IDI 311 - 90
	PPC	SCA
	SSI	TIIB
		♦TRW
2N3552	Δ♦TII	311 - 91
	GTC	IDI 265 - 91
	PPC	SCA
	SSI	TIIB
		♦TRW
2N3553	Δ♦RCA	239 - 49
	♦APX	CEC
	CRI	CSR
	♦FERB	IDI
	MEHK	♦MOTA
	♦MULB	NASB
	PHIC	♦PHIN
	RTN	SEI
	♦SES	SPE
	♦SSS	SST
	TADI	TIC
	UPI	♦VALG
JAN2N3553	MOTA	239 - 50
	RCA	
2N3554	Δ♦TII	295 - 40
	CEN	CSR 185 - 18
	GTC	IDI
	NASB	SCA
	SDE	♦SES
	TADI	TIIB
	TIID	UPI
2N3563	Δ♦FSC	151 - 12
	CEN	CRI
	CSR	DEF
	DIT	♦ETC
	IDI	♦MEHK
	NASB	NJS
	NSC	SDE
	SEI	♦SES
	SPE	♦SPR
	SST	STI
	STR	UPI
2N3564	CEN	150 - 75
	CSR	♦DEF
	ETC	IDI
	♦MEHK	NASB
	NJS	NSC
	SDE	♦SES
	SPE	SST
	STI	STR
		UPI
2N3565	Δ♦FSC	148 - 72
	CEN	CSR
	DEF	DIT
	IDI	♦MEHK
	NASB	NJS
	NSC	SDE
	SEI	♦SES
	SLD	SPE
	♦SPR	SST
	STI	STR
	TIID	UPI
2N3566	Δ♦FSC	156 - 55
	CEN	CSR
	DEF	DIT
	IDC	IDI
	MEHK	NASB
	NJS	NSC
	SDE	SEI
	♦SES	SPE
	♦SPR	SST
	STI	STR
		UPI
2N3567	Δ♦FSC	157 - 10
	CEN	CRI
	CSR	♦DEF
	DIT	IDI
	MEHK	NASB
	NJS	NSC
	SDE	SEI
	♦SES	SLD
	SPE	SST
	STI	STR
		UPI
2N3568	Δ♦FSC	157 - 11
	CEN	CSR
	DEF	DIT
	IDI	MEHK
	NASB	NJS
	NSC	SDE
	SEI	♦SES
	SLD	SPE
	SST	STI
	STR	UPI
2N3569	Δ♦FSC	157 - 12
	CEN	CRI
	CSR	♦DEF
	DIT	IDI
	MEHK	NASB
	NJS	NSC
	SDE	SEI
	♦SES	SLD
	SPE	SST
	STI	STR
		UPI
2N3570	Δ♦TII	152 - 20
	CSI	♦FERB
	FSC	GTC
	LTTF	♦MIC
	♦MISI	NPC
	♦PHIN	SCA
	SLD	SSI
	SST	STI
	TADI	♦THCF
	TIIB	TIID
		UPI
2N3571	Δ♦TII	151-108
	♦FERB	FSC
	GTC	LTTF
	♦MIC	♦MISI
	NPC	♦PHIN
	SCA	SLD
	SPE	SSI
	SST	STI
	♦THCF	TIIB
	TIID	UPI
2N3572	Δ♦TII	151 - 66
	CSI	♦FERB
	FSC	GTC
	IDI	LTTF
	♦MIC	♦MISI
	NPC	♦PHIN
	SCA	SLD
	SPE	SSI
	SST	STI
	♦THCF	TIIB
	TIID	UPI
2N3573	SLD	188 - 4
	TIID	
2N3574	INL	188 - 8
	NASB	SLD
	SPE	TIID
		TSC
2N3575	INL	188 - 15
	NASB	SLD
	TIID	TSC
2N3576	Δ♦TII	133 - 37
	CEN	CSR 291 - 71
	GTC	IDI
	MEHK	NASB
	NSC	NTR
	SCA	SDE
	♦SES	SSI
	STI	TADI
	TIIB	TIID
		TIIF
2N3578	AMX	189 - 1
	CEC	INL
		TIID
2N3579	SCA	135 - 19
	♦SES	SPE
		SSI
2N3580	SCA	135 - 20
	♦SES	SPE
		SSI
2N3581	SCA	133 - 82
	♦SES	SSI
2N3582	SCA	133 - 83
	♦SES	SSI
2N3583	Δ♦RCA	252 - 91
	AMC	♦FERB
	GTC	IDI
	INR	KER
	MISI	♦MOTA
	NPC	RCAB
	SPE	♦STC
	STI	THCF
	♦TII	TIIB
		UNI
2N3584	Δ♦RCA	252 - 92
	AMC	♦FERB 325 - 13
	GTC	IDI
	INR	KER
	MISI	♦MOTA
	NPC	RCAB
	SPE	♦STC
	STI	THCF
	♦TII	TIIB
	TSI	UNI
JAN2N3584	RCA	325 - 26
	STC	252 - 93
2N3585	Δ♦RCA	252 - 94
	AMC	♦FERB 325 - 14
	GTC	IDI
	INR	KER
	MISI	♦MOTA
	NPC	RCAB
	SPE	♦STC
	STI	THCF
	♦TII	TIIB
		UNI
JAN2N3585	RCA	325 - 27
	STC	252 - 95
2N3587	ΔNSC	157 - 51
	GDC	GTC 340 - 41
	IDI	MEHK
	NTR	SCA
	SLD	SST
		TADI
2N3588	PHIC	108 - 35
		SSI
2N3589	♦GDC	243-107
	SCA	SLD
	SSI	SST
	STC	STI
		TEC
2N3590	♦GDC	243-108
	SCA	SLD
	SPE	SSI
	SST	STC
	STI	TEC
2N3591	SCA	243-109
	SSI	STI
		TEC
2N3592	SCA	244 - 1
	SSI	STI
		TEC
2N3593	♦GDC	239 - 51
	GTC	IDI
	SCA	SSI
	STI	TEC
2N3594	♦GDC	239 - 52
	GTC	IDI
	SCA	SSI
	STI	TEC
2N3595	♦GDC	244 - 2
	GTC	IDI
	SCA	SSI
	STC	STI
2N3596	♦GDC	244 - 3
	GTC	IDI
	SCA	SSI
	STC	STI
2N3597	Δ♦SOD	274-102
	AMC	CSR 320 - 30
	GSE	GTC
	IDI	♦KER
	SCA	SDE
	♦SES	SSI
	♦STC	TEC
	TRW	UNI
2N3598	Δ♦SOD	320 - 31
	AMC	CRI 274-103
	CSR	GSE
	GTC	IDI
	♦KER	SCA
	SDE	♦SES
	SSI	♦STC
	TEC	TRW
		UNI
2N3599	Δ♦SOD	274-104
	AMC	CSR 320 - 32
	GSE	GTC
	IDI	♦KER
	SCA	SDE
	♦SES	SPE
	SSI	♦STC
	TEC	TRW
		UNI
2N3600	Δ♦RCA	151 - 50
	♦APX	CRI
	ETC	♦FERB
	GTC	IDI
	MEHK	NSC
	NTR	♦SCA
	SES	SGAI
	SSI	SST
		TADI
2N3605	IDI	150 - 36
	MEHK	MISI 296 - 12
	NASB	NPC
	NSC	NTR
	♦SES	SPE
	STI	THCF
2N3605A	SES	296 - 13
	SPE	163 - 43
2N3606	IDI	150 - 37
	MEHK	MISI 297-106
	NASB	NPC
	NSC	NTR
	♦SES	THCF
2N3606A	SES	297-107
		163 - 44
2N3607	IDI	150 - 38
	MEHK	MISI 298 - 70
	NASB	NPC
	NSC	NTR
	♦SES	THCF
2N3608	♦GIC	189 - 91
		INL
2N3609	♦GIC	189 - 92
	SPE	346 - 28
2N3611	CEC	206 - 95
	CEN	CSR
	♦ETC	♦GPD
	GTC	IDI
	LTE	NJS
	♦SES	SPE
	SST	♦STC
		STR
2N3612	CEC	206 - 96
	CEN	CRI
	CSR	♦ETC
	♦GPD	GTC
	IDI	LTE
	NJS	♦SES
	SPE	SST
	♦STC	STR
2N3613	CEC	206 - 97
	CEN	CRI
	CSR	♦ETC
	♦GPD	GTC
	IDC	IDI
	LTE	NJS
	♦SES	SPE
	SST	♦STC
	STR	UPI
2N3614	CEC	206 - 98
	CEN	CRI
	CSR	♦ETC
	♦GPD	GTC
	IDC	IDI
	LTE	NJS
	♦SES	SPE
	SST	♦STC
	STR	UPI
2N3615	CEC	206 - 99
	CEN	CRI
	CSR	♦ETC
	♦GPD	GTC
	IDI	LTE
	NJS	♦SES
	SPE	SST
	♦STC	STR
		UPI
2N3616	CEC	206-100
	CEN	CRI
	CSR	♦ETC
	♦GPD	GTC
	IDC	IDI
	LTE	NJS
	♦SES	SPE
	SST	♦STC
	STR	UPI
2N3617	AMR	206-101
	CEC	CEN
	CRI	CSR
	♦GPD	GTC
	IDC	IDI
	LTE	♦SES
	SST	♦STC
	STR	UPI
2N3618	CEC	206-102
	CEN	CRI
	CSR	♦GPD
	GTC	IDI
	LTE	♦SES
	SPE	SST
	♦STC	STR
		UPI
2N3619	Δ♦SOD	241 - 15
	AMC	CSR
	GTC	IDI
	SCA	SDE
		SSI
2N3620	CSR	241 - 16
	SCA	SSI
2N3621	CSR	252 - 96
	IDI	♦KER
	SCA	SSI
2N3622	CSR	252 - 97
	IDI	♦KER
	DEF	ETC
cont.next col.		
2N3622		
(cont.)	SCA	
	SDE	SSI
2N3623	Δ♦SOD	241 - 17
	AMC	GTC
	IDI	SCA
	SDE	SSI
2N3624	SCA	241 - 18
		SSI
2N3625	CSR	252 - 98
	IDI	♦KER
	SCA	SPE
		SSI
2N3626	CSR	252 - 99
	IDI	♦KER
	SCA	SDE
		SSI
2N3627	Δ♦SOD	241 - 19
	AMC	GTC
	IDI	SCA
	SDE	SSI
2N3628	AMC	241 - 20
	SCA	SSI
2N3629	AMC	252-100
	CSR	IDI
	♦KER	SCA
		SSI
2N3630	AMC	252-101
	CSR	IDI
	♦KER	SCA
	SDE	SPE
		SSI
2N3631	Δ♦SIX	193-106
		SPE
2N3632	Δ♦RCA	249 - 33
	♦APX	CRI
	♦FERB	♦MOTA
	♦MULB	PHIC
	♦PHIN	SCA
	SEI	♦SES
	SPE	SSI
	♦SSS	TADI
	TIC	UPI
	UTS	♦VALG
2N3633	Δ♦TEC	289 - 21
	CEN	CSR 161 - 61
	IDI	SCA
	♦SES	SSI
2N3634	CEC	215 - 90
	CEN	CRI 314 - 90
	CSR	ETC
	♦GDC	GTC
	IDI	NASB
	NJS	NSC
	RTN	SCA
	SES	SLD
	SPE	SSI
	SST	STI
	TADI	TEC
		♦TII
JAN2N3634	MOTA	314-107
	TEC	215 - 91
2N3634S	MOTA	215 - 92
		314 - 91
2N3635	AMC	314 - 93
	CEC	CRI 215 - 93
	CSR	ETC
	♦GDC	GTC
	IDI	NASB
	NJS	NSC
	PPC	SCA
	SEI	SES
	SLD	SPE
	SST	STI
	TADI	TEC
		♦TII
JAN2N3635	MOTA	214 - 11
	TEC	314-109
2N3635S	MOTA	314 - 94
		215 - 94
2N3636	Δ♦MOTA	215 - 95
	CEC	CRI 314 - 92
	CSR	ETC
	♦GDC	GTC
	IDI	NASB
	NJS	NSC
	RTN	SCA
	SES	SLD
	SPE	SST
	STI	TADI
	TEC	♦TII
JAN2N3636	MOTA	314-108
	TEC	214 - 12
2N3637	CEC	215 - 96
	CSR	ETC 314 - 95
	♦GDC	GTC
	IDI	MEHK
	NASB	NJS
	NSC	PPC
	RTN	SCA
	SEI	SES
	SLD	SPE
	SST	STI
	TADI	TEC
		♦TII
JAN2N3637	MOTA	314-110
	TEC	214 - 13
2N3637S	MOTA	215 - 97
		314 - 96
2N3638	Δ♦FSC	302 - 9
	AMR	CEN 126-103
	CRI	CSR
	DEF	ETC
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1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
2N3720		
(cont.)	CRI	
	CSR	GTC
	♦KER	NASB
	PPC	SCA
	SES	SLD
	SOD	SSI
	SST	STC
	TEC	♦TII
		TIIB
2N3721	Δ♦GESY	147-109
	CEN	CRI
	CSR	IDI
	MEHK	NPC
	NSC	NTR
	♦SES	SLD
	♦SPR	SST
		UPI
2N3722	CEN	185-100
	CSR	IDI 300-46
	NASB	NTR
	RTN	SCA
	SDE	♦SES
	SSI	SST
		TADI
2N3723	CEN	302-33
	CSR	♦GDC 185-101
	IDI	NASB
	NTR	SCA
	SPE	SSI
		SST
2N3724	Δ♦MOTA	185-102
	CEN	CRI 294-106
	CSR	ESE
	ETC	♦FSC
	GTC	IDI
	♦ITT	ITTB
	MEHK	MISI
	NASB	NJS
	NPC	NSC
	NTR	RTN
	SEI	SES
	SGAI	SLD
	♦SPR	SST
	TADI	TEC
	♦THCF	♦TII
	TIIB	TIID
	TIIF	TSI
		UPI
2N3724A	Δ♦TII	294-107
	CEN	CSR 236-106
	ESE	GTC
	IDI	KER
	MEHK	NASB
	NSC	NTR
	RTN	SCA
	SES	TADI
	TIIB	TIID
	TIIF	TSI
		UPI
2N3725	Δ♦MOTA	294-108
	CEN	CRI 185-103
	CSR	♦DEF
	ESE	ETC
	♦FSC	GTC
	IDC	IDI
	♦ITT	ITTB
	MEHK	MISI
	NASB	NJS
	NPC	NSC
	NTR	RTN
	SES	SGAI
	SLD	SPE
	♦SPR	SST
	TADI	TEC
	THCF	♦TII
	TIIB	TIID
	TIIF	TSI
		UPI
2N3725A	Δ♦TII	294-109
	CEC	CEN 236-107
	CSR	♦DEF
	ESE	GTC
	IDI	KER
	MEHK	NASB
	NSC	NTR
	RTN	SCA
	SES	TADI
	TIIB	TIID
	TIIF	TSI
		UPI
2N3726	CRI	135-14
	GTC	IDI
	MEHK	♦MOTA
	NSC	RTN
	SCA	SES
	SGAI	SPE
	SSI	STI
	TADI	UPI
2N3727	CSR	135-15
	GTC	IDI
	MEHK	♦MOTA
	NSC	RTN
	SCA	STI
	TADI	UPI
2N3728	CRI	170-61
	RTN	SCA 340-43
	STI	TADI
2N3729	CRI	340-44
	RTN	SCA 170-62
	SPE	STI
	TADI	UPI
2N3730	CEN	204-9
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N3730		
(cont.)	CRI	
	♦GPD	GTC
	IDI	NJS
	SPE	SST
	STI	STR
		UPI
2N3731	CEN	202-99
	CRI	CSR
	♦GPD	GTC
	IDI	NJS
	SPE	SST
	STR	UPI
2N3732	CEN	202-84
	CRI	♦GPD
	GTC	IDI
	SST	STR
2N3733	Δ♦RCA	249-34
	CRI	♦FERB
	♦SES	SPE
	♦SSS	SST
	TADI	TIC
2N3734	CEN	235-47
	CRI	CSR 297-108
	ETC	GTC
	IDI	ITT
	MEHK	NASB
	NJS	NSC
	NTR	RTN
	SCA	SEI
	SES	SPE
	SST	STI
	TADI	♦TII
	TIIB	UPI
2N3734S	MOTA	297-109
		235-48
2N3735	ΔMOTA	235-49
	CEC	CEN 297-78
	CRI	CSR
	ETC	GTC
	IDI	NASB
	NJS	RTN
	SCA	SES
	SST	STI
	TADI	♦TII
		TIIB
JAN2N3735	MOTA	298-27
		RTN 233-97
2N3736	Δ♦MOTA	297-110
	CRI	RTN 174-64
	TSI	UPI
2N3737	Δ♦MOTA	174-27
	CEC	IDC 297-79
	RTN	SPE
	SSI	TSI
JAN2N3737	MOTA	298-28
		RTN 174-28
2N3738	Δ♦MOTA	249-56
	AMC	CRI
	♦GDC	♦HVS
	IDI	KER
	♦MISI	NPC
	SPE	SSI
	♦STC	STI
		♦THCF
2N3739	Δ♦MOTA	249-57
	AMC	CRI
	♦GDC	♦HVS
	KER	NASB
	SPE	SSI
	♦STC	STI
JAN2N3739	MOTA	248-48
		323-75
2N3740	Δ♦MOTA	219-98
	AMC	AMR
	CEC	CRI
	CSR	♦FSC
	GTC	IDI
	♦KER	♦MISI
	NASB	NPC
	PPC	SEI
	SES	SLD
	SOD	SPE
	SSI	SST
	♦STC	TEC
	♦THCF	UPI
JAN2N3740	MOTA	219-99
	SOD	STC 314-80
		TEC
2N3740A	Δ♦MOTA	219-100
	AMC	CSR
	KER	NASB
	SES	SPE
	SSI	♦STC
2N3741	Δ♦MOTA	219-101
	AMC	CEC
	CRI	CSR
	♦FSC	GTC
	IDI	♦KER
	♦MISI	NASB
	NPC	PPC
	SEI	SES
	SLD	SOD
	SPE	SSI
	SST	♦STC
	TEC	♦THCF
		UPI
JAN2N3741	MOTA	219-102
	SOD	STC 314-81
		TEC
2N3741A	Δ♦MOTA	219-103
	AMC	CSR
	KER	NASB
cont.next col		

TYPE No.	MFRS	Pg&Line
2N3741A		
(cont.)	PPC	
	SES	SSI
		♦STC
2N3742	CRI	236-108
	ETC	♦GDC
	GTC	♦HVS
	IDI	KER
	NASB	NSC
	SCA	SSI
	♦STC	STI
		UPI
2N3742S	KER	236-109
		MOTA
2N3743	CRI	215-98
	CSR	♦GDC
	GTC	♦HVS
	IDI	SCA
	SSI	♦STC
	STI	TEC
JAN2N3743	MOTA	215-99
		TEC
2N3743S	MOTA	215-100
2N3744	ΔSOD	306-45
	♦AMC	CRI 259-50
	GSE	GTC
	IDI	PPC
	SCA	♦SES
	SLD	SSI
	SST	♦STC
	STR	TEC
	TRW	UNI
2N3745	Δ♦SOD	259-51
	♦AMC	CRI 306-46
	GSE	GTC
	IDI	PPC
	SCA	♦SES
	SLD	SSI
	SST	♦STC
	STR	TEC
	TRW	UNI
2N3746	ΔSOD	306-47
	♦AMC	CRI 259-52
	GSE	GTC
	IDI	PPC
	SCA	♦SES
	SLD	SSI
	SST	♦STC
	STR	TEC
	TRW	UNI
2N3747	ΔSOD	259-53
	♦AMC	CRI 302-102
	GSE	GTC
	IDI	♦PPC
	SCA	♦SES
	SLD	SSI
	SST	♦STC
	STR	TEC
	TRW	UNI
2N3748	ΔSOD	302-103
	♦AMC	CRI 259-54
	GSE	GTC
	IDI	♦PPC
	SCA	♦SES
	SLD	SSI
	SST	♦STC
	STR	TEC
	TRW	UNI
2N3749	ΔSOD	259-55
	♦AMC	CRI 302-104
	GSE	GTC
	IDI	♦PPC
	SCA	♦SES
	SLD	SSI
	SST	♦STC
	STR	TEC
	TRW	UNI
JAN2N3749	AMC	311-28
	SOD	TEC 257-90
		UNI
2N3750	ΔSOD	259-56
	♦AMC	CRI 302-107
	GSE	GTC
	IDI	PPC
	SCA	♦SES
	SLD	SSI
	SST	♦STC
	STR	TEC
	TRW	UNI
2N3751	ΔSOD	302-108
	♦AMC	CRI 259-57
	GSE	GTC
	IDI	PPC
	SCA	♦SES
	SLD	SSI
	SST	♦STC
	STR	TEC
	TRW	UNI
2N3752	ΔSOD	259-58
	♦AMC	CRI 302-109
	GSE	GTC
	IDI	PPC
	SCA	♦SES
	SLD	SSI
	SST	♦STC
	STR	TEC
	TRW	UNI
2N3762	AMR	295-51
	CEC	CRI 215-81
	GTC	IDI
	NASB	RTN
	SCA	SPE
	SSI	STI
	TADI	UPI

TYPE No.	MFRS	Pg&Line
JAN2N3762	MOTA	215-58
		296-46
2N3762A	ΔMOTA	295-41
		215-82
2N3762S	MOTA	215-83
		295-52
2N3763	CEC	295-42
	CRI	CSR 215-84
	GTC	IDI
	NASB	SCA
	SES	SPE
	SSI	STI
	TADI	UPI
JAN2N3763	MOTA	215-59
		296-47
2N3764	Δ♦MOTA	295-53
	CRI	RTN 137-48
	SES	SSI
	SST	TADI
		UPI
JAN2N3764	MOTA	137-49
		296-48
2N3764A	ΔMOTA	295-43
		136-29
2N3765	CRI	137-12
	SES	SSI 295-44
	SST	TADI
	TSI	UPI
JAN2N3765	MOTA	296-49
		137-13
2N3766	Δ♦MOTA	249-58
	AMC	CRI
	CSR	DIT
	♦FSC	GSE
	GTC	IDI
	♦KER	NJS
	PPC	SDE
	SEI	SES
	SLD	SOD
	SPE	SSI
	SST	♦STC
	TEC	UPI
JAN2N3766	none	250-53
		310-55
2N3767	Δ♦MOTA	249-59
	AMC	CRI
	CSR	DIT
	♦FSC	♦GDC
	GSE	GTC
	IDI	♦KER
	NJS	PPC
	SDE	SEI
	SES	SLD
	SOD	SPE
	SSI	SST
	♦STC	TEC
		UPI
JAN2N3767	none	250-54
		310-56
2N3771	Δ♦RCA	273-17
	AMC	CEC
	CEN	CRI
	CSR	DIT
	♦FSC	GTC
	IDC	IDI
	♦KER	MEHK
	MISI	♦MULB
	NASB	NJS
	♦NPC	♦PHIN
	♦PPC	♦RCAB
	♦RTCF	SCA
	SDE	SEI
	♦SES	SLD
	♦SOD	♦SPC
	SPE	♦SSI
	SST	♦STC
	STR	TEC
	THCF	♦TII
	TIIB	UPI
		♦WESY
JAN2N3771	AMC	274-38
	RCA	SOD 327-98
		SPC
2N3772	Δ♦RCA	273-18
	AMC	CEC
	CEN	CRI
	CSI	CSR
	DIT	♦FSC
	GTC	IDC
	IDI	♦KER
	MEHK	MISI
	♦MULB	NASB
	NJS	NPC
	♦PHIN	♦PPC
	♦RCAB	♦RTCF
	SCA	SDE
	SEI	♦SEN
	♦SES	SLD
	♦SOD	♦SPC
	SPE	♦SSI
	SST	♦STC
	STR	TEC
	THCF	♦TII
	TIIB	UPI
		♦WESY
JAN2N3772	AMC	274-39
	RCA	SOD 327-50
		SPC
2N3772C	KER	273-19
		♦SEN
2N3773	Δ♦RCA	338-49
	AMC	CEC
	CRI	CSI
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N3773		
(cont.)	DIT	
	ETC	GTC
	IDC	IDI
	♦KER	MISI
	♦MOTA	NASB
	NJS	♦NPC
	♦PPC	RCAB
	SCA	SDE
	SEI	♦SEN
	♦SES	♦SOD
	♦SPC	SPE
	♦SSI	SST
	♦STC	STR
	THCF	UPI
		♦WESY
2N3774	AMC	216-109
	CRI	CSR 324-101
	PPC	SOD
	SSI	STI
	♦TCY	TSI
2N3775	AMC	324-102
	CRI	CSR 216-110
	PPC	SOD
	SSI	STI
	♦TCY	TSI
2N3776	AMC	217-1
	CRI	CSR 324-103
	PPC	SOD
	SSI	STI
	♦TCY	TSI
2N3777	AMC	324-104
	CRI	CSR 217-2
	PPC	SOD
	SSI	STI
	♦TCY	TSI
2N3778	AMC	217-3
	CRI	CSR 324-105
	PPC	SOD
	SSI	STI
	♦TCY	TSI
2N3779	AMC	324-106
	CRI	CSR 217-4
	PPC	SOD
	SSI	STI
	♦TCY	TSI
2N3780	AMC	217-5
	CRI	CSR 324-107
	PPC	SOD
	SSI	STI
	♦TCY	TSI
2N3781	AMC	324-108
	CRI	CSR 217-6
	PPC	SOD
	SSI	STI
	♦TCY	TSI
2N3782	AMC	217-7
	CRI	CSR 324-109
	♦KER	SOD
	SSI	STI
	♦TCY	TSI
2N3783	CRI	112-101
		SSI
2N3784	CRI	112-99
		SSI
2N3785	CRI	112-100
		SSI
2N3788	AMC	268-16
	CRI	CSR
	ESE	GTC
	IDI	KER
	SOD	♦SPC
	SPE	SSI
	♦STC	STI
2N3789	Δ♦MOTA	226-67
	AMC	CRI
	CSR	ESE
	ETC	♦FSC
	GTC	IDI
	INR	♦KER
	NASB	NJS
	PPC	♦SES
	SGAI	SOD
	SPE	♦SSI
	SST	♦STC
	TEC	♦TII
	TIIB	TIID
2N3790	Δ♦MOTA	226-68
	AMC	CRI
	CSR	ESE
	ETC	♦FSC
	GTC	IDI
	INR	♦KER
	NASB	NJS
	PPC	♦SES
	SGAI	SOD
	SPE	♦SSI
	SST	♦STC
	TEC	♦TII
	TIIB	TIID
2N3791	Δ♦MOTA	226-69
	AMC	CRI
	CSR	ESE
	ETC	♦FSC
	GTC	IDI
	INR	♦KER
	NASB	NJS
	PPC	♦SES
	SGAI	SOD
	SPE	♦SSI
	SST	♦STC
	TEC	♦TII
	TIIB	TIID
		UPI

Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
JAN2N3868	MOTA	301 - 81
	TEC	217 - 34
2N3869	△NECJ	233 - 98
CRI	CSR	
IDI	SCA	
SPE	SSI	
2N3876	△♦TRW	274-105
CRI	KER	
	SSI	
2N3877	△♦GESY	147-110
CRI	IDC	
IDI	MEHK	
NASB	NSC	
NTR	SES	
SPE	♦SPR	
STI	UPI	
2N3877A	△♦GESY	148 - 1
IDC	IDI	
NASB	NSC	
NTR	SES	
SPE	♦SPR	
SST	STI	
	UPI	
2N3878	△♦RCA	252-102
AMC	CRI	
CSR	GSE	
GTC	IDI	
♦KER	PPC	
RCAB	SDE	
SES	SLD	
SOD	SSI	
SST	♦STC	
TEC	TRW	
	UNI	
2N3879	△♦RCA	252-103
AMC	CRI	314 - 52
CSR	GSE	
GTC	IDI	
♦KER	PPC	
RCAB	SCA	
SDE	SES	
SLD	SOD	
SPE	SSI	
SST	♦STC	
TEC	TRW	
UNI	UPI	
2N3880	△♦MIC	151-109
CRI	FSC	
GTC	IDI	
SCA	STI	
	TADI	
2N3881	CRI	177 - 54
CSI	IDI	
SCA	SSI	
2N3882	CRI	188 - 38
2N3883	CRI	117 - 4
	IDI	296 - 79
2N3900	△♦GESY	148 - 2
CEN	CRI	
CSR	IDC	
IDI	MEHK	
NASB	NPC	
NSC	NTR	
♦SES	♦SPR	
	STR	
2N3900A	△♦GESY	148 - 3
CEN	CSR	
IDC	IDI	
NSC	NTR	
♦SES	SPE	
♦SPR	STR	
2N3901	△♦GESY	148 - 4
CRI	IDC	
MEHK	NASB	
NPC	NSC	
NTR	♦SES	
SPE	SPR	
	STR	
2N3902	△♦DEL	320 - 60
AMC	AMR	279 - 9
CRI	GTC	
IDI	♦INR	
♦MOTA	PPC	
SCA	SES	
♦SOD	♦SPC	
SPE	♦STC	
STI	STR	
TEC	♦TII	
	TIIB	
JAN2N3902	DEL	279 - 10
MOTA	SOD	320 - 61
	SPC	
2N3903	△♦MOTA	164 - 82
CEN	CRI	295 - 96
CSR	♦DEF	
DIT	♦FERB	
FSC	♦GDC	
GTC	IDI	
ITT	MEHK	
NASB	NJS	
NPC	NSC	
NTR	PIHS	
RHM	SEI	
♦SES	SLD	
SPE	♦SPR	
SST	STI	
STR	♦TII	
TIIB	TIIC	
	UPI	
2N3904	△♦MOTA	296 - 14
CEN	CRI	165 - 17
CSR	♦DEF	
DIT	♦FERB	
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N3904		
(cont)	FSC	
♦GDC	GTC	
IDC	IDI	
ITT	MEHK	
NASB	NJS	
NPC	NSC	
NTR	RHM	
SEI	♦SES	
SLD	SPE	
♦SPR	SST	
STI	STR	
♦TII	TIIB	
TIIC	UPI	
2N3905	△♦MOTA	131 - 29
CEN	CRI	295 - 62
CSR	♦DEF	
DIT	♦FERB	
FSC	♦GDC	
GTC	IDC	
IDI	ITT	
MEHK	NASB	
NJS	NPC	
NSC	NTR	
RHM	SEI	
♦SES	SLD	
SPE	♦SPR	
SST	STI	
STR	♦TII	
TIIB	TIIC	
	UPI	
2N3906	△♦MOTA	295 - 97
CEN	CRI	131 - 60
CSR	♦DEF	
DIT	♦FERB	
FSC	♦GDC	
GTC	IDC	
IDI	ITT	
MEHK	NASB	
NJS	NPC	
NSC	NTR	
RHM	SEI	
♦SES	SLD	
SPE	♦SPR	
SST	STI	
STR	♦TII	
TIIB	TIIC	
	UPI	
2N3907	AMR	157 - 14
CRI	CSR	340 - 65
GDC	GTC	
IDI	INL	
MEHK	NSC	
SCA	♦SES	
SLD	SPE	
SST	STR	
	TADI	
2N3908	CRI	340 - 66
GDC	GTC	157 - 15
IDI	INL	
MEHK	NSC	
SCA	♦SES	
SLD	SST	
STR	TADI	
2N3909	△♦TII	189 - 2
AMR	AMX	
CEC	CRI	
INL	♦MOTA	
NASB	♦SIX	
SLD	♦SODI	
SPE	TIIB	
TIID	TIIF	
	TSC	
2N3909A	△♦TII	189 - 3
AMR	AMX	
INL	♦MOTA	
SLD	SODI	
	TIID	
2N3910	△♦RTN	136 - 52
CRI	CSR	346 - 33
SDE	♦SES	
SSI	TADI	
♦TCY	TSI	
2N3911	△♦RTN	346 - 34
CRI	SDE	136 - 53
♦SES	SSI	
TADI	♦TCY	
	TSI	
2N3912	CRI	136 - 54
SDE	♦SES	346 - 35
SPE	SSI	
TADI	♦TCY	
	TSI	
2N3913	△♦RTN	346 - 36
CRI	SDE	134 - 46
♦SES	SSI	
TADI	♦TCY	
	TSI	
2N3914	△♦RTN	134 - 59
CRI	SDE	346 - 37
♦SES	SSI	
TADI	♦TCY	
	TSI	
2N3915	CRI	346 - 38
SDE	♦SES	134 - 70
SSI	TADI	
♦TCY	TSI	
2N3916	CRI	239 - 53
♦GDC	SCA	
♦SES	SSI	
2N3917	AMC	234 - 23
CRI	ETC	
GTC	IDI	
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N3917		
(cont.)	KER	
SCA	SDE	
♦SES	SOD	
SSI	STC	
	TRW	
2N3918	AMC	234 - 24
CRI	GTC	
IDI	KER	
SCA	SDE	
♦SES	SOD	
SSI	STC	
	TRW	
2N3919	AMC	252-104
CRI	IDI	318 - 72
KER	SCA	
SDE	♦SES	
SSI	STC	
	TRW	
2N3920	AMC	318 - 73
CRI	IDI	252-105
KER	SCA	
SDE	♦SES	
SPE	SSI	
STC	TRW	
2N3921	△♦TSC	192-100
CEN	CRI	340 - 67
INL	NSC	
♦SIX	♦SODI	
	SST	
2N3922	△♦TSC	340 - 68
CEN	CRI	192-101
INL	NSC	
♦SIX	♦SODI	
	SST	
2N3923	CRI	183 - 16
♦GDC	GTC	
IDI	NASB	
SCA	SPE	
	SSI	
2N3924	△♦MOTA	239 - 54
♦APX	CRI	
GTC	♦PHIN	
♦SES	SPE	
♦SSS	TADI	
TIC	♦VALG	
2N3925	△♦MOTA	242 - 76
CRI	GTC	
	SPE	
2N3926	△♦MOTA	244 - 5
♦APX	CRI	
♦PHIN	♦SES	
SSI	♦SSS	
TADI	TIC	
	♦VALG	
2N3927	△♦MOTA	249 - 29
♦APX	CRI	
♦PHIN	♦SES	
SSI	♦SSS	
TADI	TIC	
	♦VALG	
2N3928	△SOD	241 - 23
AMC	CRI	294 - 81
GTC	IDI	
	SDE	
2N3929	△SOD	294 - 82
AMC	CRI	252-106
CSR	GTC	
IDI	♦KER	
2N3930	CRI	134 - 99
♦GDC	IDI	
SCA	SGAI	
	STI	
2N3931	CRI	140 - 86
♦GDC	GTC	
IDI	SCA	
SGAI	STI	
2N3932	CRI	151 - 36
GTC	IDI	
MEHK	NSC	
NTR	♦SCA	
	SSI	
2N3933	CEC	151 - 37
CRI	GTC	
IDI	MEHK	
NSC	NTR	
♦SCA	SEI	
	SSI	
2N3934	△♦TSC	192-102
CEN	CRI	340 - 69
2N3935	△♦TSC	340 - 70
CEN	CRI	192-103
2N3945	△TEC	237 - 4
CEN	CRI	
CSR	ETC	
GTC	IDI	
ITT	KER	
MEHK	NASB	
NJS	NSC	
NTR	SCA	
SDE	♦SES	
SLD	SPE	
SSI	SST	
	TADI	
2N3946	△♦MOTA	312 - 82
CEN	CRI	167 - 4
CSR	GTC	
IDI	MEHK	
NASB	NJS	
NSC	NTR	
SCA	SSI	
	TADI	
2N3947	△♦MOTA	167 - 53
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N3947		
(cont)	CEN	312 - 83
CRI	CSR	
♦DEF	ETC	
FSC	GTC	
IDI	MEHK	
NASB	NJS	
NSC	NTR	
SCA	SEI	
SPE	SSI	
	TADI	
2N3948	△♦MOTA	237 - 5
CRI	CSR	
GTC	IDI	
KER	SCA	
SES	SPE	
SSI	SSS	
TIC	TIIB	
	TRW	
2N3950	△♦MOTA	261 - 17
CRI	KER	
SCA	SES	
	SSI	
2N3953	△♦MIC	152 - 9
CRI	SCA	
	SSI	
2N3954	△♦SODI	192-104
AMR	CEN	340 - 71
CRI	♦INL	
NSC	♦SIX	
SPE	SST	
TADI	TIID	
	TSC	
2N3954A	△♦SODI	340 - 72
CEN	INL	192-105
NSC	♦SIX	
TADI	TIID	
	TSC	
2N3955	△♦SODI	192-106
CEN	CRI	340 - 73
♦INL	NSC	
♦SIX	SST	
TADI	TIID	
	TSC	
2N3955A	△♦SODI	340 - 74
CEN	INL	192-107
NSC	♦SIX	
TADI	TIID	
	TSC	
2N3956	△♦SODI	192-108
CEN	CRI	340 - 75
♦INL	NSC	
♦SIX	SPE	
SST	TADI	
TIID	TSC	
2N3957	△♦SODI	340 - 76
CEN	CRI	192-109
♦INL	NSC	
♦SIX	SST	
TADI	TIID	
	TSC	
2N3958	△♦SODI	192-110
CEN	CRI	340 - 77
♦INL	NSC	
SEI	♦SIX	
SPE	SST	
TADI	TIID	
	TSC	
2N3959	△♦MOTA	170 - 25
CRI	GTC	288 - 31
NASB	RTN	
SCA	SPE	
	SSI	
JAN2N3959	MOTA	170 - 16
2N3960	△♦MOTA	170 - 28
CRI	GTC	288 - 32
NASB	RTN	
SCA	SSI	
JAN2N3960	MOTA	170 - 26
2N3961	△♦MOTA	242 - 95
CRI	GTC	
SCA	SPE	
SSI	TADI	
2N3962	△♦FSC	132 - 25
CEN	CRI	
CSR	GTC	
IDI	INTG	
ITT	ITTB	
MEHK	NASB	
NSC	NTR	
SCA	♦SES	
SGAI	SLD	
SPE	SST	
TADI	♦TII	
TIIB	TIID	
TIIF	UPI	
2N3963	CEN	132 - 26
CRI	CSR	
GTC	IDI	
INTG	ITT	
MEHK	NASB	
NSC	NTR	
SCA	♦SES	
SGAI	SLD	
SST	TADI	
♦TII	TIIB	
TIID	TIIF	
UPI	♦VALG	
2N3964	△♦FSC	132 - 35
CEN	CRI	
CSR	GTC	
IDI	INTG	
ITT	ITTB	
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N3964		
(cont.)	MEHK	
NASB	NSC	
NTR	SCA	
♦SES	SGAI	
SLD	SPE	
SST	TADI	
♦TII	TIIB	
TIID	TIIF	
UPI	♦VALG	
2N3965	△♦FSC	132 - 36
CEN	CRI	
CSR	GTC	
IDI	ITT	
♦ITTB	MEHK	
NASB	NSC	
NTR	SCA	
♦SES	SGAI	
SLD	SPE	
SST	TADI	
♦TII	TIIB	
TIID	TIIF	
UPI		
2N3966	△♦TSC	194 - 2
AMX	CEN	303 - 72
CRI	CSR	
ELMA	INL	
LTTF	MEHK	
MISI	♦MULB	
NASB	NPC	
NSC	♦PHIN	
♦RTCF	♦SIX	
♦SODI	TADI	
TCY	THCF	
♦TII	TIIB	
TIID	TIIF	
UPI	♦VALG	
2N3967	△♦TSC	194 - 3
AMX	CEN	
CRI	INL	
NASB	NSC	
SODI	TADI	
2N3967A	△♦TSC	194 - 4
AMX	CEN	
INL	NSC	
SODI	TADI	
2N3968	△♦TSC	194 - 5
AMX	CEN	
CRI	INL	
NASB	NSC	
SODI	SPE	
	TADI	
2N3968A	△♦TSC	194 - 6
AMX	CEN	
INL	NASB	
NSC	SODI	
	TADI	
2N3969	AMX	194 - 7
CEN	CRI	
INL	NASB	
NSC	SODI	
TADI	♦TSC	
2N3969A	△♦TSC	194 - 8
AMX	CEN	
INL	NASB	
NSC	SODI	
	TADI	
2N3970	△♦SODI	201 - 45
AMX	CEN	289 - 22
CRI	INL	
MEHK	♦MOTA	
NASB	♦NSC	
♦SIX	SLD	
TADI	♦TII	
TIIB	TIID	
TIIF	♦TSC	
2N3971	△♦SODI	290 - 45
AMX	CEN	201 - 46
CRI	INL	
MEHK	♦MOTA	
NASB	♦NSC	
♦SIX	SLD	
TADI	♦TII	
TIIB	TIID	
TIIF	♦TSC	
2N3972	△♦SODI	201 - 47
AMX	CEC	296 - 55
CEN	CRI	
INL	MEHK	
♦MOTA	NASB	
♦NSC	♦SIX	
SLD	SPE	
TADI	♦TII	
TIIB	TIID	
TIIF	♦TSC	
2N3973	CRI	300 - 99
IDC	SPE	166 - 88
	STI	
2N3974	CRI	166 - 89
IDC	SPE	300-100
	STI	
2N3975	CEN	300-101
CRI	CSR	166 - 90
IDC	NASB	
SES	SLD	
♦SPR	SST	
2N3976	CEN	166 - 91
CRI	CSR	300-102
IDC	NASB	
SES	SLD	
♦SPR	SST	
2N3977	△♦SPR	134 - 13
CRI	IDC	346 - 39
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TYPE No.	MFRS	Pg&Line
2N4062		
(cont.)	CEN	
	CRI	CSR
	GDC	IDI
	ITT	MEHK
	NASB	NPC
	NSC	NTR
	SEI	SES
	SLD	SPE
	♦SPR	STI
	TIIB	TIIC
		TIID
2N4063	△♦RCA	242 - 96
	CRI	♦GDC
	RCAB	SCA
	SPE	SSI
	STC	STI
2N4064	△♦RCA	242 - 97
	CRI	♦GDC
	RCAB	SCA
	SSI	STC
		STI
2N4065	CRI	307 - 44
	♦GIC	SPE 189 - 93
2N4066	CRI	190 - 46
	♦GIC	INL 293 - 93
		♦MOTA
2N4067	CRI	293 - 94
	♦GIC	INL 190 - 47
	♦MOTA	SPE
2N4068	CRI	172 - 48
	SPE	SSI
2N4069	CRI	231 - 84
	SSI	STC
2N4070	♦AMC	252 - 89
	AMR	CRI 316 - 63
	CSR	♦GDC
	♦GSE	GTC
	IDI	♦KER
	SCA	SDE
	♦SES	SOD
	SSI	♦STC
	TEC	TRW
		UNI
2N4071	AMC	316 - 64
	CRI	CSR 252 - 90
	♦GSE	GTC
	IDI	♦KER
	SCA	SDE
	♦SES	♦SOD
	SSI	♦STC
	TEC	TRW
2N4072	△♦MOTA	165 - 18
	CRI	GTC
	IDI	SCA
	SPE	SSI
		UPI
2N4073	△♦MOTA	232 -102
	CRI	CSR
	GTC	IDI
	NASB	SCA
	SPE	SSI
		TIC
2N4074	CRI	168 - 67
	SCA	SPE
	SSI	STI
		TEC
2N4075	AMC	252 - 53
	CRI	GSE 312 - 19
	SCA	SSI
	♦STC	TEC
	TRW	UNI
2N4076	AMC	312 - 20
	CRI	GSE 252 - 54
	GTC	IDI
	SCA	SSI
	♦STC	TEC
	TRW	UNI
2N4077	△♦APX	212 - 33
	CRI	PHIC
		SPE
2N4078	△♦APX	211 - 80
	AMR	CRI
	GPD	PHIC
		SPE
2N4079	△♦APX	338 - 52
	CRI	PHIC
2N4080	CRI	129 -100
	♦DEF	GTC
	IDI	SCA
	SDE	♦SES
	SPE	TADI
2N4082	△♦TSC	340 - 91
	CEN	CRI
	INL	SODI
2N4083	△♦TSC	340 - 92
	CEN	CRI
	INL	SODI
		SPE
2N4084	△♦TSC	340 - 93
	CEN	CRI
	INL	NSC
	♦SIX	SODI
	SPE	SST
2N4085	△♦TSC	340 - 94
	CEN	CRI
	INL	NSC
	♦SIX	SODI
2N4086	CRI	148 - 5
		PHIN
2N4087	CRI	148 - 6
		STI
2N4087A	STI	148 - 7

TYPE No.	MFRS	Pg&Line
2N4090	CRI	189 - 8
	MISI	
2N4091	△♦TSC	201 - 48
	AMEN	AMX
	CEN	CRI
	CSR	ELMA
	INL	MEHK
	♦MOTA	NASB
	NPC	♦NSC
	♦PHIN	♦RTCF
	♦SIX	SLD
	♦SODI	SPE
	TADI	THCF
	♦TII	TIIB
	TIID	TIIF
		♦VALG
JAN2N4091	INL	198 - 50
	NSC	289 - 23
2N4091A	NASB	289 - 24
		201 - 49
2N4092	△♦TSC	201 - 50
	AMEN	AMX
	CEN	CRI
	CSR	ELMA
	INL	MEHK
	MISI	♦MOTA
	NASB	NPC
	♦NSC	♦PHIN
	♦RTCF	♦SIX
	SLD	♦SODI
	SPE	TADI
	THCF	♦TII
	TIIB	TIID
	TIIF	♦VALG
JAN2N4092	INL	198 - 51
	NSC	291 - 84
2N4092A	NASB	291 - 85
		201 - 51
2N4093	△♦TSC	201 - 52
	AMEN	AMX
	CEN	CRI
	CSR	ELMA
	INL	MEHK
	MISI	♦MOTA
	NASB	NPC
	♦NSC	♦PHIN
	♦RTCF	♦SIX
	SLD	♦SODI
	SPE	TADI
	THCF	♦TII
	TIIB	TIID
	TIIF	♦VALG
JAN2N4093	INL	198 - 52
	NSC	296 - 56
2N4093A	NASB	296 - 57
		201 - 53
2N4100	CRI	169 - 44
	♦INL	STI 340 - 95
		TADI
2N4104	△♦TII	161 - 25
	CRI	GTC
	IDI	SCA
	SPE	SST
	TIIB	TIID
		TIIF
2N4105	AMR	212 - 7
	♦APX	CRI
	GTC	IDI
	PHIC	SPE
		SST
2N4106	♦APX	202 - 53
	CEN	CRI
	GTC	IDI
	PHIC	SPE
2N4107	♦APX	338 - 53
	CRI	PHIC
		SPE
2N4111	AMC	259 - 63
	CRI	CSI
	CSR	♦ETC
	GSE	GTC
	IDI	♦KER
	NJS	PPC
	SCA	SDE
	SLD	SOD
	SSI	SST
	STC	TRW
		UPI
2N4112	AMC	259 - 64
	CRI	CSR
	♦ETC	GSE
	GTC	IDI
	♦KER	NJS
	PPC	SCA
	SDE	SLD
	SOD	SSI
	SST	STC
	TRW	UPI
2N4113	AMC	259 - 65
	CRI	CSI
	CSR	GSE
	GTC	IDI
	♦KER	PPC
	SCA	SDE
	SLD	SOD
	SSI	SST
	STC	TRW
		UPI
2N4114	AMC	259 - 66
	CRI	CSR
	GSE	IDI
	KER	PPC
	SCA	SDE

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TYPE No.	MFRS	Pg&Line
2N4114		
(cont.)	SLD	
	SSI	SST
	STC	TRW
		UPI
2N4115	AMC	260 - 98
	CRI	GSE
	GTC	IDI
	SCA	SSI
	♦STC	TRW
		UNI
2N4116	AMC	260 - 99
	CRI	GSE
	GTC	IDI
	SCA	SEI
	SPE	SSI
	♦STC	TRW
	UNI	UPI
2N4117	△♦SIX	194 - 9
	♦INL	♦MOTA
	NASB	NSC
	SODI	TSC
2N4117A	△♦SIX	194 - 10
	♦INL	♦MOTA
	NASB	NSC
	SODI	TSC
2N4118	△♦SIX	194 - 11
	CRI	♦INL
	♦MOTA	NASB
	NSC	SODI
	SPE	TSC
2N4118A	△♦SIX	194 - 12
	♦INL	♦MOTA
	NASB	NSC
	SODI	SPE
		TSC
2N4119	△♦SIX	194 - 13
	CRI	♦INL
	♦MOTA	NASB
	NSC	SODI
		TSC
2N4119A	△♦SIX	194 - 14
	♦INL	♦MOTA
	NASB	NSC
	SODI	SPE
		TSC
2N4120	CRI	189 - 94
	♦GIC	SPE 307 - 45
2N4121	CEN	298 - 19
	CRI	CSR 123 - 76
	DEF	IDC
	IDI	MEHK
	NASB	NSC
	♦SES	SLD
	SPE	SST
	STI	UPI
2N4122	CEN	123 - 81
	CRI	CSR 298 - 20
	♦DEF	IDC
	IDI	MEHK
	NASB	NSC
	♦SES	SLD
	SPE	SST
	STI	TSI
		UPI
2N4123	△♦MOTA	164 - 83
	CEN	CRI
	CSR	♦DEF
	♦FERB	FSC
	♦GDC	IDC
	IDI	ITT
	MEHK	NASB
	NPC	NSC
	NTR	RHM
	SES	SLD
	SPE	♦SPR
	SST	STI
	♦TII	TIIB
		UPI
2N4124	△♦MOTA	165 - 19
	CEN	CRI
	CSR	♦DEF
	♦FERB	FSC
	♦GDC	IDI
	ITT	MEHK
	NASB	NPC
	NSC	NTR
	RHM	SES
	SLD	SPE
	♦SPR	SST
	STI	♦TII
	TIIB	UPI
2N4125	△♦MOTA	131 - 30
	CEN	CRI
	♦DEF	♦FERB
	FSC	♦GDC
	IDC	IDI
	ITT	NASB
	NPC	NSC
	NTR	RHM
	SEI	SES
	SLD	SPE
	♦SPR	SST
	STI	♦TII
2N4126	△♦MOTA	131 - 61
	CEN	CRI
	CSR	♦DEF
	♦FERB	FSC
	♦GDC	IDI
	ITT	NASB
	NPC	NSC
	NTR	RHM

cont.next col.

TYPE No.	MFRS	Pg&Line
2N4126		
(cont.)	SEI	
	SES	SLD
	SPE	♦SPR
	SST	STI
	♦TII	TIIB
		UPI
2N4127	△♦TRW	250 - 55
	CRI	FERB
	♦SES	SPE
		TIC
2N4128	△♦TRW	255 - 5
	CRI	FERB
	♦SES	TIC
2N4130	AMC	271 - 74
	CRI	IDI
	♦MOTA	SCA
	SDE	SES
		SSI
2N4131	CRI	261 - 18
	IDI	KER
	SCA	SSI
2N4132	CRI	241 - 28
		SSI
2N4133	CRI	234 - 25
	IDI	KER
	SCA	SSI
2N4134	CEN	150 - 67
	CRI	CSR
	ETC	GTC
	IDC	IDI
	NASB	NJS
	NSC	NTR
	SCA	SGAI
	SPE	SSI
		TADI
2N4135	CEN	150 - 94
	CRI	CSI
	CSR	ETC
	GTC	IDI
	NASB	NJS
	NSC	NTR
	SCA	SGAI
	SSI	TADI
2N4136	△♦APX	338 - 54
	CRI	SPE
2N4137	CEN	168 - 22
	CRI	CSR 288 -101
	♦DEF	GTC
	IDI	ITT
	NASB	RTN
	SCA	SDE
	♦SES	TADI
2N4138	△♦TII	156 - 13
	CRI	SLD
	SST	♦TCY
	TIID	TIIF
2N4139	△♦TSC	194 - 15
	AMX	CEN
	CRI	INL
	MEHK	NASB
	NSC	SODI
2N4140	CEN	159 - 65
	CRI	CSR 297 - 80
	ETC	IDI
	MEHK	NASB
	NJS	NSC
	♦SES	SLD
	SPE	SST
		STI
2N4141	CEN	297 - 81
	CRI	CSR 159 - 66
	ETC	IDI
	MEHK	NASB
	NJS	NSC
	♦SES	SLD
	SPE	SST
		STI
2N4142	CEN	128 - 9
	CRI	CSI 297 - 14
	CSR	IDI
	MEHK	NASB
	NSC	♦SES
	SLD	SPE
	SST	STI
2N4143	CEN	297 - 15
	CRI	CSI 128 - 10
	CSR	DIT
	IDI	MEHK
	NASB	NSC
	SEI	♦SES
	SLD	SPE
	SST	STI
2N4150	♦AMC	308 - 73
	AMR	CRI 241 - 29
	CSR	♦GSE
	GTC	IDI
	♦KER	PPC
	SCA	SDE
	♦SES	SLD
	SOD	♦SSI
	SST	♦STC
	STI	TEC
	TRW	♦UNI
JAN2N4150	AMC	241 - 30
	GSE	SOD 318 - 48
	TEC	UNI
2N4207	CEN	129 - 90
	CRI	CSR 291 - 9
	♦DEF	GTC
	IDI	NASB
	SCA	SPE
		TADI

TYPE No.	MFRS	Pg&Line
2N4208	△♦FSC	291 - 11
	CEN	CRI 129 - 92
	CSR	♦DEF
	GTC	IDI
	MEHK	♦MOTA
	NASB	NSC
	NTR	SCA
	SPE	SST
		TADI
2N4209	△♦FSC	129 - 96
	CEN	CRI 291 - 24
	CSR	♦DEF
	GTC	IDI
	MEHK	♦MOTA
	NASB	NSC
	NTR	SCA
		TADI
2N4210	△♦TEC	274 -108
	AMC	CSR
	GSE	GTC
	IDI	♦KER
	SCA	SDE
	♦SES	SOD
	SPC	SSI
	♦STC	TRW
2N4211	△♦TEC	274 -109
	AMC	CRI
	CSR	GSE
	GTC	IDI
	♦KER	SCA
	SDE	♦SES
	SOD	SPC
	SSI	♦STC
		TRW
2N4220	△♦MOTA	194 - 16
	AMX	CEN
	CRI	DIT
	INL	MEHK
	MISI	NASB
	NPC	NSC
	♦SIX	SODI
	SPE	TADI
	TCY	THCF
	♦TII	TIIB
	TIID	TSC
		♦VALG
2N4220A	△♦MOTA	194 - 17
	AMX	CEN
	INL	MISI
	NASB	NPC
	NSC	SEI
	♦SIX	SODI
	SPE	SST
	THCF	♦TII
	TIIB	TIID
		TSC
2N4221	△♦MOTA	194 - 18
	AMX	CEN
	CRI	DIT
	INL	MEHK
	MISI	NASB
	NPC	NSC
	♦SIX	SODI
	SPE	TADI
	TCY	THCF
	♦TII	TIIB
	TIID	TSC
	UPI	♦VALG
2N4221A	△♦MOTA	194 - 19
	AMX	CEN
	INL	MISI
	NASB	NPC
	NSC	♦SIX
	SODI	SST
	TADI	THCF
	♦TII	TIIB
	TIID	TSC
	UPI	♦VALG
2N4222	△♦MOTA	194 - 20
	AMX	CEN
	CRI	DIT
	INL	MEHK
	MISI	NASB
	NPC	NSC
	♦SIX	SODI
	SPE	TADI
	TCY	THCF
	♦TII	TIIB
	TIID	TSC
	UPI	♦VALG
2N4222A	△♦MOTA	194 - 21
	AMX	CEN
	INL	MISI
	NASB	NPC
	NSC	♦SIX
	SODI	TADI
	THCF	♦TII
	TIIB	TIID
	TSC	UPI
2N4223	△♦MOTA	194 - 22
	AMX	CEN
	CRI	DIT
	INL	MEHK
	NASB	♦NSC
	♦SIX	SODI
	SPE	TADI
	TCY	♦TII
	TIIB	TIID
	TSC	UPI
2N4224	△♦MOTA	194 - 23
	AMX	CEN
	CRI	DIT
	INL	MEHK

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TYPE No.	MFRS	Pg&Line
2N4339 (cont.)	♦NSC	
SODI	TSC	
2N4340	Δ♦SIX	194 - 29
AMR	AMX	
CEN	CRI	
INL	MEHK	
NASB	♦NSC	
SODI	SPE	
TADI	TSC	
2N4341	Δ♦SIX	194 - 30
AMX	CEN	
♦INL	MEHK	
NASB	♦NSC	
SODI	TADI	
	TSC	
2N4342	CEN	188 - 39
INL	♦MOTA	
NASB	NSC	
SODI	SPE	
SST	TSC	
2N4343	CEN	188 - 40
INL	NASB	
NSC	SODI	
SPE	SST	
	TSC	
2N4346	CSR	202-100
♦GPD	SPE	
	SST	
2N4347	Δ♦RCA	266 - 29
AMC	CRI	
GTC	IDI	
KER	♦MISI	
♦MULB	NASB	
NPC	♦PHIN	
PPC	RCAB	
♦RTCF	SCA	
SDE	♦SEN	
♦SES	SIEG	
SOD	♦SPC	
SPE	♦STC	
STI	TEC	
♦THCF	UPI	
	♦WESY	
2N4348	Δ♦RCA	270 - 66
AMC	CRI	
CSR	FSC	
GTC	IDI	
KER	♦MISI	
NASB	NPC	
PPC	RCAB	
SCA	SDE	
♦SEN	♦SES	
SLD	SOD	
♦SPC	SPE	
SST	♦STC	
TEC	♦THCF	
UPI	♦WESY	
2N4349	IDI	239 - 55
KER	SCA	296 - 32
SSI	TEC	
	UPI	
2N4350	CSR	239 - 56
IDI	KER	
SCA	♦SES	
	SSI	
2N4351	Δ♦MOTA	301 - 64
CRI	CSR	194 - 31
♦GIC	INL	
	SPE	
2N4352	Δ♦MOTA	189 - 9
CRI	GIC	301 - 65
	SPE	
2N4353	Δ♦GIC	300 - 74
CRI	INL	188 - 82
2N4354	Δ♦FSC	130 - 94
CEN	CSR	305 - 17
♦DEF	IDI	
MEHK	NASB	
NSC	SES	
SLD	SPE	
SST	STI	
2N4355	Δ♦FSC	305 - 18
CEN	CRI	130 - 95
CSR	♦DEF	
IDI	MEHK	
NASB	NSC	
SEI	SLD	
SPE	SST	
STI	UPI	
2N4356	Δ♦FSC	130 - 96
CEN	CRI	305 - 19
CSR	♦DEF	
IDI	MEHK	
NASB	NSC	
SEI	SLD	
SPE	SST	
	STI	
2N4357	CSR	134-105
SCA	STI	
2N4358	CSR	140 - 87
GTC	IDI	
SCA	SGAI	
SPE	SSI	
SST	STI	
2N4359	CEN	132 - 89
CSR	GTC	
IDI	ITT	
SCA	♦SES	
SGAI	SSI	
	SST	
2N4360	CEN	188 - 41
INL	MEHK	
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N4360 (cont.)	♦MOTA	
NASB	NSC	
SODI	SPE	
	TSC	
2N4381	AMR	189 - 10
AMX	CEN	
INL	NASB	
NSC	SODI	
2N4382	AMX	189 - 11
CEN	INL	
NASB	NSC	
	SODI	
2N4383	Δ♦SPR	184 - 91
CEN	CSR	
IDC	IDI	
SCA	SES	
	SPE	
2N4384	Δ♦SPR	173 - 49
CEN	CSR	
GTC	IDC	
IDI	MEHK	
NSC	NTR	
SCA	SES	
SPE	TEC	
	TIIF	
2N4385	Δ♦SPR	184 - 92
CEN	CSR	
IDC	IDI	
SCA	SES	
	SPE	
2N4386	Δ♦SPR	173 - 50
CEN	CSR	
GTC	IDC	
IDI	MEHK	
NSC	NTR	
SCA	SES	
	TEC	
2N4387	Δ♦TEC	219 - 28
AMC	CSR	
GTC	♦KER	
NASB	♦SES	
SLD	SOD	
SSI	SST	
	STC	
2N4388	Δ♦TEC	219 - 29
AMC	CSR	
GTC	♦KER	
NASB	♦SES	
SLD	SOD	
SSI	SST	
	STC	
2N4389	CEN	290 - 95
	CSR	123 - 77
2N4390	SCA	318 - 3
	SPE	
2N4391	Δ♦SODI	201 - 54
AMX	CEN	288 - 58
CSR	ELMA	
♦INL	MEHK	
MISI	♦MOTA	
♦MULB	NASB	
♦NPC	♦NSC	
♦PHIN	RTCF	
♦SIX	SLD	
SPE	SST	
TADI	♦TCY	
THCF	♦TII	
TIIB	TIID	
TIIF	TSC	
TSI	UPI	
	♦VALG	
2N4392	Δ♦SODI	288 - 59
AMX	CEN	201 - 55
CRI	CSR	
ELMA	♦INL	
MEHK	MISI	
♦MOTA	♦MULB	
NASB	♦NPC	
♦NSC	♦PHIN	
RTCF	♦SIX	
SLD	SPE	
♦TCY	THCF	
♦TII	TIIB	
TIID	TIIF	
TSC	TSI	
UPI	♦VALG	
2N4393	Δ♦SODI	201 - 56
AMX	CEN	288 - 60
CRI	CSR	
ELMA	♦INL	
MEHK	MISI	
♦MOTA	♦MULB	
NASB	♦NPC	
♦NSC	♦PHIN	
RTCF	♦SIX	
SLD	SPE	
♦TCY	THCF	
♦TII	TIIB	
TIID	TIIF	
TSC	TSI	
UPI	♦VALG	
2N4395	CSR	263 - 99
GTC	IDI	320 - 67
KER	PPC	
SCA	SDE	
SLD	SOD	
SSI	SST	
STC	TEC	
	TRW	
2N4396	CSR	321 - 44
GTC	IDI	263-100
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N4396 (cont.)	KER	
PPC	SCA	
SDE	SLD	
SOD	SSI	
SST	STC	
TEC	TRW	
2N4397	STI	151 - 17
2N4398	Δ♦MOTA	227 - 17
AMC	CRI	314 - 5
CSR	♦FSC	
GTC	IDI	
INR	PPC	
♦SES	SPE	
SSI	♦STC	
TEC	♦TII	
	TIIB	
2N4399	Δ♦MOTA	314 - 6
AMC	CSR	227 - 18
♦FSC	GTC	
IDI	INR	
KER	PPC	
♦SES	SPE	
SSI	♦STC	
TEC	♦TII	
	TIIB	
JAN2N4399	MOTA	227 - 19
	TEC	314 - 53
2N4400	Δ♦MOTA	292 - 29
CEN	CRI	164 - 52
CSR	♦DEF	
DIT	♦FERB	
FSC	GDC	
GTC	IDI	
ITT	MEHK	
NASB	NJS	
NSC	NTR	
RHM	SEI	
SES	SPE	
♦SPR	SST	
	STI	
2N4401	Δ♦MOTA	164 - 84
CEN	CRI	292 - 41
CSR	♦DEF	
DIT	♦FERB	
FSC	♦GDC	
GTC	IDI	
ITT	MEHK	
NASB	NJS	
NPC	NSC	
NTR	RHM	
SEI	SES	
SPE	♦SPR	
SST	STI	
2N4402	Δ♦MOTA	292 - 17
CEN	CRI	131 - 15
CSR	♦DEF	
DIT	♦FERB	
FSC	GDC	
GTC	IDC	
IDI	ITT	
MEHK	NASB	
NJS	NPC	
NSC	NTR	
RHM	SEI	
SES	SPE	
♦SPR	SST	
STI	TII	
2N4403	Δ♦MOTA	131 - 31
CEN	CRI	292 - 30
CSR	♦DEF	
DIT	♦FERB	
FSC	GDC	
GTC	IDI	
ITT	MEHK	
NASB	NJS	
NPC	NSC	
NTR	RHM	
SEI	SES	
SPE	♦SPR	
SST	STI	
	TII	
2N4404	Δ♦MOTA	293 - 9
AMR	CRI	215-101
DIT	GTC	
NASB	SCA	
SES	SSI	
SST	TADI	
	TEC	
2N4405	Δ♦MOTA	215-102
CRI	CSR	293 - 10
DIT	GTC	
IDI	NASB	
SCA	SES	
SSI	SST	
TADI	TEC	
JAN2N4405	MOTA	293 - 77
	TEC	214 - 43
2N4406	Δ♦MOTA	215-103
AMR	CSR	300 - 93
DIT	GTC	
IDI	NASB	
SCA	SES	
SSI	TEC	
	♦VALG	
2N4407	Δ♦MOTA	300 - 94
CSR	DIT	215-104
GTC	IDI	
NASB	SCA	
SES	SPE	
SSI	TEC	
	♦VALG	
2N4409	Δ♦MOTA	179 - 37
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TYPE No.	MFRS	Pg&Line
2N4409 (cont.)	CEN	
CSR	♦DEF	
DIT	GTC	
IDI	MEHK	
NASB	NPC	
NSC	NTR	
SEI	SPE	
SST	STI	
	TII	
2N4410	Δ♦MOTA	179 - 38
CEN	CSR	
♦DEF	DIT	
FSC	♦GDC	
GTC	IDI	
MEHK	NASB	
NPC	NSC	
NTR	SPE	
SST	STI	
	TII	
2N4411	GTC	122 - 64
	IDI	
2N4412	Δ♦SPR	138 - 30
CEN	CSI	
CSR	IDC	
IDI	SES	
STI	UPI	
2N4412A	Δ♦SPR	138 - 31
CEN	CSR	
IDC	IDI	
SES	SPE	
STI	UPI	
2N4413	Δ♦SPR	134 - 85
CEN	CSR	
IDC	IDI	
SES	SPE	
STI	UPI	
2N4413A	Δ♦SPR	134 - 86
CEN	CSR	
IDC	IDI	
SES	STI	
	UPI	
2N4414	Δ♦SPR	138 - 32
CEN	CSI	
CSR	IDC	
IDI	MEHK	
SES	STI	
	UPI	
2N4414A	Δ♦SPR	138 - 33
CEN	CSR	
IDC	IDI	
SES	STI	
	UPI	
2N4415	Δ♦SPR	134 - 87
CEN	CSR	
IDC	IDI	
SES	STI	
	UPI	
2N4415A	Δ♦SPR	134 - 88
CEN	CSR	
IDC	IDI	
SES	STI	
	UPI	
2N4416	Δ♦SODI	194 - 32
AMX	CEN	
CSR	♦INL	
MEHK	MISI	
♦MOTA	NASB	
♦NPC	♦NSC	
♦SIX	SLD	
SPE	TADI	
♦TCY	THCF	
♦TII	TIIB	
TIID	TIIF	
♦TSC	TSI	
UPI	♦VALG	
2N4416A	ΔSODI	194 - 33
AMX	CEC	
CEN	INL	
NASB	♦NSC	
♦SIX	SLD	
TADI	♦TCY	
♦TII	TIIB	
TIID	TIIF	
♦TSC	TSI	
	UPI	
JAN2N4416A	NSC	194 - 34
	TII	
2N4417	Δ♦SODI	191-104
AMR	MEHK	
♦SIX	SPE	
2N4418	ITT	168 - 23
	SPE	289-104
2N4420	SPE	289 - 57
		167 - 88
2N4421	SPE	167 - 56
		289 - 76
2N4422	SPE	290 - 79
		167 - 89
2N4423	IDI	133 - 39
MEHK	♦TII	295 - 8
2N4424	Δ♦GESY	165-108
CEN	CRI	
CSR	IDC	
IDI	MEHK	
MISI	NASB	
NPC	NSC	
NTR	SES	
SLD	SPE	
♦SPR	SST	
STI	THCF	
	UPI	
2N4425	Δ♦GESY	175-109
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TYPE No.	MFRS	Pg&Line
2N4425 (cont.)	CEN	
CRI	CSR	
IDC	MISI	
NASB	NPC	
NTR	SES	
SLD	SPE	
♦SPR	STI	
THCF	UPI	
2N4427	Δ♦RCA	234 - 26
♦APX	CRI	
♦FERB	GTC	
IDI	MOTA	
♦MULB	NASB	
♦PHIC	♦PHIN	
SCA	SEI	
♦SES	SGAI	
SPE	♦SSS	
SST	TADI	
TIC	UPI	
	♦VALG	
2N4428	Δ♦TRW	234 - 27
CRI	CSR	
FERB	GTC	
IDI	♦MOTA	
NASB	RTN	
SCA	♦SES	
♦SSS	TADI	
TIC	UPI	
2N4429	Δ♦TRW	237 - 6
CRI	FERB	
♦SES	♦SSS	
TADI	TIC	
TIID	TSI	
	UPI	
2N4430	Δ♦TRW	242 - 98
CRI	FERB	
♦SES	♦SSS	
TADI	TIC	
	UPI	
2N4431	Δ♦TRW	248 - 31
CRI	FERB	
IDI	♦SES	
♦SSS	TADI	
TIC	UPI	
2N4432	ΔLTTF	178 - 25
CRI	TIIF	
2N4432A	LTTF	178 - 26
2N4433	CSR	146-103
ETC	NJS	
	PHIC	
2N4434	STI	144 - 45
2N4435	STI	144 - 42
2N4436	CEN	149 - 36
CSR	DEF	300 - 95
SLD	SST	
	STI	
2N4437	CEN	301 - 33
CSR	DEF	150 - 14
IDC	SLD	
SST	STI	
2N4438	ETC	238 - 84
IDI	NJS	
SCA	SSI	
	STI	
2N4439	IDI	238 - 85
SCA	SSI	
	STI	
2N4440	Δ♦RCA	243 - 85
DIT	MOTA	
NPC	♦SES	
SPE	♦SSS	
TADI	TIC	
JAN2N4440	RCA	244 - 13
2N4445	INL	291 - 86
NASB	♦SIX	200 - 30
SPE	♦TCY	
TIID	TSC	
	TSI	
2N4446	INL	200 - 31
MISI	NASB	291 - 87
NPC	♦SIX	
♦TCY	THCF	
TIID	TSC	
	TSI	
2N4447	INL	291 - 88
NASB	♦SIX	200 - 32
♦TCY	TIID	
TSC	TSI	
2N4448	INL	200 - 33
MISI	NASB	291 - 89
NPC	♦SIX	
♦TCY	THCF	
TIID	TSC	
	TSI	
2N4449	RTN	301 - 59
	SCA	161 - 17
JAN2N4449	MOTA	161 - 18
	TEC	289-105
2N4450	MOTA	300 - 68
	SST	167 - 5
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2N4453	GTC	292 - 58
	♦MOTA	129 - 78
JAN2N4453	MOTA	129 - 79
	TEC	300 - 63
2N4851	Δ♦MOTA	345 - 29
CEN	CRI	
SES	SPE	
TADI	♦TII	
2N4852	Δ♦MOTA	345 - 30
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TYPE No.	MFRS	Pg&Line
2N4920		
(cont.)	GTC	
	IDI	
	NJS	
	♦PPC	
	SST	
	UPI	
2N4921	Δ♦MOTA	255 - 17
	GTC	
	IDI	
	NASB	
	NJS	
	NSC	
	♦PPC	
	SPE	
	SST	
	UPI	
2N4922	Δ♦MOTA	255 - 18
	GTC	
	IDI	
	NASB	
	NJS	
	NSC	
	♦PPC	
	SPE	
	SST	
	UPI	
2N4923	Δ♦MOTA	255 - 19
	GTC	
	IDC	
	IDI	
	NASB	
	NJS	
	NSC	
	♦PPC	
	SES	
	SPE	
	SST	
	UPI	
2N4924	ΔMOTA	237 - 7
	CSR	
	♦GDC	
	GTC	
	IDI	
	MEHK	
	NASB	
	NSC	
	NTR	
	SCA	
	SSI	
	STC	
	STI	
	TEC	
	UPI	
2N4925	ΔMOTA	237 - 8
	CSR	
	♦GDC	
	GTC	
	IDI	
	NASB	
	SES	
	SPE	
	SSI	
	STC	
	STI	
	TEC	
	UPI	
2N4926	Δ♦MOTA	237 - 9
	CSR	
	ETC	
	♦FSC	
	♦GDC	
	GTC	
	♦HVS	
	IDI	
	KER	
	MEHK	
	NASB	
	NJS	
	NSC	
	SCA	
	SES	
	SSI	
	♦STC	
	STI	
	TIIF	
2N4927	Δ♦MOTA	237 - 10
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	ETC	
	♦FSC	
	♦GDC	
	GTC	
	♦HVS	
	IDI	
	KER	
	MEHK	
	NASB	
	NJS	
	NSC	
	SCA	
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	SPE	
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	♦GDC	
	GTC	
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	NASB	
	SCA	
	SES	
	SLD	
	SST	
	STI	
	TEC	
	TIIF	
2N4929	ΔMOTA	215-106
	AMR	
	CSR	
	♦GDC	
	GTC	
	IDI	
	NASB	
	SCA	
	SES	
	SLD	
	SPE	
	SSI	
	SST	
	STI	
	TEC	
2N4930	ΔMOTA	215-107
	AMR	
	CSR	
	♦GDC	
	GTC	
	♦HVS	
	IDI	
	SCA	
	SES	
	SLD	
	SSI	
	SST	
	♦STC	
	STI	
	TEC	
JAN2N4930	MOTA	215-108
	TEC	
2N4931	CSR	215-109
	♦GDC	
	GTC	
	♦HVS	
	IDI	
	SCA	
	SEI	
	SES	
	SLD	
	SPE	
	SSI	
	SST	
	♦STC	
	STI	
	TEC	
JAN2N4931	MOTA	215-110
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2N4931S	MOTA	216 - 1
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	TIC	
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	♦SES	
	SSI	
	TIC	
2N4934	MEHK	152 - 24
	NSC	
	NTR	
	SCA	
	SPE	
2N4935	MEHK	152 - 25
	NSC	
	NTR	
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	NTR	
	SCA	
2N4937	Δ♦MOTA	137 - 88
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TYPE No.	MFRS	Pg&Line
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	RTN	
	SPE	137 - 89
	STI	
	TADI	
2N4939	Δ♦MOTA	347 - 49
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2N4940	Δ♦MOTA	340-101
	RTN	
	TADI	125 - 81
2N4941	Δ♦MOTA	125 - 82
	RTN	
	TADI	340-102
2N4942	Δ♦MOTA	347 - 50
	RTN	
	TADI	
2N4943	CEN	185 - 19
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	GTC	
	IDI	
	MEHK	
	NASB	
	NSC	
	NTR	
	SSI	
	TADI	
	TEC	
2N4944	CEN	152 - 85
	CSR	
	♦DEF	
	ETC	
	IDI	
	MEHK	
	NJS	
	NSC	
	SLD	
	SST	
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2N4945	CEN	152 - 86
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	♦DEF	
	IDI	
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	NSC	
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2N4946	CEN	152 - 87
	CSR	
	♦DEF	
	ETC	
	IDI	
	MEHK	
	NJS	
	NSC	
	SLD	
	SPE	
	SST	
	STI	
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2N4947	Δ♦TII	345 - 38
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	MEHK	
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	SST	
	TIIB	
	TIID	
JAN2N4947	none	345 - 39
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	♦MOTA	
	SES	
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	SPE	
	SST	
	TIIB	
	TIID	
JAN2N4948	MOTA	345 - 41
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2N4949	Δ♦TII	345 - 42
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	♦MOTA	
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	SLD	
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	SPC	
	SSI	
	SST	
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	CSR	
	IDC	
	IDI	
	MEHK	
	MISI	
	NASB	
	NPC	
	NSC	
	NTR	
	SES	
	SPE	
	THCF	
2N4952	Δ♦SPR	167 - 7
	CEN	297 - 84
	CSR	
	IDC	
	IDI	
	MEHK	
	MISI	
	NASB	
	NPC	
	NSC	
	NTR	
	SES	
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2N4953	Δ♦SPR	297 - 85
	CEN	167 - 8
	CSR	
	IDC	
	IDI	
	MEHK	
	MISI	
	NASB	
	NPC	
	NSC	
	NTR	
	SES	
	SPE	
	THCF	
2N4954	Δ♦SPR	167 - 9
	CEN	297 - 86
	CSR	
	IDC	
	IDI	
	MEHK	
	MISI	
	NASB	
	NPC	
	NSC	
	NTR	
	SES	
	THCF	
2N4955	CSR	165 - 20
	INL	347 - 51
	SPE	340 -103
2N4955/78	SCA	157 - 16
		163 -105
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	MEHK	340 -105
	SPE	157 - 17
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	SCA	
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JAN2N4957	none	123 - 97
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	IDI	
	SCA	
	SSS	
	STI	
2N4959	Δ♦MOTA	123 - 95
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	SCA	
	SSI	
	SSS	
	STI	
2N4960	CEN	185 - 79
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TYPE No.	MFRS	Pg&Line
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	SSI	
	STI	
2N4961	CEN	306-107
	CSR	NASB 174 - 29
	SCA	SSI
		STI
2N4962	CEN	185 - 80
	CSR	GTC 306-108
	IDI	SCA
	SPE	SSI
		STI
2N4963	CEN	306-109
	CSR	SCA 174 - 30
	SPE	SSI
		STI
2N4964	CEN	123 - 19
	CSR	DEF
	IDI	NASB
	NSC	SLD
		SST
2N4965	CEN	123 - 20
	CSR	DEF
	IDI	MEHK
	NASB	NSC
	SLD	SST
2N4966	CEN	148 - 73
	CSR	♦DEF
	IDI	MEHK
	NASB	NSC
	SDE	♦SES
	SLD	SST
		STI
2N4967	CEN	148 - 74
	CSR	♦DEF
	IDI	NASB
	NSC	SDE
	♦SES	SLD
		STI
2N4968	CEN	148 - 75
	CSR	♦DEF
	♦GDC	IDI
	MEHK	NASB
	NSC	SDE
	♦SES	SLD
	SST	STI
2N4969	CEN	149 - 37
	CSR	IDI 295 - 45
	MEHK	NASB
	NSC	SDE
	♦SES	SLD
	SPE	SST
		STI
2N4970	CEN	297 - 19
	CSR	IDI 149 - 75
	MEHK	NASB
	NSC	SDE
	♦SES	SLD
	SPE	SST
		STI
2N4971	CEN	123 - 54
	CSR	IDI 300-103
	MEHK	NASB
	NPC	NSC
	SDE	♦SES
	SLD	SST
		STI
2N4972	CEN	301 - 78
	CSR	IDI 123 - 55
	MEHK	NASB
	NPC	NSC
	SDE	♦SES
	SLD	SPE
	SST	STI
		UPI
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2N4975	AMR	330 - 69
2N4976	Δ♦TRW	237 - 11
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	NASB	NPC
	SODI	SPE
	THCF	TIID
2N4978	Δ♦TSC	201 - 58
	AMX	MISI 289 - 27
	NASB	NPC
	SODI	THCF
		TIID
2N4979	Δ♦TSC	293 - 95
	AMX	CEC 201 - 59
	INL	MISI
	NASB	NPC
	SODI	THCF
		TIID
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2N4981	TCY	346 - 43
		TSI 134 - 56
2N4982	CSR	134 - 43
	TCY	TSI 346 - 44
2N4994	CSR	166 - 92
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	SLD	SPE
	SST	STI
		TIIC
2N4995	CSR	166 - 93
	♦GESY	♦SES
	SLD	SST
	STI	TIIC
2N4996	Δ♦TII	154 - 98
	CSR	MEHK
	SCA	SLD
	SST	STI
	TIIB	TIIC

TYPE No.	MFRS	Pg&Line
2N4997	Δ♦TII	154 - 99
	CSR	SLD
	SST	STI
	TIIB	TIIC
2N4998	AMC	253 - 1
	CSR	♦GSE
	GTC	IDI
	♦KER	♦PPC
	SCA	SLD
	SOD	SSI
	SST	♦STC
	STI	♦TII
	TIIB	TRW
2N4999	AMC	220 - 87
	♦KER	♦PPC
	SCA	SLD
	SOD	SSI
	SST	STC
	♦TII	TIIB
2N5000	AMC	253 - 2
	CSR	♦GSE
	GTC	IDI
	♦KER	♦PPC
	SCA	SLD
	SOD	SPE
	SSI	SST
	♦STC	TEC
	♦TII	TIIB
		TRW
2N5001	AMC	220 - 88
	♦KER	NJS
	♦PPC	SCA
	SEI	SLD
	SOD	SPE
	SSI	SST
	STC	TEC
	♦TII	TIIB
2N5002	AMC	259 - 67
	CSR	GSE
	GTC	IDC
	IDI	♦KER
	♦PPC	SCA
	SLD	SOD
	SSI	SST
	♦STC	STI
	TEC	♦TII
	TIIB	TRW
2N5003	AMC	222 - 91
	♦KER	♦PPC
	SCA	SLD
	SOD	SSI
	SST	STC
	TEC	♦TII
		TIIB
2N5004	AMC	259 - 68
	CSR	GSE
	GTC	IDI
	♦KER	♦PPC
	SCA	SLD
	SOD	SSI
	SST	♦STC
	STI	TEC
	♦TII	TIIB
		TRW
2N5005	AMC	222 - 92
	♦KER	♦PPC
	SCA	SOD
	SSI	STC
	TEC	♦TII
		TIIB
2N5006	AMC	268 - 19
	GSE	GTC
	♦IDI	♦KER
	♦PPC	SCA
	SDE	SLD
	SOD	SSI
	SST	♦STC
	TEC	TRW
2N5007	AMC	225-101
	♦KER	♦PPC
	SCA	SOD
	SPE	SSI
	STC	TEC
2N5008	AMC	268 - 20
	GSE	GTC
	IDI	♦KER
	♦PPC	SCA
	SDE	SLD
	SOD	SSI
	SST	♦STC
		TRW
2N5009	AMC	225-102
	♦KER	♦PPC
	SCA	SOD
	SSI	STC
		TEC
2N5010	Δ♦STC	234 - 28
	CSR	♦GDC
	♦HVS	IDI
	SCA	SPE
	♦SSI	STI
2N5011	Δ♦STC	234 - 29
	CSR	♦GDC
	♦HVS	SCA
	♦SSI	STI
2N5012	Δ♦STC	234 - 30
	CSR	♦GDC
	♦HVS	SCA
	SPE	♦SSI
		STI
2N5013	Δ♦STC	234 - 31
	CSR	♦GDC
	♦HVS	SCA
	♦SSI	STI

TYPE No.	MFRS	Pg&Line
2N5014	ΔSTC	234 - 32
	CSR	♦GDC
	♦HVS	SCA
		♦SSI
2N5015	ΔSTC	234 - 33
	CSR	♦GDC
	♦HVS	SCA
		♦SSI
2N5016	Δ♦RCA	253 - 3
	♦MOTA	♦SES
	SSI	♦SSS
	STI	TADI
2N5018	Δ♦TSC	291 - 90
	AMX	CEN 190 - 66
	INL	NASB
	NSC	SIX
	SODI	SPE
		TIID
2N5019	Δ♦TSC	190 - 67
	AMX	CEN 302 - 54
	INL	NASB
	NSC	SIX
	SODI	SPE
		TIID
2N5020	AMX	189 - 12
	CEN	INL
	NASB	NSC
	SODI	TSC
2N5021	AMX	189 - 13
	CEN	INL
	NASB	NSC
	SODI	SPE
		TSC
2N5022	Δ♦FSC	294 - 75
	CSR	GTC 215 - 87
	IDI	MEHK
	NASB	NSC
	NTR	RTN
	SSI	STI
	TADI	TSI
2N5023	Δ♦FSC	294 - 83
	GTC	IDI 214 - 2
	NASB	NSC
	NTR	RTN
	SSI	STI
	TADI	TSI
2N5024	SCA	152 - 10
2N5025	KER	256 - 87
	SPE	TIC
		UPI
2N5026	KER	256 - 88
	SPE	TIC
2N5027	CSR	292 - 42
	IDC	163 - 41
2N5028	CSR	163 - 42
	IDC	294 - 91
2N5029	GTC	289-106
	IDI	MEHK 163 - 49
		SST
2N5030	IDI	163 - 48
	MEHK	NSC 290 - 44
		SST
2N5031	Δ♦MOTA	151 - 69
	CSI	FSC
	GTC	♦MIC
	SCA	SPE
	SSI	SSS
2N5032	Δ♦MOTA	151 - 70
	CSI	GTC
	♦MIC	SCA
	SEI	SSI
		SSS
2N5033	CEN	188 - 42
	CSR	INL
	NASB	NSC
	SODI	SPE
		TSC
2N5034	Δ♦RCA	268 - 21
		SPE
2N5035	Δ♦RCA	268 - 22
2N5036	Δ♦RCA	268 - 23
		SPE
2N5037	Δ♦RCA	268 - 24
		SPE
2N5038	Δ♦RCA	271 - 75
	AMC	CSI 318 - 43
	CSR	ESE
	ETC	♦GSE
	GTC	IDI
	INR	KER
	MISI	NPC
	♦PPC	RCAB
	SCA	SDE
	♦SES	SGAI
	SLD	SPE
	SSI	SST
	♦STC	TEC
	THCF	♦TII
	TIIB	TRW
		UNI
JAN2N5038	RCA	318 - 66
	STC	271 - 76
2N5039	Δ♦RCA	271 - 77
	AMC	CSI 318 - 44
	CSR	ESE
	♦GSE	GTC
	IDI	INR
	KER	MISI
	NPC	♦PPC
	RCAB	SCA
	SDE	SGAI
	SLD	SPE
	SSI	SST
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TYPE No.	MFRS	Pg&Line
2N5147		
(cont.)	IDI	
	♦KER	PPC
	SCA	SES
	SOD	SSI
	STC	TEC
	♦TII	TIIB
2N5148	AMC	239 - 61
	CSI	CSR
	GTC	IDI
	♦KER	MEHK
	NSC	NTR
	PPC	SCA
	SDE	SES
	SOD	SSI
	♦STC	STI
	TEC	♦TII
	TIIB	TRW
		UPI
2N5149	AMC	216 - 59
	CSR	GTC
	♦KER	PPC
	SCA	SES
	SOD	SSI
	STC	TEC
	♦TII	TIIB
		UPI
2N5150	AMC	239 - 62
	CSI	CSR
	GTC	IDI
	♦KER	MEHK
	NSC	NTR
	PPC	SCA
	SDE	SES
	SOD	SSI
	♦STC	TEC
	♦TII	TIIB
	TRW	UNI
		UPI
2N5151	AMC	217-110
	CSR	GTC
	♦KER	PPC
	SCA	♦SES
	SOD	SSI
	STC	TEC
	♦TII	TIIB
	UNI	UPI
2N5152	AMC	243 - 65
	CEC	CSI
	CSR	GSE
	GTC	IDI
	♦KER	PPC
	SCA	SDE
	SES	SOD
	SPE	SSI
	♦STC	STI
	TEC	♦TII
	TIIB	TRW
	UNI	UPI
2N5153	AMC	218 - 1
	CSR	GTC
	♦KER	PPC
	SCA	SES
	SOD	SSI
	STC	TEC
	♦TII	TIIB
		UPI
2N5154	AMC	243 - 66
	CEC	CSI
	CSR	GSE
	GTC	IDI
	♦KER	PPC
	SCA	SDE
	SES	SSI
	♦STC	STI
	TEC	♦TII
	TIIB	TRW
		UPI
2N5155	CEN	210 - 47
	CSR	GPD	328 - 61
	GTC	LTE
	SEI	SES
	SPE	SSI
		STC
2N5156	CEN	329 - 31
	CSR	♦GPD	209 - 33
	LTE	MOTA
	SES	SLD
	SPE	SST
		STC
2N5157	Δ♦DEL	320 - 65
	AMC	CSR	279 - 11
	GTC	♦INR
	♦MOTA	SCA
	SES	SOD
	♦SPC	SPE
	♦STC	♦TII
		TIIB
JAN2N5157	DEL	279 - 12
	SOD	SPC	320 - 62
2N5158	ΔTCY	200 - 34
		SPE	291 - 93
2N5159	ΔTCY	291 - 94
			200 - 35
2N5160	Δ♦MOTA	214 - 14
	CEC	CSR
	RTN	SPE
2N5161	Δ♦MOTA	219 - 30
		NASB
2N5162	Δ♦MOTA	222 - 36
	KER	RTN
2N5163	AMR	192 - 3
	CEN	♦INL

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TYPE No.	MFRS	Pg&Line
2N5163		
(cont.)	MEHK	
	NASB	NSC
	SIX	SODI
	SPE	SST
	♦TSC	UPI
2N5172	Δ♦GESY	148 - 9
	CEN	CRI
	CSR	MEHK
	NASB	NPC
	NSC	NTR
	SEI	SES
	SLD	SPE
	♦SPR	SST
	STI	UPI
2N5174	Δ♦GESY	148 - 10
	CSR	NASB
		♦SPR
2N5175	Δ♦GESY	148 - 11
	CSR	NASB
	SPE	♦SPR
2N5176	Δ♦GESY	148 - 12
	NASB	SES
	SPE	♦SPR
2N5177	Δ♦TRW	254-104
		KER
2N5178	Δ♦TRW	262 - 74
		KER
2N5179	Δ♦RCA	151 - 51
	FSC	GTC
	IDI	♦MEHK
	♦MIC	♦MOTA
	NSC	SCA
	SES	SGAI
	SPE	SSS
	SST	TADI
	TIIB	UPI
2N5180	CEC	147 - 39
	GTC	IDI
	♦MEHK	NSC
	NTR	SCA
	SES	SPE
	TIIB	UPI
2N5181	MEHK	147 - 34
	NSC	NTR
	SCA	SEI
	SES	SPE
		UPI
2N5182	MEHK	147 - 35
	NSC	NTR
	SCA	SES
2N5183	SCA	172 - 81
	SES	SPE
2N5184	SCA	175 - 58
	SES	SPE
2N5185	SES	231 - 85
	STC	
2N5186	SCA	293 - 67
	SES	160-104
2N5187	CSI	160-105
	SCA	SES	289 - 62
		SPE
2N5188	IDI	292 - 91
	SCA	SEI	186 - 9
	SES	SPE
	TADI	TEC
2N5189	CSR	182 - 36
	MEHK	NSC	231 - 53
	SCA	SEI	296 - 58
	SES	SPE
		TIIF
2N5190	Δ♦MOTA	258 - 32
	GTC	IDI
	NJS	NSC
	SGAI	SPE
		UPI
2N5191	Δ♦MOTA	258 - 33
	GTC	IDI
	NJS	NSC
	SGAI	SPE
		UPI
2N5192	Δ♦MOTA	258 - 34
	CRI	GTC
	IDI	NJS
	NSC	SGAI
	SPE	SST
		UPI
2N5193	Δ♦MOTA	222-108
	GTC	IDI
	NJS	NSC
	SGAI	SPE
		UPI
2N5194	Δ♦MOTA	222-109
	GTC	IDI
	NJS	NSC
	SGAI	SPE
		UPI
2N5195	Δ♦MOTA	222-110
	GTC	IDI
	NJS	NSC
	SGAI	SPE
		UPI
2N5196	Δ♦SIX	193 - 4
	♦INL	NSC	341 - 8
	SODI	SST
	TIID	TSC
		UPI
2N5197	Δ♦SIX	341 - 9
	♦INL	NSC	193 - 5
	SODI	SPE
	SST	TIID
		TSC
2N5198	Δ♦SIX	193 - 6

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TYPE No.	MFRS	Pg&Line
2N5198		
(cont.)	♦INL	341 - 10
	MISI	NPC
	NSC	SODI
	SPE	SST
	THCF	TIID
		TSC
2N5199	Δ♦SIX	341 - 11
	AMR	CEN	193 - 7
	♦INL	MISI
	NPC	NSC
	SODI	SPE
	SST	TADI
	THCF	TIID
		TSC
2N5200	STI	161 - 52
			349 - 3
2N5201	CRI	349 - 4
	CSR	STI	161 - 58
2N5202	AMC	253 - 7
	CRI	CSR	314 - 82
	GSE	GTC
	IDI	KER
	PPC	♦RCA
	RCAB	SCA
	SDE	SES
	SSI	♦STC
	TEC	TRW
2N5208	♦MOTA	131 - 72
	NPC	SPE
		SST
2N5209	Δ♦MOTA	163 - 90
	CEN	CSR
	♦DEF	♦FERB
	FSC	IDI
	ITT	MEHK
	NASB	NPC
	NSC	NTR
	SES	SPE
	♦SPR	SST
		TII
2N5210	Δ♦MOTA	163 - 91
	CEN	CRI
	CSR	♦DEF
	♦FERB	FSC
	GTC	IDI
	ITT	MEHK
	NASB	NPC
	NSC	NTR
	SEI	SES
	SPE	♦SPR
	SST	TII
2N5212	KER	240 - 98
2N5213	KER	240 - 99
2N5214	CSR	260 - 59
2N5215	TIC	249 - 35
2N5216	CSR	250 - 28
2N5218	ΔSOD	263-107
	AMC	GSE	319 - 63
	♦KER	SCA
	♦SES	SLD
	SSI	SST
	♦STC	TRW
		UPI
2N5219	Δ♦MOTA	164 - 34
	CEN	CSR
	♦DEF	GDC
	IDI	ITT
	NASB	NPC
	NSC	NTR
	RHM	SES
	♦SPR	STI
	TII	UPI
2N5220	Δ♦MOTA	164 - 3
	CEN	CSR
	♦DEF	IDI
	ITT	MEHK
	NASB	NSC
	NTR	RHM
	SES	SPE
	♦SPR	STI
	STI	TII
		UPI
2N5221	Δ♦MOTA	130 - 97
	CEN	CRI
	CSR	♦DEF
	IDI	ITT
	MEHK	NASB
	NPC	NSC
	NTR	RHM
	SES	♦SPR
	STI	TII
		UPI
2N5222	Δ♦MOTA	165 - 58
	CRI	♦DEF
	GDC	IDI
	NASB	NPC
	NSC	NTR
	SES	SPE
	♦SPR	STI
	TII	UPI
2N5223	Δ♦MOTA	164 - 35
	CEN	CRI
	CSR	♦DEF
	FSC	GDC
	IDI	MEHK
	NASB	NPC
	NSC	NTR
	RHM	SES
	SPE	♦SPR
	STI	TII
		UPI
2N5224	Δ♦MOTA	164 - 85
	CEN	CRI	292 - 43

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TYPE No.	MFRS	Pg&Line
2N5224		
(cont.)	CSR	
	♦DEF	FSC
	IDI	ITT
	MEHK	NASB
	NPC	NSC
	NTR	SES
	SPE	♦SPR
	SST	STI
		UPI
2N5225	Δ♦MOTA	163-102
	CEN	CRI
	CSR	♦DEF
	FSC	GDC
	IDI	ITT
	MEHK	NASB
	NSC	NTR
	RHM	SES
	SPE	♦SPR
	SST	STI
	TII	UPI
2N5226	Δ♦MOTA	130 - 91
	CEN	CSR
	♦DEF	FSC
	GDC	IDI
	ITT	MEHK
	NASB	NPC
	NSC	NTR
	RHM	SES
	♦SPR	SST
	STI	TII
		UPI
2N5227	Δ♦MOTA	130 - 98
	CEN	CSR
	♦DEF	FSC
	GDC	IDI
	ITT	MEHK
	NASB	NPC
	NSC	NTR
	RHM	SES
	SPE	♦SPR
	SST	STI
	TII	UPI
2N5228	Δ♦MOTA	131 - 73
	CEN	CSR	300 - 47
	♦DEF	FSC
	ITT	NASB
	NTR	SES
	♦SPR	STI
		UPI
2N5229	Δ♦MOTA	215 - 37
	AMR	CSR	346 - 46
	SPE	SSI
2N5230	Δ♦MOTA	346 - 47
	CRI	CSR	215 - 38
	SSI	STI
2N5231	Δ♦MOTA	215 - 39
	CRI	CSR	346 - 48
	SSI	UPI
2N5232	Δ♦GESY	163 - 51
	CEN	CRI
	CSR	GTC
	IDC	IDI
	MEHK	NASB
	NSC	NTR
	SES	SPE
	♦SPR	UPI
2N5232A	Δ♦GESY	163 - 52
	CEN	CSR
	GTC	IDC
	IDI	NASB
	NSC	NTR
	SEI	SES
		♦SPR
2N5233	CSR	163 - 53
2N5234	CSR	163 - 54
2N5235	CSR	163 - 55
2N5236	SSI	178 - 60
			349 - 5
2N5237	ΔSOD	318 - 4
	AMC	CSR	241 - 33
	GSE	GTC
	IDI	♦KER
	SCA	SDE
	SSI	♦STC
	TEC	TRW
JAN2N5237	AMC	241 - 34
	SOD	TEC	318 - 49
2N5238	ΔSOD	318 - 5
	AMC	GSE	241 - 35
	GTC	IDI
	♦KER	SCA
	SDE	SSI
	♦STC	STI
		TRW
JAN2N5238	SOD	241 - 36
			318 - 50
2N5239	Δ♦RCA	265-110
	AMC	GTC
	IDI	INR
	KER	RCAB
	SCA	SES
	SOD	♦SPC
	SPE	SSI
	♦STC	STI
		TEC
2N5240	Δ♦RCA	266 - 1
	AMC	GTC
	IDI	INR
	KER	RCAB
	SCA	SES
	SOD	♦SPC
	SPE	SSI

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TYPE No.	MFRS	Pg&Line
2N5240		
(cont.)	♦STC	
	STI	TEC
2N5241	Δ♦DEL	280 - 93
	AMC	GTC	320 - 63
	♦INR	KER
	♦MOTA	SCA
	SES	SOD
	♦SPC	SPE
	SSI	♦STC
	STI	TEC
	♦TII	TIIB
JAN2N5241	DEL	320 - 79
		SPC	274 - 40
2N5243	CEN	294 - 76
	CSR	SEI	137 - 47
2N5245	Δ♦TII	198 - 71
	CEN	INL
	MEHK	NASB
	NSC	SLD
	SODI	SPE
	TIIB	TIIC
	TIID	TSC
2N5246	Δ♦TII	198 - 72
	CEN	INL
	MEHK	NASB
	NSC	SLD
	SODI	SPE
	TIIB	TIIC
	TIID	TSC
2N5247	Δ♦TII	198 - 73
	CEN	INL
	MEHK	NASB
	NSC	SLD
	SODI	SPE
	TIIB	TIIC
	TIID	TSC
2N5248	Δ♦TII	198 - 74
	CEN	MEHK
	NSC	SLD
	SPE	TIIB
		TIID
2N5249	Δ♦GESY	163 - 56
	CSR	NPC
	♦SES	SPE
	SPR	TIIC
2N5249A	Δ♦GESY	163 - 57
	CSR	IDI
	♦SES	SPR
2N5250	Δ♦SOD	324 - 26
	AMC	♦KER	283 - 71
	PTI	♦SES
	SPE	SSI
	♦STC	TEC
JAN2N5250	SOD	283 - 72
		TEC	324 - 32
2N5251	Δ♦SOD	324 - 27
	AMC	♦KER	283 - 73
	PTI	SSI
		♦STC
JAN2N5251	SOD	283 - 74
			324 - 33
2N5252	KER	239 - 63
	SSI	STI
2N5253	KER	239 - 64
	SSI	STI
2N5254	CSR	130 - 86
	INL	MEHK	347 - 52
2N5254/78	SCA	347 - 53
			136 - 58
2N5255	CSR	130 - 87
	INL	341 - 12
2N5255/78	SCA	341 - 13
			136 - 59
2N5256	CSR	130 - 88
	INL	STI	341 - 14
2N5256/78	SCA	341 - 15
			136 - 60
2N5262	CSI	182 - 37
	CSR	GTC	231 - 54
	IDC	IDI	293 - 97
	RTN	SCA
	SES	SST
		STI
2N5264	CSR	263-108
	GTC	IDI	322 - 2
	KER	SCA
	SLD	SSI
	SST	STC
2N5265	Δ♦MOTA	188 - 43
	AMR	AMX
		INL
2N5266	Δ♦MOTA	188 - 44
	AMX	INL
2N5267	Δ♦MOTA	188 - 45
	AMX	INL
2N5268	Δ♦MOTA	188 - 46
	AMX	INL
2N5269	Δ♦MOTA	188 - 47
	AMX	INL
2N5270	Δ♦MOTA	188 - 48
	AMR	AMX
	INL	SPC
2N5271	Δ♦MOTA	288 - 15
			338 - 4
2N5272	STI	291 - 78
			168 - 24
2N5277	Δ♦TSC	201 - 29
	AMX	NASB
		TIID
2N5278	Δ♦TSC	201 - 30
	AMX	NASB
		TIID

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TYPE No.	MFRS	Pg&Line
2N5366		
(cont.)	IDI	
	MEHK	MISI
	NPC	NSC
	NTR	SES
	SPE	SPR
	SST	THCF
2N5367	CEN	131-108
	CSR	MISI
	NPC	NTR
	SES	SPE
	SPR	THCF
2N5368	Δ♦SPR	167- 10
	CEN	CSR 297- 87
	♦GESY	IDC
	ITT	NASB
	NTR	SES
	SPE	SST
		STI
2N5369	Δ♦SPR	297- 88
	CEN	CSR 167- 11
	♦GESY	IDC
	ITT	NASB
	NTR	SES
	SPE	SST
		STI
2N5370	CEN	167- 12
	CSR	♦GESY 297- 89
	IDC	ITT
	NASB	NTR
	SES	♦SPR
		STI
2N5371	Δ♦SPR	297- 90
	CEN	CSR 167- 13
	♦GESY	IDC
	ITT	NASB
	NTR	SES
		STI
2N5372	Δ♦SPR	132- 70
	CEN	CSR 299- 31
	IDC	ITT
	MEHK	NASB
	NTR	SES
		STI
2N5373	Δ♦SPR	299- 32
	CEN	CSR 132- 71
	♦GESY	IDC
	ITT	NASB
	NTR	SES
		STI
2N5374	Δ♦SPR	132- 72
	CEN	CSR 299- 33
	IDC	ITT
	NASB	NTR
	SES	STI
2N5375	Δ♦SPR	299- 34
	CEN	CSR 132- 73
	♦GESY	IDC
	ITT	NASB
	NTR	SES
	SST	STI
2N5376	Δ♦SPR	167- 57
	CEN	CSR
	IDC	ITT
	NASB	SES
	SST	STI
2N5377	Δ♦SPR	167- 58
	CEN	CSR
	IDC	ITT
	NASB	SES
		STI
2N5378	Δ♦SPR	132- 90
	CEN	CSR
	IDC	ITT
	NASB	SES
		STI
2N5379	Δ♦SPR	132- 91
	CEN	CSR
	IDC	ITT
	NASB	SES
		STI
2N5380	Δ♦SPR	167- 14
	CEN	CSR 295-100
	IDC	NTR
	SES	STI
2N5381	Δ♦SPR	296- 17
	CEN	CSR 167- 59
	IDC	NTR
	SES	STI
2N5382	Δ♦SPR	132- 92
	CEN	CSR 295- 63
	IDC	NASB
	NTR	SES
		STI
2N5383	Δ♦SPR	295-101
	CEN	CSR 133- 15
	IDC	NASB
	NTR	SES
		STI
2N5384	Δ♦TII	222- 93
	AMC	♦KER
	PPC	SCA
	SLD	SOD
	SSI	SST
	STC	TEC
	TIIB	TIID
2N5385	Δ♦TII	222- 94
	AMC	♦KER
	PPC	SCA
	SLD	SSI
	SST	STC
	TIIB	TIID
2N5386	Δ♦TII	224- 94
cont.next col.		

TYPE No.	MFRS	Pg&Line
2N5386		
(cont.)	AMC	
	♦KER	PPC
	SCA	SLD
	SOD	SSI
	SST	STC
	TEC	TIIB
		TIID
2N5387	Δ♦TII	275- 2
	AMC	GSE
	IDI	♦KER
	SCA	SLD
	SOD	SSI
	SST	♦STC
	TIIB	TIID
2N5388	Δ♦TII	275- 3
	AMC	GSE
	IDI	♦KER
	PPC	SCA
	SLD	SOD
	SSI	SST
	♦STC	TIIB
		TIID
2N5389	Δ♦TII	275- 4
	AMC	GSE
	♦KER	SCA
	SLD	SOD
	SSI	SST
	♦STC	TIIB
		TIID
2N5390	Δ♦TII	347- 54
	AMC	SCA
	SSI	TIIB
		UNI
2N5391	Δ♦TSC	194- 52
	AMX	NASB
		SODI
2N5392	Δ♦TSC	194- 53
	AMR	AMX
	NASB	SODI
2N5393	Δ♦TSC	194- 54
	AMX	NASB
		SODI
2N5394	Δ♦TSC	194- 55
	AMX	NASB
		SODI
2N5395	Δ♦TSC	194- 56
	AMX	NASB
		SODI
2N5396	Δ♦TSC	194- 57
	AMX	NASB
		SODI
2N5397	Δ♦SIX	194- 58
	AMX	CEN
	INL	NASB
	NSC	SODI
	SPE	SST
	♦TII	TIID
		TSC
2N5398	Δ♦SIX	194- 59
	AMX	CEN
	INL	NASB
	NSC	SODI
	♦TII	TIID
		TSC
2N5399	Δ♦TII	168- 37
		349- 10
2N5400	Δ♦MOTA	130- 99
	FSC	GTC
	IDI	MEHK
	NPC	NSC
	SEI	SPE
	SST	♦TII
2N5401	Δ♦MOTA	130-100
	FSC	GTC
	IDI	MEHK
	NPC	NSC
	SPE	SST
		♦TII
2N5404	ΔSOD	217- 9
	AMC	AMR 317- 83
	CSR	♦KER
	PPC	SCA
	♦SES	SSI
	STC	TEC
2N5405	ΔSOD	317- 84
	AMC	CSR 217- 10
	♦KER	PPC
	SCA	♦SES
	SSI	STC
		TEC
2N5406	ΔSOD	217- 11
	AMC	CSR 317- 85
	♦KER	PPC
	SCA	♦SES
	SSI	STC
		TEC
2N5407	ΔSOD	317- 86
	AMC	CSR 217- 12
	♦KER	PPC
	SCA	♦SES
	SSI	STC
		TEC
2N5408	ΔSOD	222- 61
	AMC	CRI 317- 87
	♦KER	PPC
	SCA	♦SES
	SSI	STC
		TEC
2N5409	ΔSOD	317- 88
	AMC	♦KER 222- 62
	PPC	SCA
	♦SES	SSI
	STC	TEC

TYPE No.	MFRS	Pg&Line
2N5410	ΔSOD	222- 63
	AMC	♦KER 317- 89
	PPC	SCA
	♦SES	SPE
	SSI	STC
		TEC
2N5411	ΔSOD	317- 90
	AMC	♦KER 222- 64
	PPC	SCA
	♦SES	SSI
	STC	STI
		TEC
2N5412	ΔSOD	309- 21
	AMC	CSR 270- 49
	GTC	IDI
	♦KER	SCA
	SDE	SSI
	STC	TRW
2N5413	CEC	296- 52
	CSR	IDI 231- 86
	KER	SCA
		SSI
2N5414	CEC	231- 87
	CSR	IDI 296- 53
	KER	RCAB
	SCA	SSI
2N5415	Δ♦RCA	217- 37
	CEC	CSR
	♦GDC	GTC
	♦HVS	IDI
	NASB	RCAB
	SCA	SES
	♦SOD	SPE
	SSI	SST
	♦STC	STI
	TEC	♦VALG
JAN2N5415	RCA	141- 9
	SOD	322- 9
2N5416	Δ♦RCA	217- 38
	CSR	♦GDC
	GTC	♦HVS
	IDI	RCAB
	SCA	SES
	♦SOD	SPE
	SSI	♦STC
	STI	TEC
		♦VALG
JAN2N5416	RCA	322- 10
	SOD	141- 10
2N5417	STI	174- 31
		349- 11
2N5418	Δ♦GESY	168- 68
	NASB	NTR
	♦SES	SPE
	♦SPR	STR
2N5419	Δ♦GESY	168- 69
	NASB	NTR
	♦SES	♦SPR
		STR
2N5420	NASB	168- 70
	NTR	♦SES
	♦SPR	STR
2N5421	CSR	233-103
	♦SES	SSI
	STR	TIC
2N5422	CSI	237- 14
	CSR	IDI
	SCA	SSI
		TIC
2N5423	♦SES	245- 56
	STR	TIC
2N5424	♦SES	248- 49
	STR	TIC
2N5425	KER	312- 29
	SCA	STI 255- 89
2N5426	KER	255- 90
	SCA	STI 312- 30
2N5427	Δ♦MOTA	304- 4
	AMC	CSR 254-105
	GSE	GTC
	IDI	♦KER
	♦PPC	SCA
	SDE	SOD
	SSI	♦STC
	TEC	TRW
		UNI
2N5428	Δ♦MOTA	254-106
	AMC	CSR 304- 5
	GSE	GTC
	IDI	♦KER
	♦PPC	SCA
	SDE	SPE
	SSI	♦STC
	TEC	TRW
		UNI
2N5429	Δ♦MOTA	304- 6
	AMC	CSR 254-107
	GSE	GTC
	IDI	♦KER
	♦PPC	SCA
	SDE	SSI
	♦STC	TEC
	TRW	UNI
2N5430	Δ♦MOTA	254-108
	AMC	CSR 304- 7
	GSE	GTC
	IDI	♦KER
	♦PPC	SCA
	SDE	SOD
	SPE	SSI
	♦STC	TEC
	TRW	UNI
2N5431	Δ♦MOTA	345- 44
	CEN	SES

TYPE No.	MFRS	Pg&Line
JAN2N5431	MOTA	345- 45
2N5432	Δ♦SIX	288- 16
	AMR	CEN 194- 60
	♦INL	MISI
	NPC	NSC
	TADI	♦TCY
	THCF	TIID
		TSC
2N5433	Δ♦SIX	194- 61
	CEN	♦INL 288- 17
	MISI	NPC
	NSC	SPE
	♦TCY	THCF
	TIID	TSC
2N5434	Δ♦SIX	288- 18
	CEN	♦INL 194- 62
	MISI	NPC
	NSC	TADI
	♦TCY	THCF
	TIID	TSC
2N5435	CEN	327-104
	CSR	DIT 210- 28
	GPD	LTE
2N5436	CEN	210- 29
	CSR	DIT 327-105
	GPD	LTE
		SST
2N5437	AMR	327-106
	CEN	CSR 210- 30
	DIT	GPD
	LTE	SST
2N5438	AMR	210- 31
	CEN	CSR 327-107
	DIT	GPD
	LTE	SST
2N5439	CEN	327-108
	CSR	DIT 210- 32
	GPD	LTE
2N5440	AMR	210- 33
	CEN	CSR 327-109
	DIT	GPD
	LTE	SST
2N5447	Δ♦TII	132- 53
	♦ALGG	CEN
	CSR	♦GESY
	ITT	MEHK
	MISI	NASB
	NPC	NTR
	SES	SLD
	SPE	♦SPR
	SST	STI
	THCF	TIIC
	TIID	TIIF
		UPI
2N5448	Δ♦TII	132- 54
	♦ALGG	CEN
	CSR	♦GESY
	ITT	MEHK
	MISI	NASB
	NPC	NTR
	SES	SLD
	SPE	♦SPR
	SST	STI
	THCF	TIIC
	TIID	TIIF
		UPI
2N5449	Δ♦TII	166- 65
	♦GESY	MEHK
	MISI	NASB
	NPC	NTR
	SEI	SES
	SLD	SPE
	♦SPR	SST
	STI	THCF
	TIIC	TIID
	TIIF	UPI
2N5450	Δ♦TII	166- 66
	♦GESY	MISI
	NASB	NPC
	NTR	SEI
	SES	SLD
	SPE	♦SPR
	SST	STI
	THCF	TIIC
	TIID	TIIF
		UPI
2N5451	Δ♦TII	166- 67
	♦GESY	MISI
	NASB	NPC
	NTR	SES
	SLD	SPE
	♦SPR	SST
	STI	THCF
	TIIC	TIID
		TIIF
2N5452	Δ♦SODI	193- 8
	CEN	INL 341- 16
	NSC	♦SIX
	SST	TADI
2N5453	Δ♦SODI	341- 17
	CEN	INL 193- 9
	NSC	♦SIX
	SPE	SST
		TADI
2N5454	Δ♦SODI	193- 10
	AMR	CEN 341- 18
	INL	NSC
	♦SIX	SPE
		SST
2N5455	SODI	130- 34
	SST	STI 290-104
2N5456	SST	290-105
		130- 35

TYPE No.	MFRS	Pg&Line
2N5457	Δ♦MOTA	197- 11
	CEN	CRI
	GTC	♦INL
	MEHK	NASB
	NSC	♦SIX
	SPE	SST
		TSC
2N5458	Δ♦MOTA	197- 12
	CEN	CRI
	GTC	♦INL
	MEHK	NASB
	NSC	♦SIX
	SPE	SST
		TSC
2N5459	Δ♦MOTA	197- 13
	CEN	CRI
	GTC	♦INL
	MEHK	NASB
	NSC	SEI
	♦SIX	SPE
	SST	TSC
2N5460	Δ♦MOTA	189- 80
	CEN	GTC
	♦INL	NSC
	SPE	♦TII
2N5461	Δ♦MOTA	189- 81
	CEN	GTC
	♦INL	NSC
	SPE	♦TII
2N5462	Δ♦MOTA	189- 82
	CEN	CRI
	GTC	♦INL
	NSC	SPE
		♦TII
2N5463	Δ♦MOTA	189- 83
	♦INL	SPE
2N5464	Δ♦MOTA	189- 84
	♦INL	SPE
2N5465	Δ♦MOTA	189- 85
	♦INL	SPE
2N5466	Δ♦SOD	271- 80
	AMC	IDI
	KER	SCA
	♦SPC	♦STC
	STI	TEC
2N5467	Δ♦SOD	271- 81
	AMC	IDI
	KER	SCA
	♦SPC	♦STC
	STI	TEC
2N5468	Δ♦SOD	261- 28
	AMC	KER
	SCA	♦STC
		TEC
2N5469	Δ♦SOD	261- 29
	KER	SCA
	♦STC	TEC
JAN2N5470	none	234- 37
		350- 36
2N5471	Δ♦MOTA	189- 14
	AMX	CRI
2N5472	Δ♦MOTA	189- 15
	AMX	CRI
2N5473	Δ♦MOTA	189- 16
		AMX
2N5474	Δ♦MOTA	189- 17
	AMR	AMX
	CRI	INL
2N5475	Δ♦MOTA	189- 18
	AMX	INL
2N5476	Δ♦MOTA	189- 19
	AMX	INL
2N5477	AMC	260- 64
	GSE	GTC 304- 8
	IDI	KER
	♦PPC	SCA
	SSI	♦STC
	TEC	TRW
		UNI
2N5478	AMC	304- 9
	CRI	GSE 260- 65
	GTC	IDI
	KER	♦PPC
	SCA	SSI
	♦STC	TEC
	TRW	UNI
2N5479	AMC	260- 66
	CRI	GSE 304- 10
	GTC	IDI
	KER	♦PPC
	SCA	SSI
	♦STC	TEC
	TRW	UNI
2N5480	AMC	304- 11
	CRI	GSE 260- 67
	GTC	IDI
	KER	♦PPC
	SCA	SSI
	♦STC	TEC
	TRW	UNI
2N5481	Δ♦TRW	237- 15
2N5482	Δ♦TRW	242-102
2N5483	Δ♦TRW	248- 64
2N5484	Δ♦MOTA	197- 14
	CEN	GTC
	INL	MEHK
	NASB	NSC
	♦SIX	SST
		TSC
2N5485	Δ♦MOTA	197- 15
	CEN	CRI
	GTC	INL
	MEHK	NASB
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TYPE No.	MFRS	Pg&Line
2N5619		
(cont.)	CRI	
	♦KER	PPC
	SCA	SOD
	SSI	STC
2N5620	AMC	259 - 26
	CRI	CSI
	♦GSE	GTC
	IDI	♦KER
	♦PPC	SCA
	SDE	SOD
	SSI	STC
		TRW
2N5621	AMC	226 - 3
	CRI	CSR
	♦KER	PPC
	SCA	SOD
	SPE	STC
2N5622	AMC	270 - 23
	CRI	CSR
	♦GSE	GTC
	IDI	♦KER
	♦PPC	SCA
	SDE	SOD
	SSI	STC
		TRW
2N5623	AMC	226 - 4
	CRI	CSR
	♦KER	PPC
	SCA	SOD
		STC
2N5624	AMC	270 - 24
	CRI	CSR
	♦GSE	GTC
	IDI	♦KER
	♦PPC	SCA
	SDE	SOD
	SSI	STC
		TRW
2N5625	AMC	226 - 5
	CRI	CSR
	PPC	SCA
	SOD	STC
2N5626	AMC	270 - 25
	AMR	CRI
	CSR	♦GSE
	GTC	IDI
	♦KER	♦PPC
	SCA	SDE
	SOD	SSI
	STC	TRW
2N5627	AMC	226 - 6
	AMR	CRI
	CSR	♦KER
	PPC	SCA
	SOD	SSI
		STC
2N5628	AMC	270 - 26
	CRI	CSR
	♦GSE	GTC
	IDI	♦KER
	♦PPC	SCA
	SDE	SOD
	SSI	STC
		TRW
2N5629	Δ♦MOTA	278 - 3
	AMC	CRI
	CSR	FSC
	GTC	IDI
	INR	♦KER
	♦PPC	SCA
	SDE	♦SEN
	SLD	SOD
	♦SPC	SSI
	SST	STC
	TEC	TRW
2N5630	Δ♦MOTA	278 - 4
	AMC	CRI
	CSR	GTC
	IDI	INR
	♦KER	PPC
	SCA	SDE
	♦SEN	SES
	SLD	SOD
	♦SPC	SPE
	SSI	SST
	STC	TEC
		TRW
2N5631	Δ♦MOTA	278 - 5
	AMC	CRI
	CSR	GTC
	IDI	INR
	♦KER	PPC
	SCA	SDE
	♦SEN	SES
	SLD	SOD
	♦SPC	SSI
	SST	STC
		TEC
2N5632	Δ♦MOTA	274 - 41
	AMC	CRI
	CSR	FSC
	GTC	IDI
	INR	♦KER
	PPC	SCA
	♦SEN	SES
	SLD	SOD
	♦SPC	SSI
	SST	STC
	TEC	TRW
2N5633	Δ♦MOTA	274 - 42
	AMC	CRI
	CSR	GTC

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TYPE No.	MFRS	Pg&Line
2N5633		
(cont.)	IDI	
	INR	♦KER
	PPC	SCA
	♦SEN	SES
	SLD	SOD
	♦SPC	SSI
	SST	STC
	TEC	TRW
2N5634	Δ♦MOTA	274 - 43
	AMC	CRI
	CSR	GTC
	IDI	INR
	♦KER	PPC
	SCA	♦SEN
	SES	SLD
	SOD	♦SPC
	SSI	SST
	STC	TEC
2N5635	CRI	262-110
	♦MOTA	♦SSS
	TADI	TIC
2N5636	AMR	247 - 26
	CRI	KER
	♦MOTA	♦SSS
	TADI	TIC
2N5637	CRI	252 - 56
	KER	♦MOTA
	♦SSS	TADI
		TIC
2N5638	Δ♦MOTA	288 - 63
	CEN	CRI	197 - 18
	INL	MEHK
	NASB	NSC
	♦SIX	SODI
	SPE	SST
		TSC
2N5639	Δ♦MOTA	197 - 19
	CEN	CRI	289 - 4
	INL	MEHK
	NASB	NSC
	♦SIX	SODI
	SST	TSC
2N5640	Δ♦MOTA	289 - 30
	CEN	CRI	197 - 20
	INL	MEHK
	NASB	NSC
	♦SIX	SODI
	SST	TSC
2N5641	Δ♦MOTA	247 - 27
	CRI	♦SES
	♦SSS	TADI
		TIC
2N5642	Δ♦MOTA	252 - 57
	CRI	♦SES
	♦SSS	TADI
	TIC	TIIB
2N5643	Δ♦MOTA	260 - 50
	CRI	♦SES
	SPE	♦SSS
	TADI	TIIB
2N5644	Δ♦MOTA	234 - 44
	CRI	SOD
	SSS	TIC
		TIIB
2N5645	Δ♦MOTA	245 - 57
	CRI	SSS
		TIIB
2N5646	Δ♦MOTA	252 - 58
	CRI	KER
		SSS
2N5647	CRI	194 - 69
	INL	NASB
	SODI	TSC
2N5648	CRI	194 - 70
	INL	NASB
	SODI	TSC
2N5649	CRI	194 - 71
	INL	NASB
	SODI	TSC
2N5650	ΔNECJ	146 - 82
	CSI	
2N5651	ΔNECJ	146 - 83
	CRI	CSI
	GTC	MIC
2N5652	ΔNECJ	146 - 84
	CRI	CSI
	GTC	MIC
2N5653	Δ♦MOTA	197 - 21
	CEN	CRI	288 - 64
	♦INL	MEHK
	NASB	NSC
	SIX	TSC
2N5654	Δ♦MOTA	289 - 5
	AMR	CEN	197 - 22
	CRI	♦INL
	MEHK	NASB
	NSC	SIX
	SPE	TSC
2N5655	Δ♦MOTA	251 - 5
	CRI	NSC
		SST
2N5656	Δ♦MOTA	251 - 6
	CRI	NSC
		SST
2N5657	Δ♦MOTA	251 - 7
	CRI	NSC
	SPE	SST
2N5658	ΔUNI	257 - 95
	AMC	CRI	307 - 58
	CSR	GSE
	IDI	KER
	PPC	SCA

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TYPE No.	MFRS	Pg&Line
2N5658		
(cont)	SSI	
	♦STC	TRW
2N5659	ΔUNI	307 - 59
	AMC	CRI	257 - 96
	GSE	IDI
	KER	PPC
	SCA	SLD
	SSI	SST
	♦STC	TRW
		TSI
2N5660	Δ♦UNI	309-101
	AMC	CRI	253 - 9
	♦GSE	IDI
	♦KER	SCA
	SOD	SSI
		♦STC
JAN2N5660	UNI	233 - 22
		310 - 47
2N5661	Δ♦UNI	309-102
	AMC	CRI	253 - 10
	♦GSE	IDI
	♦KER	SCA
	SOD	SSI
		♦STC
JAN2N5661	UNI	233 - 23
		310 - 48
2N5662	Δ♦UNI	309-103
	AMC	CRI	250 - 75
	CSR	♦GSE
	GTC	IDI
	♦KER	SCA
	SOD	SSI
	STC	STI
JAN2N5662	UNI	232 - 73
		310 - 49
2N5663	Δ♦UNI	309-104
	AMC	CRI	250 - 76
	CSR	♦GSE
	GTC	IDI
	♦KER	SCA
	SOD	SSI
		STC
JAN2N5663	UNI	232 - 74
		310 - 50
2N5664	Δ♦UNI	309-105
	AMC	AMR	257 - 97
	CRI	IDI
	♦KER	SCA
	SOD	SSI
		♦STC
JAN2N5664	SOD	310 - 51
	UNI	233 - 91
2N5665	Δ♦UNI	309-106
	AMC	CRI	257 - 98
	IDI	♦KER
	SCA	SOD
	SSI	♦STC
JAN2N5665	SOD	310 - 52
	UNI	233 - 92
2N5666	Δ♦UNI	250 - 77
	AMC	CSR	309-107
	GTC	IDI
	♦KER	SCA
	SSI	STC
JAN2N5666	SOD	310 - 53
	UNI	232 - 75
2N5667	Δ♦UNI	250 - 78
	AMC	CRI	309-108
	CSR	IDI
	♦KER	SCA
	SSI	STC
		STI
JAN2N5667	SOD	310 - 54
	UNI	232 - 76
2N5668	Δ♦MOTA	197 - 23
	CEN	CRI
	INL	MEHK
	NASB	NSC
	SIX	SODI
	SPE	TSC
2N5669	Δ♦MOTA	197 - 24
	CEN	CRI
	INL	MEHK
	NASB	NSC
	SIX	SODI
	SPE	SST
		TSC
2N5670	Δ♦MOTA	197 - 25
	CEN	CRI
	INL	NASB
	NSC	SIX
	SODI	SST
		TSC
2N5671	Δ♦RCA	318 - 6
	AMC	CRI	271 - 82
	GSE	GTC
	IDI	♦KER
	MISI	NPC
	PPC	RCAB
	SCA	SDE
	SGAI	SOD
	SSI	♦STC
	THCF	♦TII
	TIIB	TRW
JAN2N5671	RCA	271 - 83
		318 - 64
2N5672	Δ♦RCA	271 - 84
	AMC	GSE	318 - 7
	GTC	IDI
	♦KER	MISI
	NPC	PPC
	RCAB	SCA

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TYPE No.	MFRS	Pg&Line
2N5672		
(cont.)	SDE	
	SGAI	SOD
	SSI	♦STC
	THCF	♦TII
	TIIB	TRW
JAN2N5672	RCA	271 - 85
		318 - 65
2N5675	AMC	216 - 60
	CSR	KER
	PPC	SSI
	STC	TEC
2N5676	CSR	220 - 5
	KER	SSI
	STC	TEC
2N5677	ΔSOD	224 - 95
	AMC	♦KER	316 - 68
	PPC	SCA
	SSI	STC
		TEC
2N5678	ΔSOD	316 - 69
	AMC	♦KER	226-100
	SSI	STC
		TEC
2N5679	Δ♦MOTA	214 - 44
	AMC	CEC
	CSR	FSC
	GTC	IDI
	KER	NASB
	SCA	SES
	SPE	SSI
	STC	STI
	TADI	TEC
2N5680	Δ♦MOTA	214 - 45
	AMC	CEC
	CSR	FSC
	GTC	IDC
	IDI	KER
	NASB	SCA
	SES	SSI
	STC	STI
	TADI	TEC
2N5681	Δ♦MOTA	231 - 55
	AMC	AMR
	CSR	FSC
	GTC	IDI
	♦KER	NASB
	SCA	SDE
	SES	SOD
	SPE	SSI
	STC	STI
	TADI	TEC
2N5682	Δ♦MOTA	231 - 56
	AMC	CSR
	FSC	GTC
	IDI	♦KER
	NASB	SCA
	SDE	SES
	SOD	SPE
	SSI	STC
	STI	TADI
		TEC
2N5683	Δ♦MOTA	227 - 68
	AMC	GTC
	INR	♦KER
	PPC	SES
	♦STC	TEC
	♦TII	TIIB
JAN2N5683	MOTA	227 - 69
		323 - 65
2N5684	Δ♦MOTA	227 - 70
	AMC	GTC
	INR	♦KER
	PPC	SEI
	SES	♦STC
	TEC	♦TII
		TIIB
JAN2N5684	MOTA	227 - 71
		323 - 66
2N5685	Δ♦MOTA	282 - 98
	AMC	CRI
	GTC	INR
	♦KER	PPC
	SCA	SES
	SPE	SSI
	♦STC	TEC
	♦TII	TIIB
JAN2N5685	MOTA	282 - 99
		323 - 67
2N5686	Δ♦MOTA	282-100
	AMC	CRI
	GTC	INR
	♦KER	PPC
	SCA	SEI
	SES	SPE
	SSI	♦STC
	TEC	♦TII
		TIIB
JAN2N5686	MOTA	282-101
		323 - 68
2N5687	ΔTRW	237 - 22
	CSR	IDI
	KER	TEC
		TIC
2N5688	ΔTRW	242 - 79
	CRI	KER
		TIC
2N5689	ΔTRW	250 - 60
	CRI	KER
		TIC
2N5690	ΔTRW	257 - 59
	CRI	

TYPE No.	MFRS	Pg&Line
2N5691	ΔTRW	264 - 5
	CRI	
2N5692	GPD	329 - 3
		210 - 34
2N5693	GPD	210 - 35
		329 - 4
2N5694	GPD	329 - 5
		210 - 36
2N5695	GPD	210 - 37
		329 - 6
2N5696	GPD	329 - 7
		210 - 38
2N5697	ΔTRW	234 - 45
	CRI	CSI
	SCA	SPE
		TIC
2N5698	ΔTRW	237 - 23
	CRI	TIC
2N5699	ΔTRW	242-103
		TIC
2N5700	ΔTRW	253 - 11
	CRI	IDI
2N5701	ΔTRW	253 - 12
		TIC
2N5702	ΔTRW	186 - 94
	CRI	SCA
		TIC
2N5703	ΔTRW	242-104
	KER	TIC
2N5704	ΔTRW	250 - 61
	KER	TIC
2N5705	ΔTRW	255 - 91
		KER
2N5706	ΔTRW	263 - 38
		TIIB
2N5707	ΔTRW	261 - 39
		KER
2N5708	ΔTRW	266 - 2
		KER
2N5709	ΔTRW	271 - 86
		KER
2N5710	ΔTRW	234 - 46
	CRI	CSI
	SCA	TIIB
2N5711	ΔTRW	266 - 3
	CRI	KER
2N5712	ΔTRW	250 - 62
	CRI	KER
2N5713	ΔTRW	256 - 89
		CRI
2N5714	ΔTRW	261 - 40
		CRI
2N5715	Δ♦TRW	238 - 88
	CRI	STI
2N5716	Δ♦MOTA	192 - 4
	CEN	CRI
	IDI	MEHK
		NASB
2N5717	Δ♦MOTA	192 - 5
	CEN	CRI
	IDI	MEHK
	NASB	NSC
2N5718	Δ♦MOTA	192 - 6
	CEN	CRI
	IDI	MEHK
	NASB	NSC
2N5729	AMC	244 - 14
	AMR	CRI	308 - 85
	CSR	GSE
	GTC	IDI
	KER	PPC
	SCA	SLD
	SOD	SSI
	SST	♦STC
	TEC	TRW
2N5730	AMC	308 - 86
	CRI	CSR	257 - 99
	GSE	GTC
	IDI	KER
	PPC	SCA
	SLD	SOD
	SSI	SST
	♦STC	TEC
		TRW
2N5731	AMC	264 - 6
	CRI	CSR	311 - 34
	GSE	GTC
	IDI	♦KER
	PPC	SCA
	SLD	SOD
	SSI	SST
	♦STC	TRW
2N5732	AMC	311 - 35
	CRI	CSR	264 - 7
	♦GSE	GTC
	IDI	♦KER
	PPC	SCA
	SLD	SOD
	SPE	SSI
	SST	♦STC
		TRW
2N5733	AMC	275 - 8
	CRI	CSR	320 - 33
	GSE	GTC
	IDI	♦KER
	PPC	SCA
	SDE	SLD
	SOD	SPC
	SSI	SST
		♦STC
2N5734	AMC	320 - 34
	CRI	CSR	275 - 9
	GSE	GTC

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TYPE No.	MFRS	Pg&Line
2N5882		
(cont)	♦STC	
TEC	♦TII	
	TIIB	
2N5883	Δ♦MOTA	227 - 22
AMC	CSR	320 - 14
FSC	GTC	
IDI	INR	
KER	PPC	
SES	SOD	
SSI	♦STC	
TEC	♦TII	
	TIIB	
2N5884	Δ♦MOTA	320 - 15
AMC	CSR	227 - 23
FSC	GTC	
IDI	INR	
KER	PPC	
SES	SOD	
SSI	♦STC	
TEC	♦TII	
	TIIB	
2N5885	Δ♦MOTA	278 - 6
AMC	CSR	320 - 16
FSC	GTC	
IDI	INR	
KER	PPC	
SCA	SES	
SOD	SPC	
SPE	SSI	
♦STC	TEC	
♦TII	TIIB	
2N5886	Δ♦MOTA	320 - 17
AMC	CSR	278 - 7
FSC	GTC	
IDI	INR	
KER	PPC	
SCA	SES	
SOD	SPC	
SSI	♦STC	
TEC	♦TII	
TIIB	TRW	
2N5887	CEN	206 - 22
♦GPD	GTC	
	STC	
2N5888	CEN	206 - 23
♦GPD	GTC	
	STC	
2N5889	CEN	206 - 24
♦GPD	GTC	
♦PPC	STC	
2N5890	CEN	206 - 25
♦GPD	GTC	
	STC	
2N5891	CEN	206 - 26
♦GPD	GTC	
	STC	
2N5892	♦GPD	206 - 27
	STC	
2N5893	♦GPD	206 - 28
GTC	STC	
2N5894	♦GPD	206 - 29
GTC	STC	
2N5895	♦GPD	206 - 30
GTC	STC	
2N5896	♦GPD	206 - 31
	STC	
2N5897	♦GPD	206 - 32
	STC	
2N5898	♦GPD	206 - 33
	STC	
2N5899	♦GPD	206 - 34
	STC	
2N5900	♦GPD	206 - 35
	STC	
2N5901	♦GPD	206 - 36
SST	STC	
2N5902	Δ♦SIX	200 - 2
AMR	CRI	341 - 42
♦INL	NSC	
SODI	TSC	
2N5903	Δ♦SIX	341 - 43
♦INL	NSC	200 - 3
SODI	TSC	
2N5904	Δ♦SIX	200 - 4
♦INL	NSC	341 - 44
SODI	TSC	
2N5905	Δ♦SIX	341 - 45
♦INL	NSC	200 - 5
SODI	TSC	
2N5906	Δ♦SIX	200 - 6
♦INL	NSC	341 - 46
SODI	TSC	
2N5907	Δ♦SIX	341 - 47
♦INL	NSC	200 - 7
SODI	TSC	
2N5908	Δ♦SIX	200 - 8
CRI	♦INL	341 - 48
NSC	SODI	
	TSC	
2N5909	Δ♦SIX	341 - 49
♦INL	NSC	200 - 9
SODI	SPE	
	TSC	
2N5910	Δ♦FSC	130 - 27
CEN	CSR	291 - 15
IDI	MEHK	
NASB	NSC	
2N5911	Δ♦SIX	200 - 10
INL	NSC	341 - 50
SODI	TSC	
2N5912	Δ♦SIX	341 - 51
INL	NSC	200 - 11
SODI	TSC	
2N5913	Δ♦RCA	237 - 28
CSR	KER	
SCA	SPE	
SSS	TIC	
2N5914	CRI	240-100
JAN2N5918	none	245 - 84
JAN2N5919A	none	253 - 13
2N5922	AMR	237 - 29
CRI	TIC	
2N5926	ΔPTI	283 - 82
AMC	KER	326 - 27
SOD	SSI	
STC	TEC	
JAN2N5926	PTI	327 - 3
		283 - 83
2N5927	Δ♦PTI	283 - 84
KER	SSI	326 - 28
	♦STC	
JAN2N5927	PTI	327 - 4
		283 - 85
2N5928	ΔPTI	283 - 86
KER	SSI	327 - 5
	STC	
2N5929	CRI	275 - 10
GSE	KER	317 - 27
SCA	SES	
♦SSI	♦STC	
2N5930	GSE	317 - 28
KER	SCA	275 - 11
SES	♦SSI	
	♦STC	
2N5931	AMR	275 - 12
GSE	KER	317 - 29
SCA	SES	
♦SSI	♦STC	
2N5932	GSE	275 - 13
KER	SCA	319 - 47
SES	♦SSI	
	♦STC	
2N5933	GSE	319 - 48
KER	SCA	275 - 14
SES	♦SSI	
	♦STC	
2N5934	CRI	275 - 15
GSE	KER	319 - 49
SCA	SES	
♦SSI	♦STC	
2N5935	GSE	320 - 35
KER	SCA	275 - 16
SES	♦SSI	
	♦STC	
2N5936	GSE	275 - 17
KER	SCA	320 - 36
SES	♦SSI	
	♦STC	
2N5937	GSE	320 - 37
KER	SCA	275 - 18
SES	♦SSI	
	♦STC	
2N5938	Δ♦TII	253 - 14
PPC	TIIB	349 - 25
2N5939	Δ♦TII	349 - 26
AMC	CRI	261 - 42
KER	PPC	
STC	TIIB	
	TIID	
2N5940	Δ♦TII	261 - 43
AMC	KER	349 - 27
PPC	STC	
TIIB	TIID	
2N5941	♦MOTA	263 - 36
	SPE	
2N5942	KER	271 - 87
2N5943	Δ♦MOTA	234 - 47
GTC	SCA	
SPE	SSS	
	SST	
2N5944	Δ♦MOTA	237 - 30
CRI	♦SSS	
2N5945	Δ♦MOTA	247 - 20
KER	♦SSS	
2N5946	Δ♦MOTA	254 - 54
	♦SSS	
2N5947	Δ♦MOTA	247 - 38
	SSS	
2N5949	Δ♦TII	198 - 76
AMR	NASB	
NSC	TIIC	
	TSC	
2N5950	Δ♦TII	198 - 77
AMR	CRI	
NASB	NSC	
TIIC	TSC	
2N5951	Δ♦TII	198 - 78
AMR	NASB	
NSC	TIIC	
	TSC	
2N5952	Δ♦TII	198 - 79
AMR	NASB	
NSC	TSC	
2N5953	Δ♦TII	198 - 80
AMR	NASB	
NSC	TIIC	
	TSC	
2N5954	Δ♦RCA	221 - 74
AMC	CSR	
KER	♦PPC	
RCAB	SST	
♦STC	TEC	
2N5955	Δ♦RCA	221 - 75
AMC	CRI	
CSR	KER	
♦PPC	RCAB	
♦STC	TEC	
2N5956	Δ♦RCA	221 - 76
AMC	CSR	
KER	♦PPC	
RCAB	SPE	
SST	♦STC	
	TEC	
2N5957	ΔTEC	275 - 19
AMC	CSR	322 - 33
GTC	IDI	
KER	SCA	
SOD	SSI	
	♦STC	
JAN2N5957	none	322 - 41
		275 - 20
2N5958	ΔTEC	226-101
AMC	♦KER	322 - 34
SCA	SOD	
SSI	STC	
JAN2N5958	none	322 - 42
		226-102
2N5959	ΔTEC	275 - 21
AMC	CSR	322 - 35
GTC	IDI	
KER	SCA	
SOD	SPC	
SSI	♦STC	
JAN2N5959	none	322 - 43
		275 - 22
2N5960	ΔTEC	226-103
AMC	CRI	322 - 36
♦KER	SCA	
SOD	SSI	
	STC	
JAN2N5960	none	322 - 44
		226-104
2N5961	ΔFSC	179 - 55
CEN	CSR	
SPE	SST	
2N5962	ΔFSC	179 - 56
CEN	CSR	
MEHK	SPE	
2N5965	STI	181 - 15
2N5966	ΔTEC	322 - 37
AMC	GTC	278 - 43
IDI	♦KER	
SCA	SSI	
	STC	
JAN2N5966	none	278 - 44
		322 - 45
2N5967	ΔTEC	322 - 38
AMC	♦KER	227 - 41
SOD	STC	
JAN2N5967	none	227 - 42
		322 - 46
2N5968	ΔTEC	322 - 39
AMC	CRI	278 - 45
GTC	IDI	
♦KER	SCA	
SOD	SPC	
SSI	♦STC	
JAN2N5968	none	278 - 46
		322 - 47
2N5969	ΔTEC	322 - 40
AMC	♦KER	227 - 43
SOD	STC	
JAN2N5969	none	227 - 44
		322 - 48
2N5970	AMC	319 - 3
CSR	IDI	274 - 26
KER	SCA	
♦SSI	STC	
	TEC	
2N5971	CSR	274 - 27
IDI	KER	319 - 4
SCA	♦SSI	
STC	TEC	
2N5972	CSR	319 - 5
IDI	KER	274 - 28
SCA	♦SSI	
STC	TEC	
2N5973	AMR	274 - 29
CSR	IDI	319 - 6
KER	SCA	
♦SSI	STC	
	TEC	
2N5974	Δ♦MOTA	225 - 57
CRI	♦PPC	
2N5975	Δ♦MOTA	225 - 58
	♦PPC	
2N5976	Δ♦MOTA	225 - 59
	♦PPC	
2N5977	Δ♦MOTA	266 - 46
2N5978	Δ♦MOTA	266 - 47
	SPE	
2N5979	Δ♦MOTA	266 - 48
	CRI	
2N5980	Δ♦MOTA	226 - 26
2N5981	Δ♦MOTA	226 - 27
2N5982	Δ♦MOTA	226 - 28
2N5983	Δ♦MOTA	271 - 52
2N5984	Δ♦MOTA	271 - 53
	CRI	
2N5985	Δ♦MOTA	271 - 54
2N5986	Δ♦MOTA	226 - 48
2N5987	Δ♦MOTA	226 - 49
	SPE	
2N5988	Δ♦MOTA	226 - 50
2N5989	Δ♦MOTA	271 - 88
	CRI	
2N5990	Δ♦MOTA	271 - 89
2N5991	Δ♦MOTA	271 - 90
2N5994	SPE	257 - 32
2N5995	SPE	247 - 21
2N5996	SPE	257 - 33
2N5998	♦SES	168 - 71
♦SPR	STI	
	STR	
2N5999	CRI	133 - 84
♦SES	♦SPR	
STI	STR	
2N6000	Δ♦GESY	174-109
NTR	♦SES	290 - 81
	STR	
2N6001	Δ♦GESY	291 - 50
NTR	♦SES	135-108
SPE	SST	
STI	STR	
2N6002	♦SES	169-106
SPE	STI	290-106
	STR	
2N6003	♦SES	291 - 52
SST	STI	135-110
	STR	
2N6004	Δ♦GESY	169 - 96
CRI	NTR	290 - 82
♦SES	SST	
STI	STR	
2N6005	♦SES	291 - 51
SPE	SST	135-109
STI	STR	
2N6006	Δ♦GESY	169-107
♦SES	STI	290-107
	STR	
2N6007	♦SES	291 - 53
SPE	STI	136 - 1
	STR	
2N6008	♦SES	168 - 72
SPE	♦SPR	
STI	STR	
2N6009	CRI	133 - 85
NTR	♦SES	
♦SPR	STI	
	STR	
2N6010	Δ♦GESY	174-107
NTR	♦SES	293 - 63
STI	STR	
2N6011	Δ♦GESY	295 - 87
NTR	♦SES	137 - 71
SPE	STI	
	STR	
2N6012	♦SES	175 - 19
STI	STR	293 - 69
2N6013	♦SES	296 - 34
SPE	STI	137 - 96
	STR	
2N6014	Δ♦GESY	174-108
CRI	♦SES	293 - 64
SPE	STI	
	STR	
2N6015	Δ♦GESY	295 - 88
NTR	♦SES	137 - 72
STI	STR	
2N6016	♦SES	175 - 20
STI	STR	293 - 70
2N6017	♦SES	296 - 35
STI	STR	137 - 97
2N6021	SES	222 - 46
	STR	
2N6022	SES	222 - 47
	STR	
2N6023	SES	222 - 48
	STR	
2N6024	SES	222 - 49
SPE	STR	
2N6025	SES	222 - 50
	STR	
2N6026	SES	222 - 51
	STR	
2N6029	Δ♦MOTA	227 - 24
AMC	GTC	
INR	KER	
PPC	SPE	
STC	TEC	
2N6030	Δ♦MOTA	227 - 25
AMC	GTC	
INR	KER	
PPC	STC	
	TEC	
2N6031	Δ♦MOTA	227 - 26
AMC	GTC	
INR	KER	
PPC	STC	
	TEC	
2N6032	Δ♦RCA	271 - 91
AMC	♦GSE	322 - 3
GTC	KER	
MISI	NPC	
PPC	RCAB	
SCA	SSI	
♦STC	THCF	
2N6033	Δ♦RCA	322 - 4
AMC	♦GSE	271 - 92
GTC	KER	
MISI	NPC	
PPC	RCAB	
SCA	SSI	
♦STC	THCF	
2N6034	Δ♦MOTA	332 - 75
CRI	GTC	
IDI	NSC	
	SGAI	
2N6035	Δ♦MOTA	332 - 76
GTC	IDI	
NSC	SGAI	
2N6036	Δ♦MOTA	332 - 77
GTC	IDI	
NSC	SGAI	
2N6037	Δ♦MOTA	332 - 78
GTC	IDI	
NSC	SGAI	
2N6038	Δ♦MOTA	332 - 79
GTC	IDI	
NSC	SGAI	
	SPE	
2N6039	Δ♦MOTA	332 - 80
GTC	IDI	
NSC	SGAI	
2N6040	Δ♦MOTA	331 - 15
CRI	IDI	
	SPE	
2N6041	Δ♦MOTA	331 - 16
	IDI	
2N6042	Δ♦MOTA	331 - 13
	IDI	
2N6043	Δ♦MOTA	331 - 17
IDI	KER	
	SPE	
2N6044	Δ♦MOTA	331 - 18
	IDI	
2N6045	Δ♦MOTA	331 - 14
	IDI	
2N6046	AMC	319 - 50
AMR	CRI	278 - 8
CSR	GSE	
GTC	IDI	
KER	SCA	
SES	SOD	
SPC	♦SSI	
♦STC	TRW	
2N6047	AMC	278 - 9
CSR	GSE	319 - 51
GTC	IDI	
KER	SCA	
SES	SOD	
SPC	♦SSI	
♦STC	TRW	
2N6048	AMC	319 - 52
CSR	GSE	278 - 10
IDI	KER	
SCA	SES	
SOD	SPC	
♦SSI	♦STC	
2N6049	Δ♦MOTA	224 - 18
AMC	GTC	
IDI	KER	
PPC	♦STC	
2N6050	Δ♦MOTA	336 - 64
GTC	INR	
KER	♦PMN	
SGAI	♦STC	
2N6051	Δ♦MOTA	336 - 65
GTC	INR	
KER	♦PMN	
SGAI	♦STC	
JAN2N6051	none	337 - 45
		322 - 13
2N6052	Δ♦MOTA	336 - 66
CRI	GTC	
INR	KER	
♦PMN	SGAI	
	♦STC	
JAN2N6052	none	337 - 46
		322 - 14
2N6053	Δ♦MOTA	334-106
GTC	INR	
KER	♦PMN	
PPC	SGAI	
♦STC	TEC	
2N6054	Δ♦MOTA	334-107
GTC	INR	
KER	♦PMN	
PPC	♦RCA	
RCAB	SGAI	
♦STC	TEC	
2N6055	Δ♦MOTA	334-108
GTC	INR	
KER	♦PMN	
PPC	♦RCA	
RCAB	SGAI	
SPE	♦STC	
	TEC	
2N6056	Δ♦MOTA	334-109
GTC	INR	
KER	♦PMN	
PPC	♦RCA	
RCAB	SGAI	
♦STC	TEC	
2N6057	Δ♦MOTA	336 - 67
GTC	INR	
KER	♦PMN	
SGAI	SPE	
♦STC	TEC	
2N6058	Δ♦MOTA	336 - 68
CRI	GTC	
INR	KER	
♦PMN	SGAI	
♦STC	TEC	
JAN2N6058	none	337 - 51
		322 - 15
2N6059	Δ♦MOTA	336 - 69
GTC	INR	
KER	♦PMN	
SGAI	♦STC	
	TEC	
JAN2N6059	none	337 - 52
		322 - 16
2N6060	ΔTEC	323 - 54
AMC	IDI	282 - 9
♦KER	SCA	
SOD	SSI	
	STC	

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TYPE No.	MFRS	Pg&Line
JAN2N6274	none	318 - 58
		280 - 98
2N6275	Δ♦MOTA	280 - 99
AMC	♦GSE	313 - 30
GTC	INR	
KER	PPC	
SCA	SSI	
	♦STC	
2N6276	Δ♦MOTA	313 - 31
AMC	♦GSE	280-100
GTC	INR	
KER	PPC	
SCA	SSI	
	♦STC	
2N6277	Δ♦MOTA	280-101
AMC	♦GSE	313 - 32
GTC	INR	
KER	SCA	
SSI	♦STC	
JAN2N6277	none	318 - 59
		280-102
2N6278	Δ♦MOTA	280-103
AMC	♦GSE	313 - 33
GTC	IDI	
KER	SCA	
SOD	SPC	
SSI	♦STC	
2N6279	Δ♦MOTA	313 - 34
AMC	CRI	280-104
♦GSE	KER	
SCA	SOD	
SPC	SSI	
	♦STC	
2N6280	Δ♦MOTA	280-105
AMC	♦GSE	313 - 35
KER	SCA	
SOD	SPC	
SSI	♦STC	
2N6281	Δ♦MOTA	313 - 36
AMC	♦GSE	280-106
KER	SCA	
SOD	SPC	
SSI	♦STC	
2N6282	Δ♦MOTA	336 - 88
GTC	INR	
KER	♦PMN	
	♦STC	
2N6283	Δ♦MOTA	336 - 89
GTC	INR	
KER	♦PMN	
	♦STC	
2N6284	Δ♦MOTA	336 - 90
GTC	INR	
KER	♦PMN	
	♦STC	
2N6285	Δ♦MOTA	336 - 91
CRI	GTC	
INR	KER	
♦PMN	♦STC	
2N6286	Δ♦MOTA	336 - 92
GTC	INR	
KER	♦PMN	
	♦STC	
2N6287	Δ♦MOTA	336 - 93
GTC	INR	
KER	♦PMN	
	♦STC	
2N6288	Δ♦RCA	258 - 38
GTC	IDI	
MEHK	NSC	
RCAB	SGAI	
2N6289	Δ♦RCA	258 - 39
NSC	RCAB	
2N6290	Δ♦RCA	258 - 40
GTC	IDI	
MEHK	NSC	
RCAB	SGAI	
	SPE	
2N6291	Δ♦RCA	258 - 41
CRI	NSC	
	RCAB	
2N6292	Δ♦RCA	258 - 42
GTC	IDI	
MEHK	NSC	
RCAB	SGAI	
	SPE	
2N6293	Δ♦RCA	258 - 43
NSC	RCAB	
2N6294	Δ♦MOTA	332 - 58
KER	♦STC	
2N6295	Δ♦MOTA	332 - 59
KER	♦STC	
2N6296	Δ♦MOTA	222 - 44
CRI	KER	
	♦STC	
2N6297	Δ♦MOTA	222 - 45
KER	♦STC	
2N6298	Δ♦MOTA	333 - 35
KER	♦STC	
2N6299	Δ♦MOTA	333 - 36
KER	♦STC	
2N6300	Δ♦MOTA	333 - 37
KER	♦STC	
2N6301	Δ♦MOTA	333 - 38
KER	♦STC	
2N6302	KER	274 - 50
SPE	STC	
2N6303	Δ♦MOTA	301 - 73
GTC	KER	214 - 46
SGAI	STC	
2N6304	Δ♦MOTA	152 - 18
CRI	GTC	
SCA	SSS	

TYPE No.	MFRS	Pg&Line
2N6305	Δ♦MOTA	151-110
GTC	SCA	
	SSS	
2N6306	Δ♦MOTA	319 - 7
AMC	GTC	270 - 92
♦INR	KER	
♦RCA	♦RCAB	
SCA	♦SPC	
♦STC	STI	
	TEC	
JAN2N6306	MOTA	272 - 86
	RCA	319 - 53
2N6307	Δ♦MOTA	319 - 8
AMC	♦INR	270 - 93
KER	♦RCA	
♦RCAB	SCA	
♦SPC	♦STC	
STI	TEC	
2N6308	Δ♦MOTA	270 - 94
AMC	♦INR	319 - 9
KER	♦RCA	
♦RCAB	SCA	
♦SPC	♦STC	
STI	TEC	
JAN2N6308	MOTA	319 - 54
	RCA	272 - 87
2N6312	Δ♦MOTA	224 - 19
CRI	KER	
SSI	♦STC	
2N6313	Δ♦MOTA	224 - 20
KER	SSI	
	♦STC	
2N6314	Δ♦MOTA	224 - 21
KER	SSI	
	♦STC	
2N6315	Δ♦MOTA	265 - 55
AMC	KER	320 - 18
SSI	♦STC	
2N6316	Δ♦MOTA	320 - 19
AMC	KER	265 - 56
SSI	♦STC	
2N6317	Δ♦MOTA	225 - 13
AMC	KER	320 - 20
SSI	♦STC	
2N6318	Δ♦MOTA	320 - 21
AMC	CRI	225 - 14
KER	SSI	
	♦STC	
2N6322	Δ♦TII	283 - 87
AMC	KER	
SCA	SSI	
♦STC	TEC	
	TIIB	
2N6323	Δ♦TII	283 - 88
AMC	KER	
SCA	SSI	
♦STC	TEC	
	TIIB	
2N6324	Δ♦TII	283 - 89
AMC	KER	
SCA	SPC	
SSI	♦STC	
TEC	TIIB	
2N6325	Δ♦TII	283 - 90
AMC	KER	
SCA	SPC	
SSI	♦STC	
TEC	TIIB	
2N6326	Δ♦TII	278 - 11
AMC	CRI	
GTC	IDI	
KER	SOD	
SSI	♦STC	
TEC	TIIB	
2N6327	Δ♦TII	278 - 12
AMC	GTC	
IDI	KER	
SOD	SSI	
♦STC	TEC	
	TIIB	
2N6328	Δ♦TII	278 - 13
AMC	GTC	
IDI	KER	
PPC	SOD	
SSI	♦STC	
TEC	TIIB	
2N6329	Δ♦TII	227 - 27
AMC	KER	
♦PPC	SSI	
♦STC	TEC	
	TIIB	
2N6330	Δ♦TII	227 - 28
AMC	KER	
♦PPC	♦STC	
TEC	TIIB	
2N6331	Δ♦TII	227 - 29
AMC	KER	
♦PPC	♦STC	
TEC	TIIB	
2N6338	Δ♦MOTA	278 - 14
AMC	DIT	311 - 98
♦GSE	GTC	
INR	KER	
PPC	♦RCA	
SCA	SSI	
	♦STC	
JAN2N6338	none	318 - 60
		278 - 15
2N6339	Δ♦MOTA	278 - 16
AMC	DIT	311 - 99
♦GSE	GTC	
INR	KER	
PPC	♦RCA	

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TYPE No.	MFRS	Pg&Line
2N6339		
(cont.)	SCA	
SSI	♦STC	
2N6340	Δ♦MOTA	311-100
AMC	DIT	278 - 17
♦GSE	GTC	
INR	KER	
♦RCA	SCA	
SSI	♦STC	
2N6341	Δ♦MOTA	278 - 18
AMC	DIT	311-101
♦GSE	GTC	
INR	KER	
♦RCA	SCA	
SPE	SSI	
	♦STC	
JAN2N6341	none	318 - 61
		278 - 19
2N6350	ΔUNI	318 - 8
AMC	♦STC	331 - 62
JAN2N6350	UNI	331 - 63
		318 - 68
2N6351	ΔUNI	318 - 9
AMC	♦STC	331 - 53
JAN2N6351	UNI	331 - 54
		318 - 69
2N6352	ΔUNI	318 - 10
AMC	♦STC	332 - 47
JAN2N6352	UNI	332 - 48
		318 - 70
2N6353	ΔUNI	318 - 11
AMC	♦STC	332 - 44
JAN2N6353	UNI	332 - 45
		318 - 71
2N6354	Δ♦RCA	312 - 53
AMC	KER	271 - 94
RCAB	SCA	
SGAI	♦STC	
2N6355	CRI	337 - 67
KER	♦STC	
2N6356	KER	337 - 72
	♦STC	
2N6357	♦STC	337 - 68
2N6358	KER	337 - 73
PPC	♦STC	
2N6359	AMC	274 - 51
IDI	KER	
PPC	SOD	
SSI	STC	
2N6360	AMC	274 - 52
IDI	KER	
PPC	SOD	
SSI	STC	
2N6362	SOD	267 - 7
2N6365	GTC	112 - 52
	STI	
JAN2N6365	none	112 - 53
2N6365A	GTC	112 - 54
JAN2N6365A	none	112 - 55
2N6366	Δ♦MOTA	243 - 4
	GTC	
2N6367	Δ♦MOTA	248 - 58
	SPE	
2N6368	Δ♦MOTA	271 - 95
	SPE	
2N6369	Δ♦CTR	278 - 48
2N6370	Δ♦MOTA	248 - 59
	CRI	
2N6371	Δ♦RCA	270 - 29
AMC	KER	
PPC	RCAB	
SCA	♦SPC	
SSI	♦STC	
2N6372	Δ♦RCA	255 - 1
AMC	KER	
PPC	RCAB	
SSI	SST	
	♦STC	
2N6373	Δ♦RCA	255 - 2
AMC	KER	
PPC	RCAB	
SSI	SST	
	♦STC	
2N6374	Δ♦RCA	255 - 3
AMC	KER	
PPC	RCAB	
SSI	SST	
	♦STC	
2N6375	ΔNSC	289 - 55
CRI	IDI	176 - 22
2N6376	ΔNSC	289 - 56
IDI	MEHK	239 - 65
2N6377	Δ♦MOTA	227 - 53
AMC	KER	313 - 22
PPC	STC	
2N6378	Δ♦MOTA	313 - 23
AMC	KER	227 - 54
PPC	STC	
JAN2N6378	none	227 - 55
		317 - 30
2N6379	Δ♦MOTA	313 - 24
AMC	KER	227 - 56
PPC	STC	
JAN2N6379	none	227 - 57
		317 - 31
2N6380	Δ♦MOTA	313 - 25
AMC	KER	227 - 58
PPC	STC	
2N6381	Δ♦MOTA	227 - 59
AMC	CRI	313 - 26
KER	PPC	
	STC	
2N6382	Δ♦MOTA	313 - 27

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TYPE No.	MFRS	Pg&Line
2N6382		
(cont.)	AMC	227 - 60
KER	PPC	
	STC	
2N6383	Δ♦RCA	334 - 93
AMC	GTC	
INR	KER	
♦PMN	♦PPC	
RCAB	STC	
JAN2N6383	none	335 - 9
	♦TCY	324 - 52
2N6384	Δ♦RCA	334 - 94
AMC	GTC	
INR	KER	
♦PMN	♦PPC	
RCAB	STC	
JAN2N6384	none	335 - 10
		324 - 53
2N6385	Δ♦RCA	334 - 95
AMC	GTC	
INR	KER	
♦PMN	♦PPC	
RCAB	STC	
JAN2N6385	none	335 - 11
		324 - 54
2N6386	Δ♦RCA	334 - 16
GTC	IDI	
♦MOTA	NSC	
♦PPC	RCAB	
	SGAI	
2N6387	Δ♦RCA	334 - 17
CRI	GTC	
IDI	♦MOTA	
♦PPC	RCAB	
	SGAI	
2N6388	Δ♦RCA	334 - 18
GTC	IDI	
♦MOTA	♦PPC	
RCAB	SGAI	
SPE	SST	
2N6389	Δ♦RCA	151 - 71
♦PPC	SCA	
2N6390	♦PPC	245 - 34
2N6391	♦PPC	249 - 61
2N6406	Δ♦MOTA	218-108
	GTC	
2N6407	Δ♦MOTA	218-109
	GTC	
2N6408	Δ♦MOTA	247 - 57
	GTC	
2N6409	Δ♦MOTA	247 - 58
CRI	GTC	
2N6410	Δ♦MOTA	248 - 76
	GTC	
2N6411	Δ♦MOTA	219 - 38
	GTC	
2N6412	Δ♦MOTA	248 - 77
	GTC	
2N6413	Δ♦MOTA	248 - 78
	GTC	
2N6414	Δ♦MOTA	219 - 39
	GTC	
2N6415	Δ♦MOTA	219 - 40
CRI	GTC	
2N6416	Δ♦MOTA	248 - 79
	GTC	
2N6417	Δ♦MOTA	248 - 80
	GTC	
2N6418	Δ♦MOTA	219 - 41
	GTC	
2N6419	Δ♦MOTA	219 - 42
CRI	GTC	
2N6420	Δ♦MOTA	220-100
KER	STC	
2N6421	Δ♦MOTA	220-101
		325 - 15
2N6422	Δ♦MOTA	325 - 16
		220-102
2N6423	Δ♦MOTA	220-103
		316 - 56
2N6424	♦MOTA	219 - 67
2N6425	Δ♦MOTA	219 - 68
	CRI	
2N6426	Δ♦MOTA	330 - 75
2N6427	Δ♦MOTA	330 - 73
2N6428	ΔMOTA	179 - 57
2N6428A	ΔMOTA	179 - 58
2N6429	ΔMOTA	179 - 59
2N6429A	ΔMOTA	179 - 60
2N6436	Δ♦MOTA	227 - 30
AMC	KER	311-102
	STC	
2N6437	Δ♦MOTA	311-103
AMC	KER	227 - 31
	STC	
JAN2N6437	none	227 - 32
		318 - 62
2N6438	Δ♦MOTA	311-104
AMC	CRI	227 - 33
INL	KER	
	STC	
JAN2N6438	none	227 - 34
		318 - 63
2N6439	ΔCTR	271 - 96
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2N6441	Δ♦MOTA	175 - 83
	STI	341 - 60
2N6442	Δ♦MOTA	341 - 61
	STI	175 - 84
2N6443	Δ♦MOTA	175 - 85
	STI	341 - 62
2N6444	Δ♦MOTA	341 - 63
	STI	175 - 86

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2N6445	Δ♦MOTA	175 - 87
	STI	341 - 64
2N6446	Δ♦MOTA	341 - 65
CRI	STI	175 - 88
2N6447	Δ♦MOTA	175 - 89
	STI	341 - 66
2N6448	Δ♦MOTA	341 - 67
	STI	175 - 90
2N6449	ΔTII	201 - 31
	♦TCY	TIIB
2N6450	ΔTII	201 - 32
	♦TCY	TIIB
2N6451	Δ♦TII	198 - 81
2N6452	Δ♦TII	198 - 82
	CRI	
2N6453	Δ♦TII	198 - 83
2N6454	Δ♦TII	198 - 84
2N6455	ΔTRW	260 - 52
	KER	
2N6456	ΔTRW	262-100
	KER	
2N6457	ΔTRW	271 - 97
2N6458	ΔTRW	262-101
2N6459	ΔTRW	270 - 67
	CRI	
2N6460	ΔTRW	271 - 98
2N6461	Δ♦TII	244 - 15
SCA	SSI	
2N6462	Δ♦TII	244 - 16
SCA	SSI	
2N6463	Δ♦TII	244 - 17
SCA	SSI	
2N6464	Δ♦TII	244 - 18
SCA	SPE	
	SSI	
2N6465	Δ♦RCA	255 - 8
AMC	KER	
	STC	
2N6466	Δ♦RCA	255 - 9
AMC	CRI	
KER	STC	
2N6467	Δ♦RCA	221 - 77
AMC	KER	
	♦PPC	
2N6468	Δ♦RCA	221 - 78
AMC	KER	
♦PPC	RCAB	
	SST	
2N6469	Δ♦RCA	226 - 22
AMC	INR	
KER	♦PPC	
RCAB	STC	
2N6470	Δ♦RCA	271 - 47
AMC	INR	
KER	RCAB	
SCA	STC	
2N6471	Δ♦RCA	271 - 48
AMC	INR	
KER	RCAB	
SCA	STC	
2N6472	Δ♦RCA	271 - 49
AMC	CRI	
INR	KER	
RCAB	SCA	
	STC	
2N6473	Δ♦RCA	258 - 44
AMC	GTC	
	RCAB	
2N6474	Δ♦RCA	258 - 45
AMC	GTC	
RCAB	SST	
2N6475	Δ♦RCA	223 - 10
GTC	RCAB	
2N6476	Δ♦RCA	223 - 11
GTC	RCAB	
2N6477	Δ♦RCA	261 - 47
PPC	RCAB	
2N6478	Δ♦RCA	261 - 48
PPC	RCAB	
2N6479	Δ♦RCA	264 - 10
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RCAB	SCA	264 - 11
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RCAB	SCA	314 - 88
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2N6484	ΔINL	341 - 69
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	NSC	
2N6486	Δ♦RCA	266 - 55
GTC	♦MOTA	
NSC	RCAB	
2N6487	Δ♦RCA	266 - 56
GTC	♦MOTA	
NSC	RCAB	
2N6488	Δ♦RCA	266 - 57
GTC	♦MOTA	
NSC	RCAB	
2N6489	Δ♦RCA	225 - 60
GTC	♦MOTA	
NSC	RCAB	
2N6490	Δ♦RCA	225 - 61
CRI	GTC	
♦MOTA	NSC	
	RCAB	
2N6491	Δ♦RCA	225 - 62
GTC	♦MOTA	
NSC	RCAB	

Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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2SA671	ETC	220-106
♦HITJ	SST	
2SA671K	♦HITJ	220-107
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2SA673A	♦HITJ	133- 88
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2SA706	SONY	142- 55
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	♦SAKJ	
2SA745A	♦SAKJ	225-108
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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2SC1075	ETC	249- 74
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2SC1090	♦NECJ	350- 75
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2SC1170	SST	228- 33
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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154-14SPC	SPC	279 - 71
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		324 - 93
154-18	STI	279 - 74
	♦WESY	
154-18SPC	SPC	279 - 75
		324 - 94
154-20	STI	279 - 76
	♦WESY	
154-20SPC	SPC	279 - 77
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154-22SPC	SPC	279 - 79
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1763-0620	KER	315 - 21
SSI	STC	273 - 60
1763-0630	KER	273 - 61
SSI	STC	317 - 46
1763-0810	KER	311 - 55
SSI	STC	273 - 62
1763-0820	KER	273 - 63
SSI	STC	315 - 22
1763-0830	KER	317 - 47
SSI	STC	273 - 64
1763-1010	KER	273 - 65
SSI	STC	311 - 56
1763-1020	KER	315 - 23
SSI	STC	273 - 66
1763-1030	KER	273 - 67
SSI	STC	317 - 48
1763-1210	KER	311 - 57
SSI	STC	273 - 68
1763-1220	KER	273 - 69
SSI	STC	315 - 24
1763-1230	KER	317 - 49
SSI	STC	273 - 70
1763-1410	KER	273 - 71
SSI	STC	311 - 58
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1763-1420	KER	315 - 25
SSI	STC	273 - 72
1763-1430	KER	273 - 73
SSI	STC	317 - 50
1763-1610	KER	311 - 59
SSI	STC	273 - 74
1763-1620	KER	273 - 75
SSI	STC	315 - 26
1763-1630	KER	273 - 76
	SSI	
1763-1810	KER	273 - 77
SSI	STC	311 - 60
1763-1820	KER	315 - 27
	SSI	273 - 78
1763-1830	KER	273 - 79
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1768-0420	SSI	230-103
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SSI	STC	311 - 61
1768-0620	KER	315 - 28
SSI	STC	275 - 79
1768-0630	KER	275 - 80
SSI	STC	317 - 51
1768-0810	KER	311 - 62
SSI	STC	275 - 81
1768-0820	KER	275 - 82
SSI	STC	315 - 29
1768-0830	KER	317 - 52
SSI	STC	275 - 83
1768-1010	KER	275 - 84
SSI	STC	311 - 63
1768-1020	KER	315 - 30
SSI	STC	275 - 85
1768-1030	KER	275 - 86
SSI	STC	317 - 53
1768-1210	KER	311 - 64
SSI	STC	275 - 87
1768-1220	KER	275 - 88
SSI	STC	315 - 31
1768-1230	KER	317 - 54
SSI	STC	275 - 89
1768-1410	KER	275 - 90
SSI	STC	311 - 65
1768-1420	KER	315 - 32
SSI	STC	275 - 91
1768-1430	KER	275 - 92
SSI	STC	317 - 55
1768-1610	KER	311 - 66
SSI	STC	275 - 93
1768-1620	KER	275 - 94
SSI	STC	315 - 33
1768-1630	KER	275 - 95
	SSI	
1768-1810	KER	275 - 96
SSI	STC	311 - 67
1768-1820	KER	315 - 34
	SSI	275 - 97
1768-1830	KER	275 - 98
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1776-0460	♦SSI	319 - 32
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1776-0640	KER	281 - 52
♦SSI	STC	316 - 81
1776-0660	KER	319 - 33
♦SSI	STC	281 - 53
1776-0840	KER	281 - 54
♦SSI	STC	316 - 82
1776-0860	KER	319 - 34
♦SSI	STC	281 - 55
1776-1040	KER	281 - 56
♦SSI	STC	316 - 83
1776-1060	KER	319 - 35
♦SSI	STC	281 - 57
1776-1240	KER	281 - 58
♦SSI	STC	316 - 84
1776-1260	KER	319 - 36
♦SSI	STC	281 - 59
1776-1440	KER	281 - 60
♦SSI	STC	316 - 85
1776-1460	KER	319 - 37
♦SSI	STC	281 - 61
1776-1640	KER	281 - 62
♦SSI	STC	316 - 86
1776-1660	KER	319 - 38
SSI	STC	281 - 63
1776-1840	KER	281 - 64
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1814-2002	♦SSI	256 - 4
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1814-2502	♦SSI	256 - 10
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1814-2505	♦SSI	317 - 58
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1814-2705	♦SSI	256 - 14
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1814-3201	♦SSI	256 - 18
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1814-3205	♦SSI	256 - 20
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1814-3502	♦SSI	256 - 22
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1843-2010	KER	273 - 81
♦SSI	STC	316-110
1843-2020	KER	317 - 1
♦SSI	STC	273 - 82
1843-2205	KER	273 - 83
♦SSI	STC	317 - 2
1843-2210	KER	317 - 3
♦SSI	STC	273 - 84
1843-2220	KER	273 - 85
♦SSI	STC	317 - 4
1843-2505	KER	317 - 5
♦SSI	STC	273 - 86
1843-2510	KER	273 - 87
♦SSI	STC	317 - 6
1843-2520	KER	317 - 7
♦SSI	STC	273 - 88
1843-2705	KER	273 - 89
♦SSI	STC	317 - 8
1843-2710	KER	317 - 9
♦SSI	STC	273 - 90
1843-2720	KER	273 - 91
♦SSI	STC	317 - 10
1843-3005	KER	317 - 11
♦SSI	STC	273 - 92
1843-3010	KER	273 - 93
♦SSI	STC	317 - 12
1843-3020	KER	317 - 13
♦SSI	STC	273 - 94
1843-3205	KER	273 - 95
♦SSI	STC	317 - 14
1843-3210	KER	317 - 15
♦SSI	STC	273 - 96
1843-3220	KER	273 - 97
♦SSI	STC	317 - 16
1843-3505	KER	317 - 17
♦SSI	STC	273 - 98
1843-3510	KER	273 - 99
♦SSI	STC	317 - 18
1843-3520	KER	317 - 19
♦SSI	STC	273-100
1843-3705	KER	273-101
♦SSI	STC	317 - 20
1843-3710	KER	317 - 21
♦SSI	STC	273-102
1843-3720	KER	273-103
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2003	♦CTR	351 - 79
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2849-3	UNI	306 - 97
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	♦UNI	304 - 50
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	♦UNI	257-103
2850-3	♦UNI	304 - 52
		245 - 41
2851-1	KER	245 - 42
	♦UNI	304 - 53
2851-2	KER	304 - 54
	♦UNI	257-104
2851-3	♦UNI	304 - 55
		245 - 43
2852-1	KER	245 - 44
	♦UNI	304 - 26
2852-2	KER	304 - 27
	♦UNI	257-105
2852-3	♦UNI	304 - 28
		245 - 45
2853-1	KER	245 - 46
	♦UNI	304 - 56
2853-2	KER	304 - 57
	♦UNI	257-106
2853-3	♦UNI	304 - 58
		245 - 47
2854-1	KER	245 - 48
	♦UNI	304 - 72
2854-2	KER	304 - 73
	♦UNI	257-107
2854-3	♦UNI	304 - 74
		245 - 49
2855-1	KER	245 - 50
	♦UNI	304 - 59
2855-2	KER	304 - 60
	♦UNI	257-108
2855-3	♦UNI	304 - 61
		245 - 51
2856-1	KER	245 - 52
	♦UNI	304 - 29
2856-2	KER	304 - 30
	♦UNI	257-109
2856-3	♦UNI	304 - 31
		245 - 53
3000	CTR	234 - 67
3001	CTR	238 - 71
3003	CTR	243 - 70
3005	CTR	248 - 98
5552-4	♦UNI	232 - 79
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6232-4	♦UNI	310 - 9
		250 - 81
40004	STI	108-106
40005	STI	109 - 12
40006	STI	109 - 18
40022	GPD	205 - 53
	SPE	STI
40050	GPD	205 - 54
	STI	
40051	GPD	205 - 55
	SPE	STI
40080	GTC	172 - 1
	IDI	♦RCA
	SCA	SPE
		STI
40081	GTC	233 - 27
	IDI	♦RCA
	SCA	SPE
		STI
40082	♦RCA	237 - 42
	SCA	STI
40084	GTC	173 - 24
	IDI	♦RCA
	SCA	SSI
		STI
40217	STI	160-110
		301 - 50
40218	STI	297 - 22
		159 - 2
40219	STI	167 - 62
		293 - 51
40220	STI	296 - 33
		160 - 83
40221	STI	167 - 63
		298 - 2
40222	STI	297 - 23
		159 - 3
40231	GTC	172 - 73
	IDI	SCA
		STI
40232	GTC	172 - 74
	IDI	SCA
		STI
40233	GTC	172 - 75
	IDI	SCA
	SPE	STI
40234	GTC	169 - 13
	IDI	SCA
		STI
40235	GTC	147 - 63
	IDI	NSC
	SCA	SPE
40236	GTC	147 - 64
	IDI	NSC
		SCA
40237	GTC	147 - 65
	IDI	NSC
		SCA
40238	GTC	147 - 42

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40239	GTC	147 - 43
	IDI	NSC
		SCA
40240	GTC	147 - 44
	IDI	NSC
		SCA
40242	GTC	147 - 59
	IDI	NSC
		SCA
40243	GTC	147 - 56
	IDI	NSC
	SCA	SPE
40244	GTC	147 - 45
	IDI	NSC
	SCA	SPE
40245	GTC	147 - 46
	IDI	NSC
	SCA	SPE
40246	GTC	147 - 47
	IDI	NSC
		SCA
40250	AMC	251-102
	GTC	KER
	♦PPC	♦RCA
	RCAB	SPE
	SSI	STI
40250V1	♦RCA	238 - 96
40251	AMC	268 - 87
	BELI	CEN
	GTC	IDI
	KER	♦PPC
	♦RCA	SCA
	SPC	SPE
	♦SSI	STC
		STI
40254	GPD	205 - 56
	SPE	STI
40255	STI	244 - 41
40256	STI	244 - 42
40261	STI	107 - 8
40262	STI	106-109
40263	STI	108 - 86
40264	STI	241 - 49
40268	STI	108 - 42
40269	STI	111 - 34
40279	KER	244 - 43
	♦RCA	SSI
40280	GTC	239 - 89
	IDI	KER
	♦RCA	SCA
		STI
40281	KER	244 - 44
	♦RCA	SSI
40282	KER	249 - 87
	♦RCA	SSI
40283	SCA	292 - 90
	STI	169 - 80
40290	KER	239 - 90
	♦RCA	SPE
	SSI	STI
40291	KER	244 - 45
	♦RCA	SSI
40292	KER	249 - 88
	♦RCA	SSI
40294	♦RCA	151 - 74
	SSI	
40295	STI	152 - 4
40296	STI	152 - 35
40305	KER	239 - 91
	♦RCA	SSI
		STI
40306	KER	244 - 46
	♦RCA	SSI
40307	KER	249 - 36
	♦RCA	SSI
40309	AMC	237 - 43
	GTC	IDI
	KER	RCAB
	SCA	SSI
40309L	STI	237 - 44
40309S	STI	237 - 45
40310	AMC	252 - 45
	GTC	IDI
	KER	♦RCA
	RCAB	SPE
	SSI	STI
40311	AMC	237 - 46
	GTC	IDI
	KER	♦RCA
	RCAB	SCA
	SSI	STI
40311L	KER	237 - 47
	STI	
40311S	KER	237 - 48
	STI	
40312	AMC	252 - 46
	GTC	IDI
	KER	♦PPC
	♦RCA	RCAB
	SPE	SSI
		STI
40313	KER	253 - 73
	♦PPC	♦RCA
	RCAB	SCA
	SPE	♦STC
		STI
40314	AMC	237 - 49
	GTC	IDI
	KER	NSC

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40314		
(cont.)	♦RCA	
RCAB	SCA	
SPE	SSI	
	STI	
40314L	KER	237 - 50
	STI	
40314S	KER	237 - 51
	STI	
40315	AMC	237 - 52
GTC	IDI	
KER	RCAB	
SCA	SSI	
	STI	
40315L	STI	237 - 53
40315S	STI	237 - 54
40316	AMC	252 - 47
KER	♦PPC	
♦RCA	RCAB	
SPE	SSI	
	STI	
40317	AMC	237 - 55
♦RCA	RCAB	
SCA	SSI	
	STI	
40317L	STI	237 - 56
40317S	STI	237 - 57
40318	KER	253 - 74
♦PPC	♦RCA	
RCAB	♦STC	
	AMC	216 - 4
40319	GTC	IDI
	KER	NSC
	♦RCA	RCAB
	SCA	SPE
	SSI	STI
40319L	KER	216 - 5
	STI	
40319S	KER	216 - 6
	STI	
40320	AMC	237 - 58
GTC	IDI	
RCAB	SCA	
SSI	STI	
40320L	STI	237 - 59
40320S	STI	237 - 60
40321	GTC	238 - 97
IDI	NSC	
♦RCA	RCAB	
SCA	SPE	
SSI	♦STC	
	STI	
40321L	STI	238 - 98
40321S	STI	238 - 99
40322	KER	253 - 75
♦PPC	RCAB	
SPE	♦STC	
	STI	
40323	GTC	237 - 61
IDI	♦RCA	
RCAB	SCA	
SSI	STI	
40323L	STI	237 - 62
40323S	STI	237 - 63
40324	AMC	252 - 48
GTC	IDI	
♦PPC	♦RCA	
RCAB	SSI	
	STI	
40325	AMC	268 - 88
CEN	GTC	
IDI	KER	
♦PPC	♦RCA	
RCAB	SCA	
SPC	SSI	
STC	STI	
40326	AMC	238-100
GTC	IDI	
RCAB	SCA	
SSI	STI	
40326L	STI	238-101
40326S	STI	238-102
40327	GTC	238-103
IDI	♦RCA	
RCAB	SCA	
SPE	SSI	
♦STC	STI	
40327L	STI	238-104
40327S	STI	238-105
40328	KER	253 - 76
♦PPC	RCAB	
SPE	♦STC	
	STI	
40329	NJS	109 - 54
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40340	KER	262 - 2
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40341	KER	262 - 3
♦RCA	SSI	
40346	GTC	244 - 47
IDI	♦RCA	
RCAB	SCA	
SPE	SSI	
♦STC	STI	
40346L	STI	244 - 48
40346S	STI	244 - 49
40346V1	♦RCA	235 - 52
	STI	
40346V2	♦RCA	244 - 50
SSI	STI	
40347	AMC	241 - 50
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A5T3505	♦TII	295 - 71
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A5T3565	♦TII	179 - 18
A5T3571	♦TII	175 - 56
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A5T3638	♦TII	139 - 49
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A5T3638A	♦TII	302 - 21
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A5T3644	NTR	140 - 37
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A5T3645	NTR	295 - 73
♦TII	TIIB	140 - 38
A5T3707	♦TII	166 - 8
A5T3708	♦TII	166 - 9
A5T3709	♦TII	166 - 10
A5T3710	♦TII	166 - 11
A5T3711	♦TII	166 - 12
A5T3798	♦TII	136 - 56
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A5T3821	♦TII	194 - 84
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A5T3823	♦TII	194 - 86
A5T3824	♦TII	194 - 87
A5T3903	NTR	167 - 15
♦TII	TIIB	295-106
A5T3904	NTR	296 - 18
♦TII	TIIB	167 - 64
A5T3905	NTR	132 - 93
♦TII	TIIB	295 - 74
A5T3906	NTR	295-107
♦TII	TIIB	133 - 16
A5T4026	♦TII	139 - 50
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A5T4027	TII	305 - 21
		139 - 51
A5T4028	♦TII	139 - 85
		305 - 93
A5T4029	♦TII	305 - 94
		139 - 86
A5T4058	♦TII	132 - 3
A5T4059	♦TII	132 - 4
A5T4060	♦TII	132 - 5
A5T4061	♦TII	132 - 6
A5T4062	♦TII	132 - 7
A5T4123	NTR	162 - 73
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A5T4124	NTR	288 - 79
♦TII	TIIB	162 - 93
A5T4125	NTR	130 - 7
♦TII	TIIB	290 - 61
A5T4126	♦TII	290 - 66
	TIIB	130 - 16
A5T4248	♦TII	139 - 37
A5T4249	♦TII	139 - 38
A5T4250	♦TII	139 - 42
A5T4260	♦TII	137 - 98
A5T4261	♦TII	137-100
A5T4402	NTR	139 - 87
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A5T4403	NTR	292 - 32
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A5T4409	NTR	179 - 40
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A5T4410	NTR	179 - 41
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A5T5210	TII	179 - 11
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A5T5220	NTR	179 - 61
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A5T5221	NTR	139 - 52
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A5T5226	NTR	139 - 43
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A5T5227	TII	139 - 53
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A5T5462	♦TII	189 - 88
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A5T6117	♦TII	345 - 54
A5T6118	♦TII	345 - 55
A5T6449	TII	201 - 11
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A5T6450	TII	201 - 12
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A5T6461	TII	182 - 12
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A5T6462	TII	182 - 13
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A5T6538	♦TII	179 - 95
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A5T6539	♦TII	179 - 96
	TIIB	
A5T6540	♦TII	179 - 97
	TIIB	
A5T6541	♦TII	179 - 98
	TIIB	
A6T5222	TII	180 - 88
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A8T3705	♦TII	179 - 65
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A158C	♦APX	160 - 19
A159B	♦APX	160 - 20
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AC121V	SIEG	116 - 72
AC121VI	SIEG	116 - 73

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♦RTCF	♦VALG	
AC126	BELI	110 - 31
PHIC	♦PHIN	
♦RTCF	♦VALG	
AC127	BELI	120 - 41
♦MULB	♦NTLB	
♦PHIN	♦RTCF	
	♦VALG	
AC127-01	BELI	120 - 42
	♦PHIN	
AC127/AC128	BELI	338 - 62
PHIC	♦PHIN	
AC127/AC132	BELI	338 - 63
PHIC	♦PHIN	
AC128	BELI	112-109
♦MULB	♦NTLB	
PHIC	♦PHIN	
♦RTCF	♦VALG	
AC128-01	BELI	202 - 49
	♦PHIN	
AC128K	♦VALG	202 - 50
AC130	PHIN	338 - 27
AC132	BELI	117 - 35
PHIC	♦PHIN	
♦RTCF	♦VALG	
AC132-01	BELI	117 - 43
	♦PHIN	
AC151	SIEG	110 - 89
AC151IV	SIEG	116 - 75
AC151rIV	SIEG	116 - 76
AC151rV	SIEG	116 - 77
AC151rVI	SIEG	116 - 78
AC151R	SIEG	110 - 90
AC151V	SIEG	116 - 79
AC151VI	SIEG	116 - 80
AC151VII	SIEG	116 - 81
AC152	SIEG	117 - 66
AC152IV	SIEG	116 - 82
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AC153	SIEG	117 - 76
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AC153K	SIEG	117 - 74
AC153K-AC176K	SIEG	338 - 65
AC153KV	SIEG	116 - 85
AC153KVI	SIEG	116 - 86
AC153KVII	SIEG	116 - 87
AC153V	SIEG	116 - 88
AC153VI	SIEG	116 - 89
AC153VII	SIEG	116 - 90
AC162	SIEG	117 - 68
AC163	SIEG	117 - 69
AC172	BELI	120 - 15
	♦PHIN	
AC176	♦NTLB	120 - 54
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AC176K	SIEG	202 - 51
AC180	MISI	116 - 56
	THCF	
AC180K	MISI	202 - 56
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AC181	MISI	120 - 31
	THCF	
AC181K	MISI	212 - 2
	THCF	
AC182	MISI	114 - 85
	THCF	
AC183	MISI	120 - 16
	THCF	
AC184	MISI	115 - 52
	THCF	
AC185	MISI	120 - 24
	THCF	
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GTC	♦MULB	
PHIC	♦PHIN	
♦RTCF	♦VALG	
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♦MULB	PHIC	
	♦PHIN	
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♦MULB	PHIC	338 - 66
	♦PHIN	
AC187/AC188	♦BELI	338 - 67
♦MULB	PHIC	
	♦PHIN	
AC187K	SIEG	120 - 56
	♦VALG	
AC187K-AC188K	SIEG	338 - 68
AC188	♦BELI	202 - 54
GTC	♦MULB	
PHIC	♦PHIN	
♦RTCF	♦VALG	
AC188/01	♦BELI	202 - 52
♦MULB	♦PHIN	
AC188K	SIEG	117 - 59
	♦VALG	
ACY17	♦NTLB	116 - 24
		288 - 11
ACY18	♦NTLB	116 - 25
		328 - 44
ACY19	♦NTLB	328 - 12
		116 - 30
ACY20	♦NTLB	116 - 26
ACY21	♦NTLB	116 - 31
ACY22	♦NTLB	116 - 27
		288 - 12
ACY23	SIEG	110 - 91
ACY23V	SIEG	116 - 91
ACY23VI	SIEG	116 - 92
ACY27	♦NTLB	113 - 90

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ACY28	♦NTLB	114 - 35
ACY29	♦NTLB	114 - 40
ACY30	♦NTLB	114 - 53
ACY31	♦NTLB	113-100
ACY32	SIEG	110 - 92
ACY32V	SIEG	116 - 93
ACY32VI	SIEG	116 - 94
ACY33	SIEG	117 - 77
ACY33VI	SIEG	116 - 95
ACY33VII	SIEG	116 - 96
ACY33VIII	SIEG	116 - 97
ACY34	♦NTLB	113 - 84
ACY35	♦NTLB	113 - 86
ACY36	♦NTLB	113 - 85
ACY38	MISI	112 - 14
	THCF	
ACY39	♦NTLB	116 - 28
		328 - 11
ACY40	♦NTLB	328 - 43
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ACY41	♦NTLB	116 - 22
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LTE	SIEG	
AD131	♦GPD	205 - 61
LTE	SIEG	
AD132	♦GPD	205 - 62
LTE	SIEG	
AD133	♦GPD	205 - 63
LTE	SIEG	
AD136	♦GPD	203 - 18
	SIEG	
AD138	GPD	206 - 12
AD139	GPD	211 - 91
PHIC	PHIN	
AD140	♦GPD	205 - 64
♦NTLB	PHIN	
AD142	♦GPD	205 - 65
AD143	♦GPD	205 - 66
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AD148	♦GPD	203 - 28
LTE	SIEG	
AD149	♦BELI	205 - 15
♦GPD	GTC	
LTE	♦MULB	
♦NTLB	♦PHIN	
♦RTCF	SIEG	
AD150	♦GPD	205 - 67
LTE	SIEG	
AD152	GPD	202 - 4
AD155	GPD	202 - 5
AD161	GPD	212 - 18
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♦PHIN	♦RTCF	
SIEG	♦VALG	
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	SIEG	
AD162	GPD	203 - 26
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♦PHIN	RTCF	
SIEG	♦VALG	
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AD262	GPD	203 - 29
AD263	GPD	203 - 30
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ADY11	♦GPD	203 - 20
ADY12	♦GPD	203 - 21
ADY13	♦GPD	203 - 22
ADY20	♦GPD	203 - 23
ADY26	♦GPD	209 - 38
LTE	PHIN	329 - 38
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	SIEG	341 - 90
ADZ11	♦GPD	209 - 39
LTE	NASB	
ADZ12	♦GPD	209 - 40
LTE	NASB	
AF106	SIEG	105 - 69
	♦VALG	
AF109R	SIEG	105 - 20
AF114	BELI	107 - 11
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AF115	BELI	104-105
NTLB	PHIN	
AF116	BELI	104-106
NTLB	PHIN	
AF117	BELI	107 - 12
♦NTLB	PHIN	
AF118	♦PHIN	117 - 27
AF121	PHIN	105 - 23
AF124	♦NTLB	105-108
♦PHIN	♦RTCF	
AF125	♦NTLB	105-109
♦PHIN	♦RTCF	
AF126	♦NTLB	105-110
♦PHIN	♦RTCF	
AF127	♦NTLB	106 - 1
♦PHIN	♦RTCF	
AF139	CRI	105 - 82
GTC	IDI	
♦PHIN	SIEG	
AF187	MISI	111 - 54
	THCF	
AF188	MISI	111 - 99
	THCF	
AF200U	SIEG	115 - 30
AF201U	SIEG	115 - 31

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AF239	CRI	105 - 91
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♦PHIN	SIEG	
AF239S	♦PHIN	105 - 88
	SIEG	
AF240	♦PHIN	105 - 87
	SIEG	
AF267	♦PHIN	105 - 24
AF279	SIEG	105 - 92
AF279S	SIEG	105 - 95
AF280	♦SIEG	105 - 80
AF289	♦SIEG	105 - 96
AF290	♦SIEG	105 - 93
AF306	♦SIEG	105 - 71
	♦VALG	
AF339	SIEG	105 - 90
AF367	♦PHIN	105 - 94
♦RTCF	♦VALG	
AF369	♦PHIN	105 - 81
AF379	♦RTCF	108 - 54
SIEG	♦VALG	
AFY12	SIEG	105 - 70
AFY16	♦PHIN	108 - 58
	SIEG	
AFY18	SIEG	113 - 62
AFY18C	SIEG	117 - 48
AFY18D	SIEG	117 - 49
AFY18E	SIEG	117 - 50
AFY19	♦PHIN	117 - 61
AFY40	PHIN	109 - 84
AFY42	SIEG	112-110
AFZ12	PHIN	107 - 36
AL100	♦GPD	205 - 69
AL102	♦GPD	205 - 70
AL103	♦GPD	205 - 71
AL112	GPD	203 - 31
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AMPAC2023-16	♦MWS	351 - 90
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PHIC	♦PHIN	
♦RTCF	SIEG	
THCF	TIIF	
ASY27-RT	CEN	313 - 6
MISI	♦NTLB	112 - 4
PHIC	♦PHIN	
♦RTCF	SIEG	
THCF	TIIF	
ASY28-RT	CEN	119 - 95
♦NTLB	PHIC	314 - 7
♦PHIN	♦RTCF	
	TIIF	
ASY29-RT	CEN	311 - 23
♦NTLB	PHIC	119-102
♦PHIN	♦RTCF	
	TIIF	
ASY48	SIEG	117 - 64
ASY48IV	SIEG	116 - 67
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ASY48V	SIEG	325 - 40
		116 - 68
ASY48VI	SIEG	116 - 69
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ASY50	♦NTLB	113 - 91
ASY54N	♦NTLB	111 - 16
ASY55N	♦NTLB	111 - 77
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ASY57N	NTLB	111 - 26
ASY58N	NTLB	111 - 68
ASY59N	NTLB	111-106
ASY63N	NTLB	106 - 26
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ASY70IV	SIEG	116 - 98
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ASY70V	SIEG	325 - 43
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ASY70VI	SIEG	116-100
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ASY74-RT	PHIC	311 - 5
♦PHIN	♦RTCF	119 - 17
ASY75-RT	PHIC	119 - 18
♦PHIN	♦RTCF	308 - 65
ASY76-RT	♦PHIN	117 - 38
ASY77-RT	♦PHIN	117 - 39
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ASZ15	BELI	329 - 48
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ASZ16	♦GPD	205 - 73
♦PHIN	♦RTCF	329 - 51
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	♦RTCF	
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♦GPD	♦PHIN	329 - 50
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ASZ21	♦PHIN	109 - 20
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ASZ1016	♦GPD	205 - 18
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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BC178V	♦MISI	128 - 30
♦MOTA	NPC	
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BC178VI	♦ALGG	128 - 31
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BC179	♦BELI	128 - 32
CEN	ELMA	
IDI	MEHK	
MISI	♦MOTA	
NASB	NPC	
NSC	♦PHIN	
♦RTCF	SGAI	
♦SIEG	STR	
TADI	THCF	
TIIB	TIIF	
	♦VALG	
BC179A	♦ALGG	127 - 69
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IDI	MEHK	
♦MISI	♦NPC	
NSC	♦PHIN	
♦RTCF	STR	
TADI	♦THCF	
TIIB	TIIF	
	♦VALG	
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CEN	IDI	
MEHK	♦MISI	
♦MOTA	♦NPC	
NSC	♦PHIN	
♦RTCF	SIEG	
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♦THCF	TIIB	
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BC182A☑	♦SIEG	157-108
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BC182KB	CEN	149 - 59
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TYPE No.	MFRS	Pg&Line
BC183L		
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STR	♦TIIB	
	TIIC	
BC183LA	CEN	294 - 62
MEHK	NASB	158 - 11
NSC	STR	
	♦TIIB	
BC183LB	CEN	158 - 12
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BC184C	NSC	158 - 16
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IDI	MEHK	
	NSC	
BC184KB	CEN	149 - 65
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BC184KC	CEN	149 - 66
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	NSC	
BC184L	CEN	158 - 17
MEHK	NASB	294 - 68
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	TIIC	
BC184LB	CEN	294 - 69
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NSC	THCF	
BC204B	CEN	128 - 35
IDI	MEHK	
MISI	♦NPC	
NSC	THCF	
BC204V	MEHK	128 - 36
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	THCF	
BC204VI	CEN	128 - 37
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BC205	CEN	123 - 51
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MISI	NASB	
NPC	NSC	
	THCF	
BC205A	CEN	128 - 38
IDI	MEHK	
MISI	♦NPC	
NSC	THCF	
BC205B	CEN	128 - 39
IDI	MEHK	
MISI	♦NPC	
NSC	THCF	
BC205V	MEHK	128 - 40
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BC205VI	MEHK	128 - 41
MISI	♦NPC	
	THCF	
BC206	CEN	123 - 52
IDI	MEHK	
MISI	NASB	
NPC	NSC	
	THCF	
BC206A	MEHK	128 - 42
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MISI	♦NPC	
NSC	THCF	
BC207	CEN	149 - 92
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	THCF	

TYPE No.	MFRS	Pg&Line
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♦MISI	♦NPC	
NSC	♦THCF	
BC207B	CEN	149 - 94
IDI	MEHK	
♦MISI	♦NPC	
NSC	♦THCF	
BC208	CEN	149 - 95
IDI	MEHK	
MISI	NASB	
NPC	NSC	
	THCF	
BC208A	CEN	149 - 96
IDI	MEHK	
♦MISI	♦NPC	
NSC	♦THCF	
BC208B	CEN	149 - 97
IDI	MEHK	
♦MISI	♦NPC	
NSC	SST	
	♦THCF	
BC208C	CEN	149 - 98
IDI	MEHK	
♦MISI	♦NPC	
NSC	♦THCF	
BC209	CEN	149 - 99
IDI	MEHK	
MISI	NASB	
NPC	NSC	
SST	THCF	
BC209B	CEN	149-100
IDI	MEHK	
♦MISI	♦NPC	
NSC	♦THCF	
BC209C	CEN	149-101
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NSC	♦THCF	
BC211	MEHK	183 - 21
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BC211A	MEHK	185-107
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NSC	PIHS	128 - 45
♦SIEG	♦TIIB	
	TIID	
BC212B	ALGG	128 - 46
NSC	PIHS	300-106
♦SIEG	♦TIIB	
	TIID	
BC212K	CEN	300-107
MEHK	NSC	128 - 47
BC212KA	CEN	128 - 48
IDI	MEHK	300-108
	NSC	
BC212KB	CEN	300-109
IDI	MEHK	128 - 49
	NSC	
BC212L	CEN	128 - 50
MEHK	NASB	300-110
NSC	♦TIIB	
	TIIC	
BC212LA	CEN	301 - 1
MEHK	NASB	128 - 51
NSC	♦TIIB	
BC212LB	CEN	128 - 52
MEHK	NASB	301 - 2
NSC	♦TIIB	
BC213	MEHK	301 - 3
NASB	NSC	128 - 53
PIHS	♦TIIB	
TIIC	TIID	
BC213A	NSC	128 - 54
PIHS	♦TIIB	301 - 4
	TIID	
BC213B	NSC	301 - 5
PIHS	♦TIIB	128 - 55
	TIID	
BC213C	NSC	128 - 56
PIHS	♦TIIB	301 - 6
	TIID	
BC213K	CEN	301 - 7
IDI	NSC	128 - 57
BC213KA	CEN	128 - 58
IDI	MEHK	301 - 8
	NSC	
BC213KB	CEN	301 - 9
IDI	MEHK	128 - 59
	NSC	
BC213KC	CEN	128 - 60
IDI	MEHK	301 - 10
	NSC	
BC213L	MEHK	301 - 11
NASB	NSC	128 - 61
♦TIIB	TIIC	
BC213LA	CEN	128 - 62
MEHK	NASB	301 - 12
NSC	♦TIIB	
BC213LB	CEN	301 - 13
MEHK	NASB	128 - 63
NSC	♦TIIB	
BC213LC	CEN	128 - 64
MEHK	NASB	301 - 14
NSC	♦TIIB	
BC214	MEHK	301 - 15
cont next col		

TYPE No.	MFRS	Pg&Line
BC214		
(cont.)	NASB	128 - 65
NSC	PIHS	
♦TIIB	TIIC	
	TIID	
BC214A	PIHS	128 - 66
	TIID	301 - 16
BC214B	NSC	301 - 17
PIHS	♦TIIB	128 - 67
	TIID	
BC214C	NSC	128 - 68
PIHS	♦TIIB	301 - 18
	TIID	
BC214K	CEN	301 - 19
IDI	NSC	128 - 69
BC214KA	MEHK	128 - 70
BC214KB	CEN	128 - 71
IDI	MEHK	301 - 20
	NSC	
BC214KC	CEN	301 - 21
MEHK	NSC	128 - 72
BC214L	CEN	128 - 73
MEHK	NASB	301 - 22
NSC	♦TIIB	
	TIIC	
BC214LA	MEHK	301 - 23
		128 - 74
BC214LB	CEN	128 - 75
MEHK	NASB	301 - 24
NSC	♦TIIB	
BC214LC	CEN	301 - 25
MEHK	NASB	128 - 76
NSC	♦TIIB	
BC221	MEHK	127 - 70
BC223A	MEHK	166 - 13
	TIID	
BC223B	MEHK	166 - 14
	TIID	
BC224	TIID	124 - 19
BC225	MEHK	123 - 23
BC231A	MEHK	139 - 14
	TIID	
BC231B	MEHK	139 - 15
	TIID	
BC231M	TIIF	142 - 21
BC232A	MEHK	178-101
	TIID	
BC232B	MEHK	178-102
	TIID	
BC232M	TIIF	185-108
BC236	MISI	156 - 63
♦NPC	THCF	
BC237	♦ITTB	164 - 53
	♦MOTA	
BC237△	NASB	159 - 83
♦PIHS	♦SIEG	
	TIID	
BC237-5	♦MOTA	164 - 54
BC237-18	♦MOTA	164 - 55
BC237%	CEN	160 - 39
IDI	MEHK	
NSC	♦PHIN	
	♦VALG	
BC237A5	♦MOTA	164 - 56
BC237A18	♦MOTA	164 - 57
BC237A	♦ALGG	160 - 40
CEN	IDI	
INTG	ITTB	
MEHK	NSC	
♦PHIN	♦PIHS	
SIEG	SST	
	TIID	
BC237A☑	♦MOTA	164 - 58
BC237B5	♦MOTA	164 - 59
BC237B18	♦MOTA	164 - 60
BC237B	♦ALGG	160 - 41
CEN	IDI	
INTG	ITTB	
MEHK	NSC	
♦PHIN	♦PIHS	
SIEG	SST	
	TIID	
BC237B☑	♦MOTA	164 - 61
BC237C5	♦MOTA	164 - 62
BC237C18	♦MOTA	164 - 63
BC237C	♦MOTA	164 - 64
BC238	♦ITTB	164 - 69
♦MOTA	SST	
BC238△	NASB	159 - 84
♦PIHS	♦SIEG	
	TIID	
BC238-5	♦MOTA	164 - 70
BC238-18	♦MOTA	164 - 71
BC238%	CEN	160 - 42
IDI	MEHK	
NSC	♦PHIN	
	♦VALG	
BC238A5	♦MOTA	164 - 72
BC238A18	♦MOTA	164 - 73
BC238A	♦ALGG	160 - 43
CEN	IDI	
INTG	ITTB	
MEHK	NSC	
♦PHIN	♦PIHS	
SIEG	SST	
	TIID	
BC238A☑	♦MOTA	164 - 74
BC238B5	♦MOTA	164 - 75
BC238B18	♦MOTA	164 - 76
BC238B	♦ALGG	160 - 44
CEN	IDI	
INTG	ITTB	
MEHK	NSC	
cont next col		

TYPE No.	MFRS	Pg&Line
BC238B		
(cont.)	♦PHIN	
♦PIHS	SIEG	
SST	TIID	
BC238B☑	♦MOTA	164 - 77
BC238C5	♦MOTA	164 - 78
BC238C18	♦MOTA	164 - 79
BC238C	♦ALGG	160 - 45
CEN	IDI	
INTG	ITTB	
MEHK	NSC	
♦PHIN	♦PIHS	
SIEG	TIID	
BC238C☑	♦MOTA	164 - 80
BC239	♦ITTB	164-108
	♦MOTA	
BC239△	NASB	160 - 46
♦PIHS	♦SIEG	
	TIID	
BC239-5	♦MOTA	164-109
BC239-18	♦MOTA	164-110
BC239%	CEN	160 - 47
IDI	MEHK	
♦PHIN	♦VALG	
BC239A	MEHK	160 - 48
BC239B5	♦MOTA	165 - 1
BC239B18	♦MOTA	165 - 2
BC239B	♦ALGG	160 - 49
CEN	INTG	
ITTB	MEHK	
NSC	♦PHIN	
♦PIHS	SIEG	
SST	TIID	
BC239B☑	♦MOTA	165 - 3
BC239C5	♦MOTA	165 - 4
BC239C18	♦MOTA	165 - 5
BC239C	♦ALGG	160 - 50
CEN	IDI	
INTG	ITTB	
MEHK	NSC	
♦PHIN	♦PIHS	
SIEG	TIID	
BC239C☑	♦MOTA	165 - 6
BC250	♦ITTB	122 - 90
	MEHK	
BC250A	♦INTG	127-106
♦ITTB	MEHK	
BC250B	♦INTG	127-107
♦ITTB	MEHK	
BC250C	♦INTG	127-108
♦ITTB	MEHK	
BC251	ITTB	122 - 91
	MEHK	
BC251A	CEN	128 - 77
IDI	♦INTG	
ITTB	MEHK	
	NSC	
BC251B	CEN	128 - 78
IDI	♦INTG	
ITTB	MEHK	
	NSC	
BC251C	♦INTG	128 - 79
ITTB	MEHK	
BC252	ITTB	122 - 92
	MEHK	
BC252A	CEN	128 - 80
IDI	♦INTG	
ITTB	MEHK	
	NSC	
BC252B	CEN	128 - 81
IDI	♦INTG	
ITTB	MEHK	
	NSC	
BC252C	♦INTG	128 - 82
ITTB	MEHK	
BC253	ITTB	122 - 93
BC253A	CEN	128 - 83
IDI	♦INTG	
♦ITTB	MEHK	
	NSC	
BC253B	CEN	128 - 84
IDI	♦INTG	
ITTB	MEHK	
	NSC	
BC253C	♦INTG	128 - 85
ITTB	MEHK	
BC254	TIID	153 - 34
BC256A	♦INTG	128 - 86
ITTB	MEHK	
BC256B	♦INTG	128 - 87
ITTB	MEHK	
BC257	♦PIHS	127 - 31
	♦SIEG	
BC257A	MEHK	127 - 32
♦PIHS	SIEG	
BC257B	MEHK	127 - 33
	SIEG	
BC257VI	♦PIHS	127 - 34
BC258	♦PIHS	127 - 35
	♦SIEG	
BC258A	MEHK	127 - 36
♦PIHS	SIEG	
BC258B	MEHK	127 - 37
♦PIHS	SIEG	
BC258C	MEHK	127 - 38
	SIEG	
BC258VI	♦PIHS	127 - 39
BC259	♦PIHS	127 - 40
	♦SIEG	
BC259A	♦PIHS	127 - 41
BC259B	MEHK	127 - 42
♦PIHS	SIEG	
BC259C	MEHK	128 - 88
	SIEG	

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TYPE No.	MFRS	Pg&Line
BC430	TIIB	229 - 34
	TIID	
BC431	ALGG	173 - 25
BC432	ALGG	136 - 89
BC440	NASB	266 - 4
SGAI	TADI	
BC441	MEHK	266 - 5
NASB	SGAI	
	TADI	
BC445	♦MOTA	164 - 88
BC445-5	♦MOTA	164 - 89
BC445-18	♦MOTA	164 - 90
BC446	♦MOTA	131 - 36
BC446-5	♦MOTA	131 - 37
BC446-18	♦MOTA	131 - 38
BC447	♦MOTA	164 - 91
BC447-5	♦MOTA	164 - 92
BC447-18	♦MOTA	164 - 93
BC448	♦MOTA	131 - 39
BC448-5	♦MOTA	131 - 40
BC448-18	♦MOTA	131 - 41
BC449	♦MOTA	164 - 94
BC449-5	♦MOTA	164 - 95
BC449-18	♦MOTA	164 - 96
BC450	♦MOTA	131 - 42
BC450-5	♦MOTA	131 - 43
BC450-18	♦MOTA	131 - 44
BC451	TOSJ	160 - 51
BC452	TOSJ	160 - 52
BC453	TOSJ	160 - 53
BC454	TOSJ	160 - 54
BC455	TOSJ	160 - 55
BC456	TOSJ	160 - 56
BC460	NASB	225 - 49
SGAI	TADI	
BC461	MEHK	225 - 50
NASB	SGAI	
	TADI	
BC461-4	MEHK	142 - 35
BC461-5	MEHK	142 - 36
BC461-6	MEHK	142 - 37
BC477	SGAI	132 - 74
	TADI	
BC477A	SGAI	132 - 75
BC477VI	SGAI	132 - 76
BC478	MEHK	132 - 77
SGAI	TADI	
BC478A	SGAI	132 - 78
BC478B	SGAI	132 - 79
BC479	SGAI	132 - 80
	TADI	
BC479B	SGAI	132 - 81
BC485	♦MOTA	178-103
	NSC	
BC485-5	♦MOTA	178-104
BC485-18	♦MOTA	179 - 99
BC485A5	♦MOTA	179-100
BC485A18	♦MOTA	179-101
BC485A	♦MOTA	179-102
	NSC	
BC485B5	♦MOTA	179-103
BC485B18	♦MOTA	179-104
BC485B	♦MOTA	179-105
	NSC	
BC485L5	♦MOTA	179-106
BC485L18	♦MOTA	179-107
BC485L	♦MOTA	179-108
	NSC	
BC486	♦MOTA	139 - 90
BC486-5	♦MOTA	139 - 91
BC486-18	♦MOTA	139 - 92
BC486A5	♦MOTA	139 - 93
BC486A18	♦MOTA	139 - 94
BC486A	♦MOTA	139 - 95
BC486B5	♦MOTA	139 - 96
BC486B18	♦MOTA	139 - 97
BC486B	♦MOTA	139 - 98
BC486L5	♦MOTA	139 - 99
BC486L18	♦MOTA	139-100
BC486L	♦MOTA	139-101
BC487	♦MOTA	178-105
BC487-5	♦MOTA	178-106
BC487-18	♦MOTA	179-109
BC487A5	♦MOTA	179-110
BC487A18	♦MOTA	180 - 1
BC487A	♦MOTA	180 - 2
BC487B5	♦MOTA	180 - 3
BC487B18	♦MOTA	180 - 4
BC487B	♦MOTA	180 - 5
BC487L5	♦MOTA	180 - 6
BC487L18	♦MOTA	180 - 7
BC487L	♦MOTA	180 - 8
BC488	♦MOTA	139-102
BC488-5	♦MOTA	139-103
BC488-18	♦MOTA	139-104
BC488A5	♦MOTA	139-105
BC488A18	♦MOTA	139-106
BC488A	♦MOTA	139-107
BC488B5	♦MOTA	139-108
BC488B18	♦MOTA	139-109
BC488B	♦MOTA	139-110
BC488L5	♦MOTA	140 - 1
BC488L18	♦MOTA	140 - 2
BC488L	♦MOTA	140 - 3
BC489	♦MOTA	178-107
BC489-5	♦MOTA	178-108
BC489-18	♦MOTA	180 - 9
BC489A5	♦MOTA	180 - 10
BC489A18	♦MOTA	180 - 11
BC489A	♦MOTA	180 - 12
BC489B5	♦MOTA	180 - 13
BC489B18	♦MOTA	180 - 14
BC489B	♦MOTA	180 - 15
BC489L5	♦MOTA	180 - 16
BC489L18	♦MOTA	180 - 17
BC489L	♦MOTA	180 - 18
BC490	♦MOTA	140 - 4
BC490-5	♦MOTA	140 - 5
BC490-18	♦MOTA	140 - 6
BC490A5	♦MOTA	140 - 7
BC490A18	♦MOTA	140 - 8
BC490A	♦MOTA	140 - 9
BC490B5	♦MOTA	140 - 10
BC490B18	♦MOTA	140 - 11
BC490B	♦MOTA	140 - 12
BC490L5	♦MOTA	140 - 13
BC490L18	♦MOTA	140 - 14
BC490L	♦MOTA	140 - 15
BC512	♦TIID	128-106
BC512A	♦TIID	128-107
BC512B	♦TIID	128-108
BC513	♦TIID	128-109
BC513A	♦TIID	128-110
BC513B	♦TIID	129 - 1
BC513C	♦TIID	129 - 2
BC514	♦TIID	129 - 3
BC514A	♦TIID	129 - 4
BC514B	♦TIID	129 - 5
BC514C	♦TIID	129 - 6
BC516	MEHK	330 - 55
	TIID	
BC517	MEHK	330 - 56
	TIID	
BC546	♦ELMA	174 - 67
INTG	♦MULB	
♦PHIC	♦PHIN	
♦RTCF	TIID	
	♦VALG	
BC546A	♦ALGG	174 - 68
♦APX	♦ELMA	
INTG	♦ITTB	
♦MEHK	♦MULB	
♦PHIC	♦PHIN	
♦RTCF	SIEG	
TIID	♦VALG	
BC546AⓏ	♦NECJ	180 - 58
BC546B	♦ALGG	174 - 69
♦APX	♦ELMA	
INTG	♦ITTB	
♦MEHK	♦MULB	
♦PHIC	♦PHIN	
♦RTCF	SIEG	
TIID	♦VALG	
BC546BⓏ	♦NECJ	180 - 59
BC546VI	SIEG	174 - 70
BC547	♦ELMA	174 - 71
INTG	♦MEHK	
♦MULB	NASB	
NSC	♦PHIC	
♦PHIN	♦RTCF	
TIID	♦VALG	
BC547A	♦ALGG	174 - 72
♦APX	♦ELMA	
INTG	♦ITTB	
♦MEHK	♦MULB	
NSC	♦PHIC	
♦PHIN	♦RTCF	
SIEG	TIID	
BC547AⓏ	♦NECJ	180 - 60
BC547B	♦ALGG	174 - 73
♦APX	♦ELMA	
INTG	♦ITTB	
♦MEHK	♦MULB	
NSC	♦PHIC	
♦PHIN	♦RTCF	
SIEG	TIID	
BC547BⓏ	♦NECJ	180 - 61
BC547C	♦APX	174 - 74
♦ELMA	MEHK	
♦MULB	♦PHIC	
	♦PHIN	
	TIID	
BC547CⓏ	♦NECJ	180 - 62
BC547VI	SIEG	174 - 75
BC548	♦ELMA	174 - 76
INTG	♦MEHK	
♦MULB	NASB	
NSC	♦PHIC	
♦PHIN	♦RTCF	
TIID	♦VALG	
BC548A	♦ALGG	174 - 77
♦APX	♦ELMA	
INTG	♦ITTB	
♦MEHK	♦MULB	
NSC	♦PHIC	
♦PHIN	♦RTCF	
SIEG	TIID	
BC548AⓏ	♦NECJ	180 - 63
BC548B	♦ALGG	174 - 78
♦APX	♦ELMA	
INTG	♦ITTB	
♦MEHK	♦MULB	
NSC	♦PHIC	
♦PHIN	♦RTCF	
SIEG	TIID	
BC548BⓏ	♦NECJ	180 - 64
BC548C	♦ALGG	174 - 79
♦APX	♦ELMA	
INTG	♦ITTB	
♦MEHK	♦MULB	
NSC	♦PHIC	
♦PHIN	♦RTCF	
SIEG	TIID	
BC548CⓏ	♦NECJ	180 - 65
BC548VI	SIEG	174 - 80
BC549	♦ELMA	173 - 93
INTG	♦MEHK	
♦MULB	NASB	
NSC	♦PHIC	
♦PHIN	♦RTCF	
	♦VALG	
BC549B	♦ALGG	174 - 81
♦APX	♦ELMA	
INTG	♦ITTB	
♦MEHK	♦MULB	
NSC	♦PHIC	
♦PHIN	♦RTCF	
SIEG	♦VALG	
BC549BⓏ	♦NECJ	180 - 66
BC549C	♦ALGG	174 - 35
♦APX	♦ELMA	
INTG	♦ITTB	
♦MEHK	♦MULB	
NSC	♦PHIC	
♦PHIN	♦RTCF	
SIEG	♦VALG	
BC549CⓏ	♦NECJ	180 - 67
BC550	♦APX	174 - 82
♦ELMA	INTG	
♦MULB	♦PHIC	
♦PHIN	♦RTCF	
	♦VALG	
BC550B	♦ALGG	174 - 83
♦APX	♦ELMA	
INTG	♦ITTB	
♦MULB	♦PHIC	
♦PHIN	♦RTCF	
SIEG	♦VALG	
BC550BⓏ	♦NECJ	180 - 68
BC550C	♦ALGG	174 - 36
♦APX	♦ELMA	
INTG	♦ITTB	
♦MULB	♦PHIC	
♦PHIN	SIEG	
	♦VALG	
BC550CⓏ	♦NECJ	180 - 69
BC556	♦APX	137 - 17
♦ELMA	INTG	
♦MULB	♦PHIC	
♦PHIN	♦RTCF	
TIID	♦VALG	
BC556A	♦ALGG	137 - 18
♦ELMA	INTG	
♦ITTB	♦MULB	
♦PHIC	♦PHIN	
♦RTCF	SIEG	
TIID	♦VALG	
BC556AⓏ	♦NECJ	140 - 17
BC556B	INTG	137 - 90
♦ITTB	SIEG	
BC556BⓏ	♦NECJ	140 - 18
BC556VI	♦ALGG	137 - 19
	SIEG	
BC557	♦APX	137 - 20
♦ELMA	INTG	
MEHK	♦MULB	
NASB	NSC	
♦PHIC	♦PHIN	
♦RTCF	TIID	
	♦VALG	
BC557A	♦ALGG	137 - 21
♦ELMA	INTG	
♦ITTB	MEHK	
♦MULB	♦PHIC	
♦PHIN	♦RTCF	
SIEG	TIID	
	♦VALG	
BC557AⓏ	♦NECJ	140 - 19
BC557B	♦ALGG	137 - 22
♦ELMA	INTG	
♦ITTB	MEHK	
♦MULB	♦PHIN	
SIEG	TIID	
BC557BⓏ	♦NECJ	140 - 20
BC557VI	♦ALGG	137 - 23
	SIEG	
BC558	♦APX	137 - 24
♦ELMA	INTG	
MEHK	♦MULB	
NASB	NSC	
♦PHIC	♦PHIN	
♦RTCF	TIID	
	♦VALG	
BC558A	♦ALGG	137 - 25
♦APX	♦ELMA	
INTG	♦ITTB	
MEHK	♦MULB	
NSC	♦PHIC	
♦PHIN	♦RTCF	
SIEG	TIID	
	♦VALG	
BC558AⓏ	♦NECJ	140 - 21
BC558B	♦ALGG	137 - 26
♦APX	♦ELMA	
INTG	♦ITTB	
MEHK	♦MULB	
♦PHIC	♦PHIN	
♦RTCF	SIEG	
TIID	♦VALG	
BC558BⓏ	♦NECJ	140 - 22
BC558C	♦ALGG	137 - 27
INTG	♦ITTB	
SIEG	TIID	
BC558VI	♦ALGG	137 - 28
	SIEG	
BC559	♦APX	137 - 29
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BC559	MFRS	Pg&Line
(cont.)	♦ELMA	
INTG	MEHK	
♦MULB	NASB	
NSC	♦PHIC	
♦PHIN	♦RTCF	
	♦VALG	
BC559A	♦ALGG	137 - 30
♦APX	♦ELMA	
INTG	♦ITTB	
MEHK	♦MULB	
NSC	♦PHIC	
♦PHIN	♦RTCF	
SIEG	♦VALG	
BC559AⓏ	♦NECJ	140 - 23
BC559B	♦ALGG	137 - 31
♦APX	♦ELMA	
INTG	♦ITTB	
MEHK	♦MULB	
NSC	♦PHIC	
♦PHIN	♦RTCF	
SIEG	♦VALG	
BC559BⓏ	♦NECJ	140 - 24
BC559C	♦ALGG	137 - 32
INTG	♦ITTB	
	SIEG	
BC560	♦ELMA	173 - 73
♦MULB	♦PHIN	
	♦VALG	
BC560A	♦ALGG	137 - 33
♦ELMA	INTG	
♦ITTB	♦MULB	
♦PHIN	SIEG	
	♦VALG	
BC560AⓏ	♦NECJ	140 - 25
BC560B	♦ALGG	137 - 34
♦ELMA	INTG	
♦ITTB	♦MULB	
♦PHIN	SIEG	
	♦VALG	
BC560BⓏ	♦NECJ	140 - 26
BC560C	♦ALGG	137 - 35
INTG	♦ITTB	
	SIEG	
BC582	♦TIID	158 - 32
BC582A	♦TIID	158 - 33
BC582B	♦TIID	158 - 34
BC583	♦TIID	158 - 35
BC583A	♦TIID	158 - 36
BC583B	♦TIID	158 - 37
BC583C	♦TIID	158 - 38
BC584	♦TIID	158 - 39
BC584B	♦TIID	158 - 40
BC584C	♦TIID	158 - 41
BC612	TIIB	129 - 7
BC635	♦ALGG	184-100
ELMA	PHIC	
♦PHIN	♦RTCF	
	SIEG	
BC635Ⓩ	♦VALG	184-101
BC635-BC636	ELMA	338 - 71
	♦PHIN	
BC636	♦ALGG	141 - 52
ELMA	MEHK	
PHIC	♦PHIN	
♦RTCF	SIEG	
BC636Ⓩ	♦VALG	141 - 53
BC637	♦ALGG	184-102
ELMA	PHIC	
♦PHIN	♦RTCF	
	SIEG	
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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GTC	NSC	
♦PIHS	♦SGAI	
	♦SIEG	
BD440	♦ALGG	222 - 42
GTC	NSC	
♦PIHS	♦SGAI	
	♦SIEG	

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TYPE No.	MFRS	Pg&Line
BDY82	MISI	222- 52
NPC	THCF	
	TOSJ	
BDY83	MISI	222- 53
NPC	THCF	
	TOSJ	
BDY90	♦MULB	262- 8
NASB	♦PHIN	313- 39
♦RTCF	♦VALG	
BDY91	♦MULB	313- 40
NASB	♦PHIN	262- 9
♦RTCF	♦VALG	
BDY92	♦MULB	262- 10
NASB	♦PHIN	313- 41
♦RTCF	♦VALG	
BDY93	♦APX	316- 17
♦MULB	♦PHIN	262- 11
♦RTCF	♦VALG	
BDY93/01	♦MULB	262- 12
		316- 26
BDY94	♦APX	316- 18
♦MULB	♦PHIN	262- 13
♦RTCF	♦VALG	
BDY94/01	♦MULB	262- 14
		316- 27
BDY96	♦MULB	316- 28
♦PHIN	♦RTCF	269- 8
	♦VALG	
BDY96/01	♦MULB	269- 9
		316- 29
BDY97	♦APX	316- 30
♦MULB	♦PHIN	269- 10
♦RTCF	♦VALG	
BDY97/01	♦MULB	269- 11
		316- 31
BDY98	♦APX	316- 32
		269- 12
BF108	♦NPC	184- 67
	TADI	
BF115	ELMA	144- 44
♦MEHK	♦PHIN	
♦RTCF	♦VALG	
BF117	TIIF	181- 4
BF120	INTG	155-103
BF140R,S	♦NPC	187- 26
BF152	MEHK	151- 43
BF153	CEN	150- 60
IDI	MEHK	
BF154	MEHK	161- 1
BF155	SGAI	147- 12
BF155R,S	♦NPC	187- 27
BF156	MEHK	183- 95
	SGAI	
BF157	MEHK	183- 96
	SGAI	
BF158	MEHK	151- 44
BF159	MEHK	151- 45
BF160	CEN	151- 23
IDI	MEHK	
BF161	SGAI	147- 10
BF166	SGAI	147- 6
BF167	ALGG	144- 33
BELI	CEN	
ELMA	MISI	
♦MULB	NPC	
NSC	PHIC	
♦PHIN	♦RTCF	
SGAI	TADI	
THCF	TIIF	
BF173	ALGG	155- 75
BELI	CEN	
ELMA	MEHK	
MISI	♦MULB	
NPC	PHIC	
♦PHIN	♦RTCF	
SGAI	TADI	
THCF	TIIF	
BF174	SGAI	184- 44
	TIIF	
BF175	SGAI	147- 7
BF177	MEHK	184- 94
NASB	♦PHIN	
♦RTCF	TADI	
♦TIIB	TIIF	
BF177☑	♦MOTA	177-107
BF178	MEHK	184- 95
MISI	NASB	
NPC	♦PHIN	
♦RTCF	TADI	
THCF	♦TIIB	
	TIIF	
BF178☑	♦MOTA	177-108
BF179	MEHK	184- 96
MISI	NASB	
NPC	♦PHIN	
♦RTCF	TADI	
THCF	♦TIIB	
	TIIF	
BF179A	MISI	235- 54
NPC	TADI	
	THCF	
BF179A☑	♦MOTA	177-109
BF179B	MISI	235- 55
NPC	TADI	
	THCF	
BF179B☑	♦MOTA	177-110
BF179C	MISI	235- 56
NPC	THCF	
BF179C☑	♦MOTA	178- 1
BF180	ELMA	146- 56
♦MISI	♦MULB	
♦NPC	NSC	
PHIC	♦PHIN	
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TYPE No.	MFRS	Pg&Line
BF180		
(cont.)	♦RTCF	
♦THCF	TIIB	
TIIF	♦VALG	
BF181	ELMA	146- 39
♦MISI	♦MULB	
♦NPC	NSC	
PHIC	♦PHIN	
♦RTCF	♦THCF	
TIIF	♦VALG	
BF182	ELMA	146- 52
MISI	♦MULB	
♦NPC	PHIC	
♦PHIN	♦RTCF	
THCF	♦VALG	
BF183	ELMA	146- 66
MISI	♦MULB	
♦NPC	PHIC	
♦PHIN	♦RTCF	
THCF	♦VALG	
BF184	ALGG	144- 46
BELI	ELMA	
MEHK	MULB	
PHIC	♦PHIN	
	♦RTCF	
BF185	ALGG	144- 43
BELI	ELMA	
MEHK	MULB	
PHIC	♦PHIN	
	♦RTCF	
BF194	BELI	152-100
CEN	IDI	
MEHK	♦MULB	
NSC	♦PHIN	
♦RTCF	SIEG	
BF195	BELI	152- 94
CEN	IDI	
MEHK	♦MULB	
NSC	♦PHIN	
♦RTCF	SIEG	
BF196	CEN	154- 77
MISI	♦MULB	
♦NPC	NSC	
♦PHIN	♦RTCF	
	THCF	
BF197	CEN	154- 93
MEHK	MISI	
♦MULB	♦NPC	
NSC	♦PHIN	
♦RTCF	THCF	
BF198△	♦ALGG	175- 16
♦APX	CEN	
ELMA	INTG	
ITTB	NSC	
♦PHIN	♦RTCF	
	♦VALG	
BF198☑	MISI	154- 78
NASB	NPC	
♦PHIC	♦PIHS	
♦SIEG	THCF	
BF199△	♦ALGG	175- 27
♦APX	CEN	
ELMA	INTG	
ITTB	NSC	
♦PHIN	♦RTCF	
	♦VALG	
BF199☑	MISI	154- 94
NASB	NPC	
♦PHIC	♦PIHS	
♦SIEG	THCF	
BF199%	♦MEHK	161- 2
BF200	BELI	146- 35
ELMA	♦MEHK	
♦MISI	♦MULB	
♦NPC	NSC	
PHIC	♦PHIN	
♦RTCF	THCF	
	♦VALG	
BF200☑	♦MOTA	146- 53
BF222	SGAI	147- 5
	TADI	
BF224	TIIB	167- 65
TIID	TIIF	
BF225	TIIB	167-109
TIID	TIIF	
BF233-2	MISI	150-104
♦NPC	NSC	
	THCF	
BF233-2△	NSC	178- 2
BF233-3	MISI	150-105
♦NPC	NSC	
	THCF	
BF233-3△	NSC	178- 3
BF233-4	MISI	150-106
♦NPC	NSC	
	THCF	
BF233-5	MISI	150-107
♦NPC	NSC	
	THCF	
BF233-6	MISI	150-108
♦NPC	THCF	
BF234	MEHK	159- 90
MISI	♦NPC	
	THCF	
BF235	MISI	159- 91
♦NPC	THCF	
BF237	TIID	166- 15
BF238	TIID	166- 16
BF240	ALGG	155- 66
INTG	ITTB	
NASB	NSC	
♦PHIN	♦PIHS	
SIEG	♦TIID	
	♦VALG	

TYPE No.	MFRS	Pg&Line
BF240B	PIHS	155- 67
BF241	ALGG	155- 63
INTG	ITTB	
NASB	NSC	
♦PHIN	♦PIHS	
SIEG	♦TIID	
	♦VALG	
BF241C	PIHS	155- 64
BF241D	PIHS	155- 65
BF244	NASB	198-102
TIIB	TIIC	
TIID	TSC	
BF244A	NASB	194- 99
NSC	♦PHIN	
TIIB	TIID	
	TSC	
BF244B	NASB	194-100
NSC	♦PHIN	
TIIB	TIID	
	TSC	
BF244C	NASB	194-101
NSC	♦PHIN	
TIIB	TIID	
	TSC	
BF245	ELMA	198-103
MISI	♦NPC	
PHIC	THCF	
TIIB	TIIC	
TIID	TIIF	
	TSC	
BF245A	ELMA	194-102
MEHK	♦MULB	
NASB	NSC	
PHIC	♦PHIN	
♦RTCF	TIID	
TSC	♦VALG	
BF245B	ELMA	194-103
MEHK	♦MULB	
NASB	NSC	
PHIC	♦PHIN	
♦RTCF	TIID	
TSC	♦VALG	
BF245C	ELMA	194-104
MEHK	♦MULB	
NASB	NSC	
PHIC	♦PHIN	
♦RTCF	TIID	
TSC	♦VALG	
BF246	TIIB	198-104
TIIC	TIID	
	TSC	
BF246A	NSC	193- 40
♦RTCF	TIIB	
TIID	TSC	
	♦VALG	
BF246B	NSC	193- 41
♦RTCF	TIIB	
TIID	TSC	
	♦VALG	
BF246C	NSC	193- 42
♦RTCF	TIID	
TSC	♦VALG	
BF247	MISI	198-105
NASB	♦NPC	
THCF	TIIB	
TIID	TIIF	
	TSC	
BF247A	NASB	193- 43
NSC	TIID	
	TSC	
BF247B	NASB	193- 44
NSC	TIID	
	TSC	
BF247C	NASB	193- 45
NSC	TIID	
	TSC	
BF248	TIIF	169- 81
BF249	TIIF	135-104
BF250	TIIF	168- 97
BF251	SGAI	146- 40
	TADI	
BF252	SGAI	146- 16
	TADI	
BF254	♦ITTB	356- 6
BF254△	MEHK	147- 32
NASB	NSC	
♦PIHS	SIEG	
BF254☑	♦ALGG	159- 95
BF254%	♦PHIN	159- 96
♦TIID	♦VALG	
BF254B	PIHS	147- 33
BF255△	MEHK	152- 95
NASB	NSC	
♦PIHS	SIEG	
BF255☑	♦ALGG	159- 9
	ITTB	
BF255%	♦PHIN	159- 10
♦TIID	♦VALG	
BF255C	PIHS	147- 30
BF255D	PIHS	147- 31
BF256A	CEN	194-105
MEHK	♦MULB	
NASB	NSC	
♦PHIN	♦RTCF	
TIID	♦VALG	
BF256B	CEN	194-106
MEHK	♦MULB	
NASB	NSC	
♦PHIN	♦RTCF	
TIID	♦VALG	
BF256C	CEN	194-107
MEHK	♦MULB	
NASB	NSC	
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TYPE No.	MFRS	Pg&Line
BF256C		
(cont.)	♦PHIN	
♦RTCF	TIID	
	♦VALG	
BF256L	♦TIIB	198-106
BF256LA	♦TIIB	198-107
BF256LB	♦TIIB	198-108
BF256LC	♦TIIB	198-109
BF257	♦RCAB	243- 19
BF257△	ITTB	239- 3
♦SGAI	TIID	
BF257☑	♦ALGG	184- 88
MEHK	MISI	
NASB	♦NPC	
NSC	♦PHIN	
THCF	TIIB	
	TIIF	
BF258	♦RCAB	243- 20
BF258△	ITTB	239- 4
♦SGAI	TIID	
BF258☑	♦ALGG	184- 89
MEHK	MISI	
NASB	♦NPC	
NSC	♦PHIN	
THCF	TIIB	
	TIIF	
BF259	♦RCAB	243- 21
BF259△	ITTB	239- 5
♦SGAI	TIID	
BF259☑	♦ALGG	184- 90
MEHK	MISI	
NASB	♦NPC	
NSC	♦PHIN	
THCF	TIIB	
	TIIF	
BF261	MISI	146- 57
♦NPC	THCF	
BF270	SGAI	146- 41
BF271	MEHK	153- 24
MISI	♦NPC	
SGAI	TADI	
	THCF	
BF272A	♦SGAI	123- 93
BF273	MEHK	146- 58
BF274	MEHK	146- 59
BF287	SGAI	146- 67
BF288	SGAI	146- 28
BF290	SGAI	146- 72
BF291	SGAI	167- 37
BF291A	SGAI	167- 99
BF291B	SGAI	167-100
BF292	SGAI	183- 6
BF292A	SGAI	184- 2
BF292B	SGAI	184- 3
BF292C	SGAI	184- 4
BF293A	SGAI	167-101
BF293D	SGAI	167-102
BF294	SGAI	184- 32
BF297	♦TIID	179- 48
BF298	♦TIID	179- 49
BF299	♦TIID	179- 50
BF306	SGAI	154- 89
BF308	SGAI	146- 80
BF309	SGAI	146- 81
BF310△	ALGG	161- 28
	♦PIHS	
BF311	ALGG	165- 77
	♦PIHS	
BF314△	ALGG	161- 14
	PIHS	
BF314☑	♦MEHK	161- 39
BF316A	♦SGAI	123- 89
BF320A	TIIB	188- 53
BF320B	TIIB	188- 54
BF320C	TIIB	188- 55
BF322	TIIF	185- 84
BF323	TIIF	142- 22
BF324	INTG	125- 95
ITTB	♦MULB	
♦PHIN	♦RTCF	
SGAI	♦SIEG	
	♦VALG	
BF327	♦VALG	192- 16
BF336	ELMA	239-104
MEHK	♦MULB	
NASB	♦PHIC	
♦PHIN	♦RTCF	
♦TIIB	♦VALG	
BF337	ELMA	239-105
MEHK	♦MULB	
NASB	♦PHIC	
♦PHIN	♦RTCF	
♦TIIB	♦VALG	
BF338	ELMA	239-106
MEHK	♦MULB	
NASB	♦PHIC	
♦PHIN	♦RTCF	
♦TIIB	♦VALG	
BF340	TIID	125- 6
BF341	TIID	125- 7
BF342	TIID	125- 8
BF343	TIID	125- 9
BF346	TIID	198-110
BF348	NASB	199- 1
	TIID	
BF350	TIID	199- 2
BF351	TIID	199- 3
BF352	TIID	199- 4
BF353	TIID	199- 5
BF355	♦MULB	182- 51
	SGAI	
BF357	TIID	148- 37
BF362	♦ALGG	143-110
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TYPE No.	MFRS	Pg&Line
BF362		
(cont.)	♦MULB	
♦PHIN	SIEG	
	♦VALG	
BF363	♦ALGG	143-108
♦MULB	♦PHIN	
SIEG	♦VALG	
BF364	♦RTCF	159- 97
BF365	♦RTCF	159- 11
BF366	♦MOTA	163- 9
BF367	♦MOTA	163- 14
BF368	♦MOTA	162- 74
BF369	♦MOTA	163- 10
BF371	♦MOTA	163- 28
BF373	♦MOTA	180- 93
BF374	♦MOTA	165- 80
BF375	♦MOTA	165- 81
BF375C	♦MOTA	165- 82
BF375D	♦MOTA	165- 83
BF379	ALGG	129- 86
BF380	♦MOTA	246- 38
BF380-1	♦MOTA	246- 39
BF380-5	♦MOTA	246- 40
BF381	♦MOTA	246- 41
BF381-1	♦MOTA	246- 42
BF381-5	♦MOTA	246- 43
BF382	♦MOTA	246- 44
BF382-1	♦MOTA	246- 45
BF382-5	♦MOTA	246- 46
BF394	♦MOTA	164- 47
BF394B	♦MOTA	164- 48
BF395	♦MOTA	164- 49
BF395C	♦MOTA	164- 50
BF395D	♦MOTA	164- 51
BF397	♦TIID	139- 16
BF398	♦TIID	139- 17
BF414	ALGG	129- 89
SGAI	♦SIEG	
BF415	TIID	187- 60
BF416	TIID	142- 62
BF417	TIID	187- 61
BF418	TIID	142- 63
BF422	♦ALGG	186- 32
ELMA	MULB	
♦PHIN	♦RTCF	
SIEG	♦VALG	
BF423	♦ALGG	142- 28
ELMA	MULB	
♦PHIN	♦RTCF	
SIEG	♦VALG	
BF424	♦INTG	125- 84
BF440	ALGG	129- 25
BF441	ALGG	129- 26
BF450	INTG	125- 86
ITTB	♦MULB	
♦PHIN	♦RTCF	
♦SIEG	TIID	
	♦VALG	
BF451	INTG	125- 87
ITTB	♦MULB	
♦PHIN	♦RTCF	
♦SIEG	TIID	
	♦VALG	
BF456	TIIB	229- 39
BF457	♦ALGG	247- 93
CEN	ELMA	
MEHK	♦MULB	
NSC	PHIB	
PHIC	♦PHIN	
♦PIHS	♦RTCF	
♦SIEG	TIIB	
♦TIID	TOSJ	
	♦VALG	
BF457☑	♦MOTA	247- 94
BF458	♦ALGG	247- 95
CEN	ELMA	
MEHK	♦MULB	
NSC	PHIB	
PHIC	♦PHIN	
♦PIHS	♦RTCF	
♦SIEG	TIIB	
♦TIID	TOSJ	
	♦VALG	
BF458☑	♦MOTA	247- 96
BF459	♦ALGG	247- 97
CEN	ELMA	
MEHK	♦MULB	
NSC	PHIB	
PHIC	♦PHIN	
♦PIHS	♦RTCF	
♦SIEG	TIIB	
♦TIID	TOSJ	
	♦VALG	
BF459☑	♦MOTA	247- 98
BF469	♦ALGG	241- 59
ELMA	♦MULB	
♦RTCF	SIEG	
	♦VALG	
BF470	♦ALGG	217- 15
ELMA	♦MULB	
♦RTCF	SIEG	
	♦VALG	
BF471	ALGG	241- 60
	♦SIEG	
BF472	ALGG	216- 69
	♦SIEG	
BF479	♦SGAI	122- 78
BF479S	♦SGAI	122- 77
BF480	♦MULB	144- 39
♦PHIN	♦RTCF	
	♦VALG	
BF494	ELMA	159- 98
♦MEHK	PHIC	
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IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
BFW42	LTTF	170 - 80
BFW43	MEHK	135 - 16
	SGAI	TADI
		TIIF
BFW44	MEHK	140 - 91
	SGAI	TIIF
BFW45	♦MULB	184 - 97
	♦PHIN	TIIF
BFW54	♦TIIB	195 - 11
BFW55	♦TIIB	195 - 12
BFW56	♦TIIB	195 - 13
BFW60	PHIC	164 - 31
		302 - 8
BFW61	ELMA	195 - 14
	NASB	♦PHIC
	♦PHIN	♦VALG
BFW63	♦SGAI	146 - 43
BFW64	♦SGAI	146 - 54
BFW68	♦SGAI	168 - 1
		294 - 95
BFW70	SGAI	153 - 23
BFW90	MEHK	129 - 12
		297 - 31
BFW92	♦MULB	144 - 37
	♦PHIC	♦PHIN
	SGAI	♦SIEG
		♦VALG
BFW93	♦APX	147 - 80
	PHIC	♦PHIN
	♦SIEG	♦VALG
BFW94	♦SGAI	181 - 52
BFW96	♦MULB	192 - 22
BFW99	SIEG	152 - 44
BFX11	SGAI	137 - 9
	TIIF	342 - 14
BFX12	SGAI	129 - 19
	♦TIIB	TIIF
BFX13	CEN	129 - 22
	MEHK	NSC
	SGAI	♦TIIB
		TIIF
BFX15	SGAI	177 - 7
	TIIF	342 - 15
BFX17	SGAI	185 - 85
BFX18	MEHK	150 - 86
	SGAI	TIIF
BFX19	MEHK	150 - 87
	SGAI	
BFX20	MEHK	150 - 88
	SGAI	
BFX21	SGAI	150 - 89
BFX29	CEN	138 - 49
	ELMA	IDI 301 - 44
	MEHK	♦MULB
	NASB	NSC
	♦NTLB	PHIC
	SGAI	TADI
	TIIB	TIIF
BFX30	CEN	136 - 38
	MEHK	♦MULB
	NASB	NSC
	♦NTLB	SGAI
	TADI	TIIB
		TIIF
BFX31	SGAI	147 - 11
BFX33	SGAI	286 - 94
BFX34	♦ALGG	319 - 64
	GTC	♦MULB 186 - 82
	NASB	♦PHIN
	♦RTCF	TADI
		♦VALG
BFX35	SGAI	135 - 87
	TIIF	
BFX36	SGAI	138 - 71
	TADI	TIIF 342 - 16
BFX37	CEN	132 - 29
	MEHK	♦MULB
	NSC	SGAI
	TADI	TIIF
BFX38	MEHK	141 - 86
	NASB	SGAI 305 - 71
	TADI	TIIF
BFX38Ø	♦MOTA	305 - 72
		142 - 7
BFX39	MEHK	141 - 87
	NASB	SGAI 305 - 73
	TADI	TIIF
BFX39Ø	♦MOTA	305 - 74
		142 - 8
BFX40	MEHK	141 - 88
	NASB	SGAI 305 - 75
	TADI	TIIF
BFX40Ø	♦MOTA	305 - 76
		142 - 9
BFX41	NASB	141 - 89
	SGAI	TADI 305 - 77
		TIIF
BFX41Ø	MEHK	305 - 78
	♦MOTA	142 - 10
BFX43	TADI	168 - 26
	TIIF	
BFX44	ELMA	168 - 27
	♦PHIN	♦RTCF
		TIIF
BFX48	MEHK	133 - 56
	SGAI	TIIF 300 - 52
BFX50	TIIF	300 - 98
		164 - 42
BFX51	MEHK	239 - 11
		TIIF
BFX55	SIEG	186 - 76
BFX59	SIEG	155 - 78
	TADI	
BFX59F	SIEG	155 - 79

TYPE No.	MFRS	Pg&Line
BFX60	SIEG	155 - 77
	TADI	
BFX62	SIEG	144 - 36
BFX65	♦ALGG	132 - 30
	CEN	IDI
	NSC	TADI
		♦TIIF
BFX66	SGAI	171 - 25
	TIIF	
BFX67	SGAI	347 - 77
BFX68	NASB	181 - 28
	♦SGAI	TIIF
BFX69	NASB	184 - 35
	♦SGAI	TIIF
BFX69A	NASB	184 - 42
	♦SGAI	
BFX70	MEHK	173 - 26
	♦SGAI	TIIF 342 - 17
BFX71	♦SGAI	342 - 18
	TADI	TIIF 173 - 27
BFX72	♦SGAI	173 - 28
	TIIF	342 - 19
BFX73	♦SGAI	151 - 57
	TIIF	
BFX74	NASB	177 - 68
	♦SGAI	TIIF
BFX74A	NASB	142 - 11
	♦SGAI	TIIF
BFX79	♦SGAI	338 - 100
BFX80	♦SGAI	338 - 101
BFX81	♦SGAI	338 - 102
	TIIF	
BFX84	CEN	183 - 64
	ELMA	FERB
	IDI	MEHK
	♦MULB	NASB
	NSC	♦NTLB
	PHIC	♦PHIN
	SGAI	TADI
	TIIB	TIIF
		♦VALG
BFX50Ø		♦RTCF 291 - 32
		185 - 49
BFX85	CEN	183 - 65
	ELMA	FERB
	IDI	MEHK
	♦MULB	NASB
	NSC	♦NTLB
	SGAI	TADI
	TIIB	TIIF
BFX86	CEN	183 - 66
	ELMA	IDI
	MEHK	♦MULB
	NASB	NSC
	♦NTLB	SGAI
	♦PHIN	SGAI
	TADI	TIIB
	TIIF	♦VALG
BFX51Ø		♦RTCF 291 - 33
		185 - 52
BFY52	CEN	183 - 68
	ELMA	IDI 296 - 75
	ITTB	MEHK
	♦MULB	NASB
	NSC	♦NTLB
	PHIC	♦PHIN
	SGAI	TADI
	TIIB	TIIF
		♦VALG
BFY52Ø		♦RTCF 291 - 34
		185 - 90
BFY53		♦MULB 183 - 69
	NASB	♦NTLB
	TADI	TIIF
BFY55Ø	ELMA	183 - 102
	♦PHIN	♦RTCF
		♦VALG
BFY56	CEN	184 - 45
	IDI	MEHK 309 - 66
	NASB	NSC
	SGAI	TADI
	TIIB	TIIF
BFY56A	♦ALGG	184 - 46
	MEHK	NASB
	SGAI	TADI
		TIIF
BFY56B	NASB	184 - 36
	SGAI	
BFY57	NASB	183 - 24
	SGAI	TIIF
BFY63	LTTF	178 - 65
	NASB	
BFY64	MEHK	141 - 4
	NASB	SGAI 299 - 101
	TADI	TIIF
BFY65	TIIF	233 - 12
BFY67A	TIIF	181 - 22
BFY67C	TIIF	181 - 23
BFY70	♦PHIN	237 - 97
	TIIF	
BFY72	CEN	302 - 31
	IDI	MEHK 186 - 5
	NASB	NSC
	SGAI	TADI
		TIIF
BFY74	MEHK	167 - 96
	♦MOTA	NASB
	SGAI	TADI
BFY75	MEHK	167 - 97
	♦MOTA	NASB
	SGAI	TADI
BFY76	CEN	166 - 43
	IDI	MEHK
	NSC	SGAI
	TADI	TIIF
BFY77	MEHK	166 - 51
	TADI	TIIF
BFY78	MEHK	161 - 53
	♦MOTA	TADI
		TIIF
BFY79	MEHK	161 - 6
BFY80	ALGG	186 - 80
	TIIF	

TYPE No.	MFRS	Pg&Line
BFY81	MEHK	342 - 22
	SGAI	TADI
	TIIB	TIIF
BFY82	SGAI	342 - 23
	TADI	TIIF
BFY83	SGAI	342 - 24
	TADI	TIIB
		TIIF
BFY84	SGAI	342 - 25
	TADI	TIIB
		TIIF
BFY85	TIIF	342 - 26
		155 - 68
BFY86	TIIF	155 - 69
		342 - 27
BFY88	ALGG	147 - 13
BFY90Δ	ELMA	151 - 80
	♦FERB	♦MULB
	♦PHIN	♦SIEG
		♦VALG
BFY90Ø	ALGG	151 - 81
	LTTF	PHIC
	PHIN	♦RTCF
	TADI	TIIB
BFY91	TIIB	342 - 28
	TIIF	
BFY92	TIIB	342 - 29
	TIIF	
BGY22	♦APX	351 - 98
BGY22A	♦APX	351 - 99
BGY23	♦APX	351 - 100
BGY23A	♦APX	351 - 101
BGY32	♦VALG	356 - 7
BGY36	♦VALG	356 - 8
BLW60	♦APX	266 - 30
	♦MULB	♦PHIN
	♦RTCF	♦VALG
BLW64	♦APX	260 - 3
	♦MULB	PHIC
	♦PHIN	♦RTCF
		♦VALG
BLW75	♦APX	229 - 41
	♦MULB	♦PHIN
	♦RTCF	♦VALG
BLW76	♦APX	356 - 9
BLW77	♦APX	356 - 10
BLW78	♦APX	356 - 11
BLW79	♦APX	351 - 102
BLW80	♦APX	351 - 103
BLW81	♦APX	351 - 104
BLX13	♦APX	262 - 15
	♦MULB	PHIC
	♦PHIN	♦RTCF
		♦VALG
BLX14	♦APX	264 - 54
	♦MULB	PHIC
	♦PHIN	♦RTCF
		♦VALG
BLX15	♦APX	279 - 84
	♦MULB	PHIC
	♦PHIN	♦RTCF
		♦VALG
BLX37	♦RTCF	229 - 42
BLX38	♦RTCF	229 - 43
BLX65	♦APX	239 - 109
	♦MULB	PHIC
	♦PHIN	♦RTCF
		♦VALG
BLX66	♦APX	246 - 101
	♦MULB	PHIC 351 - 105
	♦PHIN	♦RTCF
		♦VALG
BLX67	♦APX	351 - 106
	♦MULB	PHIC 238 - 78
	♦PHIN	♦RTCF
		♦VALG
BLX68	♦APX	250 - 39
	♦MULB	PHIC
	♦PHIN	♦RTCF
BLX69	PHIC	260 - 69
	♦PHIN	
BLX69A	♦APX	260 - 70
	♦MULB	♦PHIN
	♦RTCF	♦VALG
BLX88	LTTF	170 - 81
BLX91	PHIC	238 - 72
	♦PHIN	♦VALG
BLX91A	♦APX	229 - 44
	♦MULB	♦PHIN
		♦RTCF
BLX92	PHIC	241 - 6
	♦PHIN	♦VALG
BLX92A	♦APX	229 - 45
	♦MULB	♦RTCF
BLX93	PHIC	248 - 30
	♦PHIN	♦VALG
BLX93A	♦APX	229 - 46
	♦MULB	♦PHIN
		♦RTCF
BLX94	PHIC	260 - 73
		♦PHIN
BLX94A	♦APX	260 - 71
	♦MULB	♦PHIN
	♦RTCF	♦VALG
BLX95	♦APX	266 - 31
	♦MULB	PHIC
	♦PHIN	♦RTCF
		♦VALG
BLX96	♦APX	244 - 63
	PHIC	♦PHIN
	♦RTCF	♦VALG
BLX97	♦APX	249 - 90
cont next col.		

TYPE No.	MFRS	Pg&Line
BLX97		
(cont.)		PHIC
	♦PHIN	♦RTCF
		♦VALG
BLX98	♦APX	252 - 88
	♦MULB	♦PHIC
	♦PHIN	♦RTCF
		♦VALG
BLY14	♦PHIN	247 - 99
BLY17	♦PHIN	269 - 13
BLY22	TADI	244 - 64
BLY33	♦MULB	239 - 110
	TADI	
BLY34	♦MULB	240 - 1
	TADI	
BLY35	♦MULB	248 - 35
		356 - 12
BLY36	♦MULB	356 - 13
		287 - 35
BLY40	LTTF	275 - 106
BLY47	TIIB	229 - 47
		321 - 89
BLY47A	TIIB	321 - 90
		229 - 48
BLY48	TIIB	229 - 49
		321 - 91
BLY48A	TIIB	321 - 92
		229 - 50
BLY49	TIIB	229 - 51
		321 - 93
BLY49A	TIIB	321 - 94
		229 - 52
BLY50	TIIB	229 - 53
		321 - 95
BLY50A	TIIB	321 - 96
		229 - 54
BLY53A	♦MULB	249 - 91
	TIIB	♦VALG
BLY55	♦MULB	246 - 47
BLY61	TADI	229 - 55
	TIIB	
BLY62	TIIB	229 - 56
BLY63	TIIB	229 - 57
BLY83	♦MULB	253 - 95
	PHIC	♦PHIN 356 - 14
		TIIB
BLY84	♦MULB	356 - 15
	PHIC	♦PHIN 253 - 96
BLY85	♦MULB	246 - 48
		TIIB
BLY87A	♦APX	247 - 100
	PHIC	♦PHIN
	♦RTCF	TIIB
		♦VALG
BLY88A	♦APX	252 - 82
	PHIC	♦PHIN
	♦RTCF	TIIB
		♦VALG
BLY89A	♦APX	262 - 16
	♦MULB	PHIC
	♦PHIN	♦RTCF
		♦VALG
BLY90	♦APX	271 - 70
	♦MULB	PHIC
	♦PHIN	♦RTCF
		♦VALG
BLY91A	♦APX	248 - 34
	PHIC	♦PHIN
	♦RTCF	TIIB
		♦VALG
BLY92A	♦APX	254 - 53
	PHIC	♦PHIN
	♦RTCF	TIIB
		♦VALG
BLY93A	♦APX	262 - 17
	♦MULB	PHIC
	♦PHIN	♦RTCF
		♦VALG
BLY94	♦APX	271 - 71
	♦MULB	PHIC
	♦PHIN	♦RTCF
		♦VALG
BLY97	♦MULB	246 - 49
BM15-12	CTR	356 - 16
BM30-12	CTR	356 - 17
BM45-12	CTR	356 - 18
BM70-12	♦CTR	278 - 69
BM80-12	CTR	356 - 19
BM80-28	CTR	356 - 20
BM100-12	CTR	356 - 21
BM100-28	♦CTR	356 - 22
BM150-12	♦CTR	356 - 23
BN209	TIIB	342 - 30
BR100A	♦SODI	349 - 28
		244 - 65
BR100B	KER	244 - 66
	♦SODI	349 - 29
BR100C	♦SODI	349 - 30
		260 - 4
BR100D	KER	256 - 24
	♦SODI	349 - 31
BR100E	♦SODI	349 - 32
		262 - 18
BR100F	♦SODI	260 - 5
		349 - 33
BR101A	♦SODI	349 - 34
		244 - 67
BR101B	KER	244 - 68
	MEHK	♦SODI 349 - 35
BR101C	♦SODI	349 - 36
		260 - 6
BR101D	KER	256 - 25
	MEHK	♦SODI 349 - 37

Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
BSY38	CEN	289 - 15
ELMA	IDI	160 - 89
MEHK	NASB	
NSC	♦PHIN	
RTCF	TADI	
	TIIF	
BSY39	CEN	160 - 90
ELMA	IDI	289 - 16
MEHK	NASB	
NSC	♦PHIN	
RTCF	TADI	
	TIIF	
BSY40	MEHK	292 - 39
TADI	TIIF	129 - 20
BSY41	MEHK	129 - 23
TADI	TIIF	292 - 40
BSY44	MEHK	183-104
NASB	TADI	
	TIIF	
BSY45	NASB	183 - 71
TADI	TIIF	
BSY46	NASB	183 - 72
TADI	TIIF	302 - 5
BSY51	CEN	184 - 73
IDI	INTG	
ITTB	MEHK	
MISI	NASB	
NPC	NSC	
SGAI	TADI	
THCF	TIIF	
	♦VALG	
BSY51☑	♦MOTA	184 - 74
BSY52	CEN	185 - 4
IDI	INTG	
ITTB	MEHK	
MISI	NASB	
NPC	NSC	
SGAI	TADI	
THCF	TIIF	
	♦VALG	
BSY52☑	♦MOTA	185 - 29
BSY53	CEN	184 - 75
IDI	INTG	
ITTB	MEHK	
MISI	NASB	
NPC	NSC	
TADI	THCF	
TIIF	♦VALG	
BSY53☑	♦MOTA	184 - 76
BSY54	CEN	185 - 11
IDI	INTG	
ITTB	MEHK	
MISI	NASB	
NPC	NSC	
SGAI	TADI	
THCF	TIIF	
	♦VALG	
BSY54☑	♦MOTA	185 - 30
BSY55	♦ALGG	184 - 77
INTG	ITTB	
MEHK	NASB	
TADI	TIIF	
	♦VALG	
BSY56	♦ALGG	185 - 12
INTG	ITTB	
MEHK	SGAI	
TADI	TIIF	
	♦VALG	
BSY58	NASB	186-107
SIEG	TADI	296 - 39
BSY59	TADI	318 - 57
		126 - 6
BSY61	TADI	149-103
		297 - 40
BSY62	SIEG	155 - 71
TADI	TIIF	
BSY62A	SIEG	169 - 69
		297 - 41
BSY62B	SIEG	297 - 42
		169 - 70
BSY63	SIEG	169 - 93
TADI	TIIF	298 - 10
BSY70	TIIF	160 - 75
BSY71	TIIF	185 - 39
BSY72	TIIF	158 - 75
BSY73	TIIF	157 - 92
BSY74	TIIF	158 - 76
BSY75	TIIF	157 - 93
BSY76	TIIF	158 - 77
BSY77	TIIF	157 - 94
BSY78	TIIF	158 - 78
BSY79	INTG	155 - 70
♦RTCF	TIIF	
BSY80	TIIF	159 - 58
BSY81	INTG	186 - 96
ITTB	MEHK	
NASB	TIIF	
BSY82	INTG	186 - 97
ITTB	MEHK	
	TIIF	
BSY83	INTG	186 - 98
ITTB	MEHK	
NASB	TIIF	
BSY84	INTG	186 - 99
ITTB	MEHK	
NASB	TIIF	
BSY85	INTG	186-100
ITTB	MEHK	
SGAI	TADI	
	TIIF	
BSY86	INTG	186-101
ITTB	MEHK	
NASB	TIIF	

TYPE No.	MFRS	Pg&Line
BSY87	INTG	184 - 78
ITTB	MEHK	
NASB	TIIF	
BSY87☑	♦MOTA	185 - 31
BSY88	INTG	184 - 79
ITTB	MEHK	
	TIIF	
BSY88☑	♦MOTA	185 - 45
BSY89	TIIF	156 - 65
		347 - 18
BSY90	INTG	184 - 80
MEHK	NASB	
	TIIF	
BSY91	NASB	183 - 73
TADI	TIIF	
BSY92	TIIF	183 - 74
BSY93	TIIF	166 - 40
BSY95	MEHK	145 - 70
	TADI	
BSY95A	CEN	159 - 26
♦FERB	IDI	
ITTB	MEHK	
♦MULB	NASB	
NSC	♦NTLB	
SGAI	TADI	
	TIIF	
BT708	RTN	143 - 1
BT918	RTN	143 - 2
BT929	RTN	143 - 3
BT930	RTN	143 - 4
BT2221	RTN	143 - 5
BT2221A	RTN	143 - 6
BT2222	RTN	143 - 7
BT2222A	RTN	143 - 8
BT2369A	RTN	143 - 9
BT2483	RTN	143 - 10
BT2484	RTN	143 - 11
BT2604	RTN	121 - 1
BT2605	RTN	121 - 2
BT2708	RTN	143 - 12
BT2906	RTN	121 - 3
BT2906A	RTN	121 - 4
BT2907	RTN	121 - 5
BT2907A	RTN	121 - 6
BT2944	RTN	121 - 7
BT2945	RTN	121 - 8
BT2946	RTN	121 - 9
BT3227	RTN	143 - 13
BT3250	RTN	121 - 10
BT3250A	RTN	121 - 11
BT3251	RTN	121 - 12
BT3251A	RTN	121 - 13
BT3700	RTN	143 - 14
BT3701	RTN	143 - 15
BT3724	RTN	143 - 16
BT3725	RTN	143 - 17
BT3906	RTN	121 - 14
BT3960	RTN	143 - 18
BT3999	RTN	229 - 60
BT4260	RTN	121 - 15
BT4261	RTN	121 - 16
BU100A	SGAI	229 - 61
BU102	NASB	284 - 59
	SGAI	
BU103A	♦NPC	251-107
BU104	MISI	284 - 60
♦NPC	♦THCF	
BU105	NASB	262 - 22
♦PHIN	♦RTCF	
BU105-02	NASB	262 - 23
BU106	RCAB	258 - 82
♦TIIB	TIID	
BU107	♦TIIB	258 - 83
BU108	♦MOTA	266-106
NASB	♦PHIN	
	♦RTCF	
BU109	MISI	284 - 61
♦NPC	♦THCF	
BU111	NASB	260 - 10
BU112	♦MISI	260 - 79
♦NPC	♦THCF	
BU113	MISI	264 - 63
♦NPC	♦THCF	
BU114	NASB	264 - 64
BU120	NASB	269 - 14
	RCAB	
BU123	NASB	269 - 15
BU126	MISI	262 - 24
♦MULB	NASB	
NPC	♦PHIN	
♦RCAB	♦RTCF	
THCF	TOSJ	
	♦VALG	
BU128	SGAI	229 - 62
BU129	MISI	264 - 65
NASB	♦NPC	
	THCF	
BU132	NASB	262 - 25
♦PHIN	♦RTCF	
BU133	♦MULB	262 - 26
NASB	♦PHIN	
♦RCAB	♦RTCF	
BU134	MISI	263 - 88
NASB	NPC	
	♦THCF	
BU204	♦ALGG	262 - 27
♦MULB	NASB	
PHIC	♦PHIN	
♦RTCF	TOSJ	
BU205	♦ALGG	262 - 28
♦APX	♦MULB	
NASB	PHIC	
♦PHIN	♦RTCF	
TOSJ	♦VALG	

TYPE No.	MFRS	Pg&Line
BU206	♦ALGG	262 - 29
♦MULB	NASB	
PHIC	♦PHIN	
	♦RTCF	
BU207	♦ALGG	266-107
♦APX	♦IMTM	
NASB	PHIC	
♦RTCF	TOSJ	
BU207A	♦MULB	266-108
♦PHIN	♦RTCF	
	♦VALG	
BU208	♦ALGG	266-109
♦APX	♦IMTM	
♦MULB	NASB	
PHIC	♦RTCF	
SST	TOSJ	
BU208A	♦MULB	266-110
♦PHIN	♦RTCF	
	♦VALG	
BU209	♦ALGG	267 - 1
NASB	PHIC	288 - 4
	♦RTCF	
BU209A	♦MULB	267 - 2
♦PHIN	♦VALG	
BU225	ALGG	229 - 63
BU326	♦MULB	266 - 94
	♦VALG	
BU326A	♦MULB	266 - 95
	♦VALG	
BU326S	SGAI	229 - 64
BU406	♦SGAI	263 - 60
BU406D	SGAI	263 - 61
BU407	♦SGAI	263 - 62
BU407D	SGAI	263 - 63
BU408	SGAI	263 - 64
BU408D	SGAI	263 - 65
BU409	SGAI	229 - 65
BU606	♦SGAI	264 - 66
BU606D	♦SGAI	264 - 67
BU607	♦SGAI	264 - 68
BU607D	♦SGAI	264 - 69
BU608	♦SGAI	264 - 70
BU608D	♦SGAI	264 - 71
BUW24	♦SGAI	266 - 37
		321 - 82
BUW25	♦SGAI	321 - 83
		266 - 38
BUW26	♦SGAI	271 - 9
		321 - 84
BUX10	INR	273-108
MISI	NPC	323 - 38
SSCF	♦THCF	
BUX10A	♦RCAB	273-109
BUX11	MISI	273-110
NPC	♦SSCF	323 - 39
	♦THCF	
BUX12	INR	323 - 40
MISI	NPC	274 - 1
♦SSCF	♦THCF	
BUX13	INR	274 - 2
MISI	NPC	324 - 8
♦SSCF	♦THCF	
BUX14	INR	324 - 9
MISI	NPC	274 - 3
♦SSCF	♦THCF	
BUX15	INR	274 - 4
MISI	NPC	324 - 10
♦SSCF	♦THCF	
BUX16	INR	266 - 6
	RCAB	
BUX16A	INR	266 - 7
	RCAB	
BUX16B	INR	266 - 8
	RCAB	
BUX16C	INR	266 - 9
	RCAB	
BUX17	INR	274 - 5
	♦RCAB	324 - 11
BUX17A	INR	324 - 12
	♦RCAB	274 - 6
BUX17B	INR	274 - 7
	♦RCAB	324 - 13
BUX17C	INR	324 - 14
	♦RCAB	274 - 8
BUX18	INR	270 - 62
	♦RCAB	
BUX18A	INR	270 - 63
	♦RCAB	
BUX18B	INR	270 - 64
	♦RCAB	
BUX18C	INR	270 - 65
	♦RCAB	
BUX20	INR	281 - 66
MISI	NPC	323 - 41
SSCF	♦THCF	
BUX21	MISI	323 - 42
NPC	♦SSCF	281 - 67
	♦THCF	
BUX22	INR	281 - 68
MISI	NPC	323 - 43
♦SSCF	♦THCF	
BUX23	INR	324 - 15
MISI	NPC	281 - 69
♦SSCF	♦THCF	
BUX24	INR	281 - 70
MISI	NPC	324 - 16
♦SSCF	♦THCF	
BUX25	INR	324 - 17
MISI	NPC	281 - 71
♦SSCF	♦THCF	
BUX28	INR	334 - 26
BUX29	INR	334 - 25
BUX39	INR	323 - 44

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TYPE No.	MFRS	Pg&Line
BUX39		
(cont.)	MISI	270 - 55
NPC	SSCF	
	♦THCF	
BUX40	INR	270 - 56
MISI	NPC	322 - 86
SSCF	♦THCF	
BUX41	INR	323 - 45
MISI	NPC	270 - 57
♦SSCF	♦THCF	
BUX42	INR	270 - 58
MISI	NPC	323 - 46
♦SSCF	♦THCF	
BUX43	INR	323 - 47
MISI	NPC	270 - 59
♦SSCF	♦THCF	
BUX44	INR	270 - 60
MISI	NPC	324 - 18
♦SSCF	♦THCF	
BUX45	INR	324 - 19
MISI	NPC	270 - 61
♦SSCF	♦THCF	
BUX66	♦RCAB	319 - 40
		221 - 17
BUX66A	♦RCAB	221 - 18
		319 - 41
BUX66B	♦RCAB	319 - 42
		221 - 19
BUX66C	♦RCAB	221 - 20
		319 - 43
BUX67	♦RCAB	253 - 97
		325 - 20
BUX67A	♦RCAB	325 - 21
		253 - 98
BUX67B	♦RCAB	253 - 99
		325 - 22
BUX67C	♦RCAB	325 - 23
		253-100
BUX80	♦MULB	316 - 19
♦PHIC	♦RTCF	274 - 80
	♦VALG	
BUX81	♦MULB	274 - 81
♦RTCF	♦VALG	
BUX82	♦MULB	269 - 16
♦PHIC	♦RTCF	316 - 20
	♦VALG	
BUX83	♦MULB	269 - 17
♦RTCF	♦VALG	
BUX84	♦MULB	262 - 30
♦PHIC	♦RTCF	316 - 33
	♦VALG	
BUX85	MULB	262 - 31
♦RTCF	♦VALG	
BUX86	♦MULB	316 - 57
♦PHIC	♦RTCF	253-101
	♦VALG	
BUX87	MULB	253-102
♦RTCF	♦VALG	
BUX97	♦SGAI	319 - 44
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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MMT3799	♦MOTA	124 - 1
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MMT3904	♦MOTA	153 - 1
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MMT3905	♦MOTA	124 - 2
MMT3906	♦MOTA	124 - 3
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MMT8007	♦MOTA	153 - 13
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MP110B	GPD	209 - 68
	LTE	
MP249A	♦LTE	209 - 69
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	LTE	
MP500A	GPD	211 - 48
MP501	GPD	211 - 49
	♦LTE	
MP501A	GPD	211 - 50
MP502	GPD	211 - 51
	♦LTE	
MP502A	GPD	211 - 52
MP503	♦LTE	211 - 53
MP504	GPD	211 - 54
	♦LTE	
MP504A	GPD	211 - 55
MP505	GPD	211 - 56
	♦LTE	
MP505A	GPD	211 - 57
MP506	GPD	211 - 58
	♦LTE	
MP506A	GPD	211 - 59
MP507	♦LTE	211 - 60
MP525	GPD	209 - 70
	LTE	
MP600	♦LTE	207 - 62
		327 - 76
MP600A	♦LTE	327 - 77
		207 - 63
MP601	♦LTE	207 - 64
		327 - 78
MP601A	♦LTE	327 - 79
		207 - 65
MP602	♦LTE	207 - 66
		327 - 80
MP602A	♦LTE	327 - 81
		207 - 67
MP603	♦LTE	207 - 68
		327 - 82
MP603A	♦LTE	327 - 83
		207 - 69
MP1077	♦LTE	209 - 71
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MP1530	LTE	327 - 85
		209 - 73
MP1531	LTE	209 - 74
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		209 - 75
MP1533	LTE	209 - 76
		327 - 88
MP1534	LTE	327 - 42
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MP1535	LTE	209 - 78
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MP1536	LTE	327 - 44
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MP1537	LTE	209 - 80
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MP1538	LTE	327 - 46
		209 - 81
MP1539	LTE	209 - 82
MP1540	LTE	209 - 83
MP1541	LTE	209 - 84
MP1542	LTE	209 - 85
MP1543	LTE	209 - 86
MP1544	LTE	209 - 87
MP1545	LTE	209 - 88
MP1546	LTE	209 - 89
MP1547	LTE	209 - 90
MP1548	LTE	209 - 91
MP1549	LTE	209 - 92
MP1550	LTE	209 - 93
MP1551	LTE	209 - 94
MP1552	LTE	209 - 95
MP1553	LTE	209 - 96
MP1554	LTE	209 - 97
MP1555	LTE	209 - 98
MP1556	LTE	209 - 99
MP1557	LTE	209 -100
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	♦LTE	327 - 99
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	LTE	
MP2061	GPD	207 - 75
	LTE	
MP2062	GPD	207 - 76
	LTE	
MP2063	GPD	207 - 77
	LTE	
MP2100A	GPD	209 -106
	♦LTE	327 -100
MP2100B	♦LTE	209 -107
MP2200A	GPD	209 -108
	♦LTE	327 -101
MP2200B	♦LTE	209 -109
MP2300A	GPD	209 -110
	♦LTE	327 -102
MP2300B	♦LTE	210 - 1
MP2400A	GPD	210 - 2
	♦LTE	327 -103
MP2400B	♦LTE	210 - 3
MP3611	LTE	206 -103
MP3612	LTE	206 -104
MP3613	LTE	206 -105
MP3614	LTE	206 -106
MP3615	LTE	206 -107
MP3617	LTE	206 -108
MP3618	LTE	206 -109
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GTC	LTE	
	♦MOTA	
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		288 - 2
MP3730B	♦LTE	288 - 3
		206 - 40
MP4276	LTE	211 - 61
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MP4277	LTE	329 - 23
		211 - 62
MP4278	LTE	211 - 63
		329 - 24
MP4279	LTE	329 - 25
		211 - 64
MP4280	LTE	211 - 65
		329 - 26
MP4281	LTE	329 - 27
		211 - 66
MP4282	LTE	211 - 67
		329 - 28
MP4283	LTE	329 - 29
		211 - 68
MP5435	LTE	210 - 39
		328 - 4
MP5436	LTE	328 - 5
		210 - 40
MP5437	LTE	210 - 41
		328 - 6
MP5438	LTE	328 - 7
		210 - 42
MP5439	LTE	210 - 43
		328 - 8
MP5440	LTE	328 - 9
		210 - 44
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♦MOTA	NASB	
NSC	SIX	
	TSC	
MPF103	INL	192 - 63
NASB	NSC	
	TSC	
MPF104	INL	192 - 64
NASB	NSC	
	TSC	
MPF105	INL	192 - 65
NASB	NSC	
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MPF106	♦INL	192 - 66
NASB	♦NSC	
	TSC	
MPF107	♦INL	192 - 67
NASB	♦NSC	
	TSC	
MPF108	♦MOTA	197 - 33
NASB	NSC	
SIX	TSC	
MPF109	♦MOTA	197 - 34
NASB	NSC	
SIX	TSC	
MPF110	NSC	199 - 57
MPF111	INL	192 - 68
♦MOTA	NASB	
NSC	SIX	
	TSC	
MPF112	INL	192 - 69
♦MOTA	NSC	
SIX	TSC	
MPF130	♦MOTA	198 - 37
MPF131	♦MOTA	198 - 38
MPF132	♦MOTA	198 - 39
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MPF820	♦MOTA	201 - 13
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MPF4391	♦MOTA	201 - 14
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MPF4392	♦MOTA	288 - 75
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MPF4393	♦MOTA	201 - 16
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	♦SPR	130 - 58
MPS404A	♦MOTA	130 - 59
	♦SPR	308 - 14
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♦DEF	♦FERB	162 - 60
IDI	ITT	
♦MOTA	NSC	
NTR	♦SPR	
SST	STI	
MPS706A	CEN	162 - 61
♦DEF	♦FERB	297 - 52
ITT	♦MOTA	
NTR	♦SPR	
SST	STI	
MPS706AK	♦FERB	297 - 53
		175 - 29
MPS706AL	♦FERB	175 - 30
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MPS706AM	♦FERB	297 - 55
		175 - 31
MPS706K	♦FERB	175 - 32
		297 - 56
MPS706L	♦FERB	297 - 57
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MPS706M	♦FERB	175 - 34
		297 - 58
MPS834	CEN	291 - 48
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ITT	MEHK	
♦MOTA	NSC	
NTR	SST	
	STI	
MPS835	♦MOTA	165 - 37
		292 - 55
MPS918	CEN	163 - 19
♦DEF	IDI	
♦MOTA	NPC	
NTR	♦SPR	
SST	STI	
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MPS930	♦MOTA	179 - 13
MPS930A	♦MOTA	179 - 31
MPS2222	♦FERB	180 - 48
	♦MOTA	293 - 36
MPS2222A	♦FERB	293 - 58
	♦MOTA	180 - 81
MPS2222AK	♦FERB	174 - 86
		293 - 59
MPS2222AL	♦FERB	293 - 60
		174 - 87
MPS2222AM	♦FERB	174 - 88
		293 - 61
MPS2222K	♦FERB	293 - 37
		174 - 50
MPS2222L	♦FERB	174 - 51
		293 - 38
MPS2222M	♦FERB	293 - 39
		174 - 52
MPS2369	CEN	163 - 16
♦DEF	♦FERB	290 - 11
IDI	ITT	
♦MOTA	NASB	
NPC	NTR	
♦SPR	SST	
	STI	
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		171 - 27
MPS2369L	♦FERB	171 - 28
		289 - 72
MPS2369M	♦FERB	289 - 73
		171 - 29
MPS2484	♦FERB	173 - 34
MPS2484K	♦FERB	173 - 35
MPS2484L	♦FERB	173 - 36
MPS2484M	♦FERB	173 - 37
MPS2711	CEN	161 - 98
♦DEF	♦FERB	
IDI	ITT	
NPC	NSC	
NTR	♦SPR	
SST	STI	
MPS2711K	♦FERB	171 - 30
MPS2711L	♦FERB	171 - 31
MPS2711M	♦FERB	171 - 32
MPS2712	CEN	161 - 99
♦DEF	♦FERB	
IDI	ITT	
MOTA	NPC	
NTR	♦SPR	
SST	STI	
MPS2712K	♦FERB	171 - 33
MPS2712L	♦FERB	171 - 34
MPS2712M	♦FERB	171 - 35
MPS2713	CEN	162 - 77
♦DEF	♦FERB	288 - 93
IDI	ITT	
NSC	NTR	
♦SPR	SST	
	STI	
MPS2713K	♦FERB	288 - 94
		174 - 53
MPS2713L	♦FERB	174 - 54
		288 - 95
MPS2713M	♦FERB	288 - 96
		174 - 55
MPS2714	CEN	162 - 78
♦DEF	♦FERB	288 - 97
IDI	ITT	
♦MOTA	NSC	
NTR	♦SPR	
SST	STI	
MPS2714K	♦FERB	288 - 98
		174 - 56
MPS2714L	♦FERB	174 - 57
		288 - 99
MPS2714M	♦FERB	288 -100
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MPS2716	CEN	161 -101
♦DEF	IDI	
MOTA	NPC	
NSC	NTR	
SST	STI	
MPS2907	♦FERB	140 - 42
	♦MOTA	297 - 59
MPS2907A	♦FERB	297 - 60
	♦MOTA	140 - 43
MPS2907AK	♦FERB	137 - 59
		299 -106
MPS2907AL	♦FERB	299 -107
		137 - 60
MPS2907AM	♦FERB	137 - 61
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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♦MOTA	NSC	
SST	STI	
MPS6541	CEN	162 - 11
♦DEF	NSC	
MPS6542	CEN	163 - 26
♦DEF	NASB	
NSC	SST	
	STI	
MPS6542△	♦FSC	165 - 78
MPS6543	CEN	163 - 30
♦DEF	♦MOTA	
NASB	NSC	
SST	STI	
MPS6544	CEN	162 - 12
♦DEF	♦MOTA	
NASB	NSC	
SST	STI	
MPS6545	♦MOTA	162 - 13
	STI	
MPS6546	CEN	163 - 21
♦DEF	♦MOTA	
NASB	NSC	
SST	STI	
MPS6546△	♦FSC	165 - 73
MPS6547	CEN	163 - 22
♦DEF	♦MOTA	
NASB	STI	
MPS6547△	♦FSC	165 - 74
MPS6548	CEN	163 - 23
♦DEF	♦MOTA	
NASB	NSC	
MPS6560	CEN	179 - 42
♦DEF	FSC	
IDI	MEHK	
♦MOTA	NASB	
NSC	NTR	
♦SPR	SST	
	STI	
MPS6561	CEN	179 - 43
♦DEF	FSC	
IDI	MEHK	
♦MOTA	NASB	
NSC	NTR	
♦SPR	SST	
	STI	
MPS6562	CEN	139 - 46
♦DEF	FSC	
IDI	MEHK	
♦MOTA	NASB	
NSC	NTR	
♦SPR	SST	
	STI	
MPS6563	CEN	139 - 47
♦DEF	FSC	
IDI	MEHK	
♦MOTA	NASB	
NSC	NTR	
♦SPR	SST	
	STI	
MPS6564	IDI	162 - 14
MEHK	NSC	
SPR	SST	
MPS6565	CEN	162 - 66
♦DEF	♦FERB	
IDI	ITT	
MEHK	♦MOTA	
NASB	NPC	
NSC	NTR	
♦SPR	SST	
	STI	
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MPS6565L	♦FERB	173-103
MPS6565M	♦FERB	173-104
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♦DEF	♦FERB	
IDI	ITT	
♦MOTA	NASB	
NPC	NSC	
NTR	♦SPR	
SST	STI	
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MPS6566L	♦FERB	173-106
MPS6566M	♦FERB	173-107
MPS6567	CEN	162 - 15
♦DEF	♦MOTA	
NASB	NSC	
SST	STI	
MPS6568	CEN	163 - 2
♦DEF	♦MOTA	
	STI	
MPS6568A	CEN	163 - 3
♦DEF	♦MOTA	
NASB	NSC	
SST	STI	
MPS6568A△	♦FSC	165 - 51
MPS6569	CEN	162-106
♦DEF	♦MOTA	
NSC	SST	
	STI	
MPS6569A	♦FSC	165 - 38
MPS6570	CEN	162-107
♦DEF	♦MOTA	
NSC	SST	
	STI	
MPS6571	CEN	162 - 40
♦DEF	♦MOTA	
NASB	NPC	
NSC	NTR	
♦SPR	SST	
	STI	
MPS6573	♦MOTA	162 - 68
	NPC	

TYPE No.	MFRS	Pg&Line
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MPS6575	♦MOTA	162 - 70
	NPC	
MPS6576	♦MOTA	162 - 71
	NPC	
MPS6579	♦MOTA	131 - 84
	NPC	
MPS6580	NPC	130 - 19
MPS6591	ITT	162 - 25
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MPS6595	♦MOTA	180 - 95
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MPS8000	♦MOTA	179 - 14
	NPC	
MPS8001	♦MOTA	164 - 14
MPS8097	♦MOTA	164 - 66
MPS8098	♦MOTA	164 - 44
MPS8099	♦MOTA	164 - 45
MPS8598	♦MOTA	131 - 26
MPS8599	♦MOTA	131 - 27
MPSA05	CEN	179 - 77
♦DEF	♦FERB	
♦FSC	IDI	
ITT	MEHK	
♦MOTA	NASB	
NPC	NSC	
NTR	♦SPR	
SST	STI	
MPSA05K	♦FERB	181-103
MPSA05L	♦FERB	181-104
MPSA05M	♦FERB	181-105
MPSA06	CEN	179 - 78
♦DEF	♦FSC	
IDI	MEHK	
♦MOTA	NASB	
NPC	NSC	
NTR	SST	
	STI	
MPSA09	CEN	162 - 26
♦DEF	IDI	
MEHK	♦MOTA	
NASB	NPC	
NSC	NTR	
♦SPR	SST	
	STI	
MPSA10	IDI	156 - 83
ITT	MEHK	
MOTA	NSC	
NTR	SPR	
	SST	
MPSA12	♦FSC	330 - 96
MEHK	♦MOTA	
NPC	NSC	
♦SPR	SST	
MPSA13	♦FSC	330 - 90
MEHK	♦MOTA	
NPC	NSC	
♦SPR	SST	
MPSA14	♦FSC	330 - 95
MEHK	♦MOTA	
NPC	NSC	
♦SPR	SST	
MPSA16	♦MOTA	164 - 15
	STI	
MPSA17	♦MOTA	164 - 1
	STI	
MPSA18	♦FSC	164 - 46
♦MOTA	NPC	
MPSA20	CEN	187 - 19
♦DEF	♦FERB	
♦FSC	IDI	
ITT	MEHK	
♦MOTA	NASB	
NPC	NSC	
NTR	♦SPR	
SST	STI	
MPSA43	♦FSC	179 - 36
IDI	MEHK	
♦MOTA	NPC	
NSC	SST	
	STI	
MPSA55	CEN	139 - 72
♦DEF	♦FSC	
IDI	ITT	
MEHK	♦MOTA	
NASB	NPC	
NSC	NTR	
♦SPR	SST	
	STI	
MPSA56	CEN	139 - 73
♦DEF	♦FSC	
IDI	MEHK	
♦MOTA	NPC	
NSC	NTR	
SST	STI	
MPSA62	♦MOTA	330 - 76
MPSA63	♦MOTA	330 - 72
MPSA64	♦MOTA	330 - 74
MPSA65	NPC	331 - 9
	NSC	
MPSA66	NPC	331 - 10
NSC	SPE	
MPSA70	CEN	142 - 56
♦DEF	♦FSC	
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TYPE No.	MFRS	Pg&Line
MPSA70		
(cont)	IDI	
ITT	MEHK	
♦MOTA	NASB	
NPC	NSC	
NTR	♦SPR	
SST	STI	
MPSA92	♦FSC	139 - 44
♦MOTA	NPC	
	STI	
MPSA93	♦FSC	139 - 45
♦MOTA	NPC	
	STI	
MPSD01	♦MOTA	179 - 22
	NPC	
MPSD02	♦MOTA	163 - 95
	NPC	
MPSD03	♦MOTA	163 - 96
	NPC	
MPSD04	♦MOTA	331 - 7
	NPC	
MPSD05	♦MOTA	164 - 16
	NPC	
MPSD06	♦MOTA	164 - 17
	NPC	
MPSD51	♦MOTA	139 - 41
	NPC	
MPSD52	♦MOTA	130 - 89
	NPC	
MPSD53	♦MOTA	130 - 90
	NPC	
MPSD54	♦MOTA	331 - 8
	NPC	
MPSD55	♦MOTA	130-110
	NPC	
MPSD56	♦MOTA	131 - 1
	NPC	
MPSH02	CEN	165 - 52
♦DEF	♦FSC	
♦MOTA	NASB	
	STI	
MPSH04	CEN	158 - 82
♦DEF	♦MOTA	
NASB	STI	
MPSH05	CEN	158 - 83
♦DEF	♦MOTA	
NASB	STI	
MPSH07	CEN	165 - 56
♦DEF	♦FSC	
♦MOTA	NASB	
	STI	
MPSH08	CEN	165 - 57
♦DEF	♦FSC	
♦MOTA	NASB	
	STI	
MPSH10	CEN	165 - 75
♦DEF	♦FSC	
♦MOTA	NASB	
NSC	SST	
	STI	
MPSH11	CEN	165 - 76
♦DEF	♦FSC	
♦MOTA	NASB	
NSC	STI	
MPSH17	♦MOTA	180 - 94
MPSH19	♦MOTA	162-108
NASB	STI	
MPSH19△	♦FSC	174 - 89
MPSH20	♦FSC	180 - 86
♦MOTA	NASB	
NSC	STI	
MPSH24	CEN	180 - 87
♦DEF	♦FSC	
♦MOTA	NASB	
NSC	STI	
MPSH30	♦FSC	165 - 39
♦MOTA	NASB	
NSC	STI	
MPSH31	♦MOTA	162-109
NASB	NSC	
	STI	
MPSH32	CEN	163 - 15
♦DEF	♦MOTA	
NASB	NSC	
	STI	
MPSH32△	♦FSC	174 - 90
MPSH33	♦MOTA	161 - 54
MPSH34	CEN	180 - 92
♦DEF	♦FSC	
♦MOTA	NASB	
NSC	STI	
MPSH37	♦MOTA	162-110
NASB	NSC	
	STI	
MPSH54	CEN	128 - 2
♦DEF	♦MOTA	
NASB	STI	
MPSH55	CEN	128 - 3
♦DEF	♦MOTA	
NASB	STI	
MPSH81	♦MOTA	131 - 97
	NPC	
MPSH83	♦MOTA	140 - 65
	STI	
MPSH85	♦MOTA	130 - 26
MPSK20	ITT	157 - 87
♦MOTA	NTR	
	♦SPR	
MPSK21	ITT	157 - 88
♦MOTA	NTR	
	♦SPR	
MPSK22	ITT	157 - 89
♦MOTA	NTR	
	♦SPR	

TYPE No.	MFRS	Pg&Line
MPSK70	♦MOTA	127 - 21
NTR	♦SPR	
MPSK71	♦MOTA	127 - 22
NTR	♦SPR	
MPSK72	♦MOTA	127 - 23
NTR	♦SPR	
MPSL01	IDI	179 - 44
♦MOTA	NPC	
NSC	SST	
	STI	
MPSL07	STI	130 - 28
		292 - 82
MPSL08	STI	292 - 83
		130 - 29
MPSL51	IDI	129-104
♦MOTA	NPC	
NSC	SST	
	STI	
MPSU01	♦MOTA	245 - 72
	SST	
MPSU01A	♦MOTA	245 - 73
MPSU02	♦MOTA	242 - 75
MPSU03	♦MOTA	240-106
MPSU04	♦MOTA	240-107
MPSU05	♦MOTA	240-108
	SST	
MPSU06	♦MOTA	246 - 54
MPSU07	♦MOTA	246 - 55
MPSU10	♦MOTA	246 - 56
MPSU31	♦MOTA	232-100
MPSU45	♦MOTA	331 - 83
MPSU51	♦MOTA	218 - 32
MPSU51A	♦MOTA	218 - 33
MPSU52	♦MOTA	217 - 32
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MRF222	♦MOTA	265 - 66
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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PN2222	NSC	178 - 33
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PN2905	♦NTLB	129 - 18
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PN4250A	NSC	138 - 19
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PT601☑	♦TRW	247 - 32
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RCP702C	♦RCA	304 - 98
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SDM3301	♦SOD	319 - 78
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SDM3302	♦SOD	331 - 57
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SDM3401	♦SOD	319 - 84
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SDT413	♦SOD	276 - 84
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SOD	SSI	
SDT3922	♦PPC	284- 93
SOD	SSI	
SDT3923	PPC	284- 94
SOD	SSI	
SDT4301	AMC	242- 25
GSE	SSI	
SDT4302	AMC	242- 26
GSE	SSI	
SDT4303	AMC	242- 27
GSE	SSI	
SDT4304	AMC	242- 28
GSE	SSI	
SDT4305	AMC	242- 29
GSE	SSI	
SDT4306	AMC	242- 30
GSE	SSI	
SDT4307	AMC	242- 31
GSE	SSI	
SDT4308	AMC	242- 32
GSE	SSI	
SDT4309	AMC	242- 33
GSE	SSI	
SDT4310	AMC	242- 34
GSE	SSI	
SDT4311	AMC	242- 35
GSE	SSI	
SDT4312	AMC	242- 36
GSE	SSI	
SDT4451	AMC	240- 24
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT4452	AMC	240- 25
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT4453	AMC	240- 26
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT4454	AMC	240- 27
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT4455	AMC	240- 28
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT4456	AMC	240- 29
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT4483	AMC	240- 30
KER	♦PPC	
SOD	SSI	
SDT4901	KER	254- 19
SOD	SSI	
SDT4902	KER	254- 20
SOD	SSI	
SDT4903	KER	254- 21
SOD	SSI	
SDT4904	KER	254- 22
SOD	SSI	
SDT4905	KER	254- 23
SOD	SSI	
SDT4921	KER	240- 31
SOD	SSI	
SDT4922	KER	240- 32
SOD	SSI	
SDT4923	KER	240- 33
SOD	SSI	
SDT4924	KER	240- 34
SOD	SSI	
SDT4925	KER	240- 35
SOD	SSI	
SDT4941	SOD	259- 42
	SSI	
SDT4942	SOD	259- 43
	SSI	
SDT4943	SOD	259- 44
	SSI	
SDT4944	SOD	259- 45
	SSI	
SDT4945	SOD	259- 46
	SSI	
SDT5001	AMC	240- 36
KER	SOD	
SSI	UNI	
SDT5002	AMC	240- 37
KER	SOD	
SSI	UNI	
SDT5003	AMC	240- 38
KER	SOD	
SSI	UNI	
SDT5004	AMC	240- 39
KER	SOD	
SSI	UNI	
SDT5005	AMC	240- 40
KER	SOD	
SSI	UNI	
SDT5006	AMC	240- 41
KER	SOD	
SSI	UNI	
SDT5007	AMC	240- 42
KER	SOD	
SSI	UNI	
SDT5008	AMC	240- 43
KER	SOD	
SSI	UNI	
SDT5009	AMC	240- 44
KER	SOD	
SSI	UNI	
SDT5010	AMC	240- 45
KER	SOD	
SSI	UNI	
SDT5011	AMC	240- 46
KER	SOD	
SSI	UNI	
SDT5012	AMC	240- 47
KER	SOD	
SSI	UNI	
SDT5013	AMC	240- 48
KER	SOD	
SSI	UNI	
SDT5014	AMC	240- 49
KER	SOD	
SSI	UNI	
SDT5015	AMC	240- 50
KER	SOD	
SSI	UNI	
SDT5051	AMC	240- 51
KER	SOD	
	SSI	
SDT5052	AMC	240- 52
KER	SOD	
	SSI	
SDT5053	AMC	240- 53
KER	SOD	
	SSI	
SDT5054	AMC	240- 54
KER	SOD	
	SSI	
SDT5055	AMC	240- 55
KER	SOD	
	SSI	
SDT5056	KER	240- 56
SOD	SSI	
SDT5501	AMC	240- 57
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5502	AMC	240- 58
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5503	AMC	240- 59
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5504	AMC	240- 60
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5505	AMC	240- 61
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5506	AMC	240- 62
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5507	AMC	240- 63
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5508	AMC	240- 64
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5509	AMC	240- 65
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5510	AMC	240- 66
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5511	AMC	240- 67
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5512	AMC	240- 68
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5513	AMC	240- 69
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5514	AMC	240- 70
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5515	AMC	240- 71
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5551	AMC	240- 72
KER	♦PPC	
♦SOD	♦SSI	
	UNI	
SDT5552	AMC	240- 73
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT5553	AMC	240- 74
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT5554	AMC	240- 75
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT5555	AMC	240- 76
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT5556	KER	240- 77
♦PPC	♦SOD	
SSI	UNI	
SDT5810	SSI	284- 95
SDT5811	SSI	284- 96
SDT5812	SSI	284- 97
SDT5813	SSI	284- 98
SDT5815	SSI	284- 99
SDT5816	SSI	284-100
SDT5817	SSI	284-101
SDT5818	SSI	284-102
SDT5820	SSI	284-103
SDT5821	SSI	284-104
SDT5822	SSI	284-105
SDT5823	SSI	284-106
SDT5825	SSI	284-107
SDT5826	SSI	284-108
SDT5827	SSI	284-109
SDT5828	SSI	284-110
SDT5830	SSI	285- 1
SDT5831	SSI	285- 2
SDT5832	SSI	285- 3
SDT5833	SSI	285- 4
SDT5835	SSI	285- 5
SDT5836	SSI	285- 6
SDT5837	SSI	285- 7
SDT5838	SSI	285- 8
SDT5840	SSI	286- 26
SDT5841	SSI	286- 27
SDT5842	SSI	286- 28
SDT5843	SSI	286- 29
SDT5845	SSI	286- 30
SDT5846	SSI	286- 31
SDT5847	SSI	286- 32
SDT5848	SSI	286- 33
SDT5850	SSI	286- 34
SDT5851	SSI	286- 35
SDT5852	SSI	286- 36
SDT5853	SSI	286- 37
SDT5855	SSI	286- 38
SDT5856	SSI	286- 39
SDT5857	SSI	286- 40
SDT5858	SSI	286- 41
SDT5860	SSI	286- 42
SDT5861	SSI	286- 43
SDT5862	SSI	286- 44
SDT5863	SSI	286- 45
SDT5865	♦PPC	286- 46
	SSI	
SDT5866	♦PPC	286- 47
	SSI	
SDT5867	♦PPC	286- 48
	SSI	
SDT5868	♦PPC	286- 49
	SSI	
SDT5901	AMC	252- 14
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5902	AMC	252- 15
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5903	AMC	252- 16
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5904	AMC	252- 17
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5905	AMC	252- 18
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5906	AMC	252- 19
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5907	AMC	252- 20
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5908	AMC	252- 21
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5909	AMC	252- 22
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5910	AMC	252- 23
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5911	AMC	252- 24
GSE	KER	

cont.next col.

TYPE No.	MFRS	Pg&Line
SDT5911		
(cont.)	♦PPC	
SOD	SSI	
SDT5912	AMC	252- 25
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5913	AMC	252- 26
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5914	AMC	252- 27
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5915	AMC	252- 28
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT5951	AMC	252- 40
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT5952	AMC	252- 41
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT5953	AMC	252- 42
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT5954	AMC	252- 29
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT5955	AMC	252- 30
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT5956	AMC	252- 31
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT6001	♦AMC	257- 2
♦PPC	SSI	
SDT6011	♦AMC	257- 3
♦PPC	SSI	
SDT6012	♦AMC	257- 4
♦PPC	SSI	
SDT6013	♦AMC	257- 5
♦PPC	SSI	
SDT6014	♦AMC	257- 6
♦PPC	SSI	
SDT6015	♦AMC	257- 7
♦PPC	SSI	
SDT6016	♦AMC	257- 8
♦PPC	SSI	
SDT6031	♦AMC	257- 9
♦PPC	SSI	
SDT6101	KER	240- 78
	SSI	300- 54
SDT6102	KER	300- 55
	SSI	240- 79
SDT6103	KER	240- 80
	SSI	300- 56
SDT6104	KER	300- 57
	SSI	244- 82
SDT6105	KER	244- 83
	SSI	300- 58
SDT6106	KER	300- 59
	SSI	244- 84
SDT6110	KER	242- 82
	SSI	302- 87
SDT6111	KER	302- 88
	SSI	242- 83
SDT6112	KER	242- 84
	SSI	302- 89
SDT6113	KER	302- 90
	SSI	249- 38
SDT6114	KER	249- 39
	SSI	302- 91
SDT6115	KER	302- 92
	SSI	249- 40
SDT6308	AMC	260- 25
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT6309	AMC	260- 26
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT6310	AMC	260- 27
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT6311	AMC	260- 28
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT6312	AMC	260- 29
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT6313	AMC	260- 30
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT6314	AMC	260- 31
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT6315	AMC	260- 32

cont.next col.

TYPE No.	MFRS	Pg&Line
SDT6315		
(cont)	GSE	
KER	♦PPC	
SOD	SSI	
SDT6316	AMC	260- 33
GSE	KER	
♦PPC	SOD	
	SSI	
SDT6408	AMC	260- 34
GSE	KER	
♦PPC	SOD	
	SSI	
SDT6409	AMC	260- 35
GSE	KER	
♦PPC	SOD	
	SSI	
SDT6410	AMC	260- 36
GSE	KER	
♦PPC	SOD	
	SSI	
SDT6411	AMC	260- 37
GSE	KER	
♦PPC	SOD	
	SSI	
SDT6412	AMC	260- 38
GSE	KER	
♦PPC	SOD	
	SSI	
SDT6413	AMC	260- 39
GSE	KER	
♦PPC	SOD	
	SSI	
SDT6414	AMC	260- 40
GSE	KER	
♦PPC	SOD	
	SSI	
SDT6415	AMC	260- 41
GSE	KER	
♦PPC	SOD	
	SSI	
SDT6416	AMC	260- 42
GSE	KER	
♦PPC	SOD	
	SSI	
SDT6901	♦AMC	254- 24
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT6902	AMC	254- 25
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT6903	AMC	254- 26
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT6904	AMC	254- 27
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT6905	♦AMC	254- 28
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT6906	AMC	254- 29
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT6907	AMC	254- 30
KER	♦PPC	
♦SOD	SSI	
	UNI	
SDT6908	KER	254- 31
♦PPC	♦SOD	
SSI	UNI	
SDT7011	AMC	264-107
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT7012	AMC	264-108
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT7013	AMC	264-109
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT7014	AMC	264-110
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT7015	AMC	265- 1
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT7016	AMC	265- 2
GSE	KER	
♦PPC	SOD	
SSI	UNI	
SDT7017	AMC	265- 3
GSE	KER	
♦PPC	SOD	
	SSI	
SDT7018	AMC	265- 4
GSE	KER	
♦PPC	SOD	
	SSI	
SDT7019	AMC	265- 5
GSE	KER	
♦PPC	SOD	
	SSI	
SDT7140	AMC	265- 6
GSE	KER	

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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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♦PPC	SSI	
SDT9804	♦AMC	272-99
♦PPC	SSI	
SDT12201	♦SOD	277-25
SDT12202	♦SOD	277-26
SDT12203	♦SOD	277-27
SDT12301	♦SOD	278-94
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SDT12302	♦SOD	311-30
		278-95
SDT12303	♦SOD	278-96
		311-31
SDT13201	♦SOD	277-28
SDT13202	♦SOD	277-29
SDT13203	♦SOD	277-30
SDT13204	♦SOD	277-31
SDT13205	♦SOD	277-32
SDT13301	♦SOD	278-97
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SDT13302	♦SOD	309-97
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SDT13303	♦SOD	278-99
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SDT13304	♦SOD	309-99
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SDT13305	♦SOD	278-101
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SDT14304	♦SOD	315-12
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SDT14305	♦SOD	278-103
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SDT55405	♦SOD	286-24
SDT55407	♦SOD	286-25
SDT55456	♦SOD	286-72
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SDT55460	♦SOD	322-106
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SDT55462	♦SOD	286-74
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SDT55464	♦SOD	322-108
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SDT55470	♦SOD	286-76
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SDT55472	♦SOD	323-105
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SDT55474	♦SOD	286-78
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SDT55476	♦SOD	322-59
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SDT55503	♦SOD	286-18
SDT55504	♦SOD	286-19
SDT55505	♦SOD	286-20
SDT55507	♦SOD	286-21
SDT55550	♦SOD	286-80
SDT55552	♦SOD	286-81
SDT55554	♦SOD	286-82
SDT55556	♦SOD	286-83
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SDT55560	♦SOD	322-110
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SDT55903	♦SOD	286-50
SDT55904	♦SOD	286-51
SDT55905	♦SOD	286-52
SDT55907	♦SOD	286-53
SDT55950	♦SOD	286-88
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SDT55960	♦SOD	323-2
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SDT85301	♦SOD	269-82
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SDT85503	♦SOD	242-51
SDT85504	♦SOD	242-52
SDT85505	♦SOD	242-53
SDT85506	♦SOD	242-54
SDT85507	♦SOD	242-55
SDT85508	♦SOD	242-56
SDT85509	♦SOD	242-57
SDT85510	♦SOD	242-58
SDT85601	♦SOD	262-53
SDT85602	♦SOD	262-54
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SDT85606	♦SOD	262-58
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SDT85608	♦SOD	262-60
SDT85609	♦SOD	262-61
SDT85610	♦SOD	262-62
SDT96301	♦SOD	277-33
SDT96302	♦SOD	277-34
SDT96303	♦SOD	277-35
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SDT96401	♦SOD	278-104
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SDT96403	♦SOD	278-106
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SDT96405	♦SOD	278-108
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SDT96406	♦SOD	278-109
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SDT96501	♦SOD	282-92
SDT96502	♦SOD	282-93
SDT96503	♦SOD	282-94
SDT96504	♦SOD	282-95
SDT96505	♦SOD	282-96
SDT96506	♦SOD	282-97
SDT96901	♦SOD	285-28
SDT96902	♦SOD	285-29
SDT96903	♦SOD	285-30
SDT96904	♦SOD	285-31
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SDT96905	♦SOD	285-32
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SDT96906	♦SOD	285-33
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SE5021	CEN	147-4
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SE5022	CEN	146-108
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SE5023	CEN	146-109
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SE5024	CEN	146-110
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SE5051	CEN	147-2
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SE5052	CEN	147-8
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SE5055	CEN	147-9
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SE6002	CEN	156-67
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SE6020	CEN	161-7
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SE7056	CEN	240-95
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SE8012	STI	174-96
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SE8041	STI	185-53
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SE9301	CEN	334-39
	♦FSC	GTC
SE9302	CEN	334-40
	♦FSC	GTC
SE9303	CEN	336-3
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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	GT20					25	25 Ø	25		10uØ	5.0Ø	1.0m	42	500nb		15	35p	A	TO5
2	2N1664†		5.0M	2.6m	#J	45	40	30	200m	10u	6.0Ø	1.0m	120 ☑	900n☑b	39 ☑		25p☑		TO5
3	CK766	2.0m	10.M		#A	30			200m	1.0u			45				12		
4	CK766A	2.0m	10.M		#A	30			200m	1 0u			45				12		
5	2N231	9.0m*	20M*		*J	4.5	4.5		3.0m	3.0u	3.0	500mØ	19 △	5.0u☑b	100 ☑		5.5p☑	S	TO24 F
6	2N232	9.0m*	30M*		*J	4.5	4.5		3.0m	6.0uØ	3.0Ø	500uØ	9.0 △	5.0u☑b	100 ☑		6.0p☑	S	TO24 F
7#	2SA216	15m	120M		*J	15		.50	2.0m	5.0uØ	6.0Ø	1.0m	40				1.0p	G	TO1
8♦	2N1471	18m	3.0M△	3.3m	#J	12	12	7.0	200m	5 0uØ	6.0Ø	1.0mØ	160				18p	A△	TO5 A
9	JAN2N220	20m		434u	#S	30		12		12u	4.0	500u	40 △	800n☑b	65 ☑	15 ☑	50p☑	Ø	TO1 A
10	OC60	20m		666u	ØJ	7.0	3.0	7 0	5 0m	1.5uØ	2.0Ø	3.8mØ	75					A	R19
11#	OC57	20m*	10k△	666u	ØJ	7.0	3.0	7.0	10m		.50Ø	250u	35	60u	2.9k	17	60p	A	R19
12	OC58	20m*	10k△	666u	ØJ	7.0	3.0	7.0	10m		.50Ø	250u	55	80u	4.0k	17	60p	A	R19
13	2N175	20m	850k	3.3m	ØJ	10		10	2.0m	12u	4.0Ø	500uØ	65				36p	Ø	TO40 A
14	2N220	20m	850k	3.3m	ØJ	10		10	2.0m	12u	4.0Ø	500uØ	65	25u	3.5k	944	36p	AØ	TO1 A
15	OC59	20m	2.2M	666u	ØJ	7.0	3.0	7.0	5.0m	3.0uØ	.50Ø	250u	80	100u	5.1k	17	60p	A	R19
16	2N344	20m†	50M*	666u	*J	5.0	5.0		5.0m	3.0u	3.0Ø	500uØ	22	5.0ub	100		6.0p	SΔ	TO24 F
17	2N345	20m†	50M*	666u	*J	5.0	5.0		5.0m	3.0u	3.0Ø	500uØ	66	5.0ub	100		6.0p	SΔ	TO24 F
18#	2SA156	20m	55M		*J	15		.50	4.0m	5.0uØ	6.0	1.0m	50	200nb	40	2.0	1.5p	G	TO1
19#	2SA160	20m	55M		*J	15		.50	4.0m	5.0uØ	6.0	1.0m	60	200nb	40	2.0	1.5p	G	TO1
20	2N346	20m†	75M*	666u	*J	5.0	5.0		5.0m	3.0u	3.0Ø	500uØ	10 △	5.0ub	100		6.0p	SΔ	TO24 F
21	2N299	20m*	110M*		#J	5.0	4.5	5.0	5.0m	3.0u	3.0	500m		2.0ub	65		2.8p	S	TO30 F
22	2N1499†	25m*		625u	#S	20	15 Ø	2.0	50m	100u	25Ø	10mØ	35 †				1.5p	AD	TO9 A
23	JAN2N240	25m	25M§△	416u	#J	6.0	6.0	6.0	15m	10u	3.0Ø	500uØ	16 †△				6p☑	△	R143 F
24	2N128	25m	28M§△		#S	10	4.5 Ø	10	5.0m	3.0u	3.0Ø	500uØ	19 △	1.5ub	75		5.0p☑	D	TO24 F
25	2N1122†	25m*	40M§△	625u	#J	12	11 Ø		50m	5.0uØ	.25Ø	10mØ	25 †△				6p☑	MA☑	TO24 A
26	2N1122A†	25m*	40M§△	625u	#J	15	14 Ø		50m	5.0uØ	.25Ø	10mØ	25 †△				6p☑	MA☑	TO24 A
27	JAN2N128	25m	45M*△	417u	#A	10		10		4.0uØ	3.0Ø	500uØ	19 △	4.0u☑b	90 ☑		5.0p☑		TO24 F
28	2N393†	25m*	50.M§	455u	#J	6.0	6.0	6.0	50m	5.0u	3.0	.50m	155				3.5p	MA☑	TO24 F
29	2N1427†	25m*	60M*	625u	#J	6.0	6.0 Ø	6.0	50m	5.0u	3.0	500u	120	1.0ub	55	20	3.5p	ME☑	TO24 A
30	2N2451	25m*	80M§△	454u	#S	6.0	5.0	6.0	50m	5.0u	3.0Ø	500uØ	40 △				6.0p☑	△	TO24 A
31	2N503	25m*	168M§△		#J	20	20 §	.50		100u	10Ø	2.0m	45				1.0p	DAØ	T09 A
32	2N502A	25m	220M§	455u	#J	30	30 Ø	.50		100u	10Ø	2.0m	45				1.0p	DAØ	T09 A
33	2N252	30m			*A		16		5.0m	10u							1.0p	GD	O3e
34	2N308	30m			*A	20			5.0m	10u							1.0p	GD	O3e
35	2N309	30m			*A	20			5 0m	10u							1.0p	GD	O3e
36	2N310	30m			*A	30			5.0m	10u							1.0p	GD	O3e
37	2N1753	30m*		769u	#S	30	18	50	50m	15uØ	4.0Ø	.10mØ	50 †△				2.5p☑		TO1
38	2N129	30m	30M*	500u	#J		4.5	10	5.0m	3.0u	3.0Ø	500uØ	20	2.0ub	70		4.0p	S	TO24
39	2N240	30m	30M△*	500u	#J		6.0		15m	3.0uØ	3.0	500uØ	30	1.5ub	66		2.9p	SΔ	TO24 F
40	2N1108	30mØ	35M		#J	16		1.0	5.0m	10uØ							1.5p		O3f A
41	2N1109	30mØ	35M		#J	16		1.0	5.0m	10uØ							1.5p		O3f A
42	2N1110	30mØ	35M		#J	16		1.0	5.0m	10uØ							1.5p		O3f A
43	2N1111	30mØ	35M		#J	20		1.0	5.0m	10uØ							1.1p		O3f A
44	2N1111A	30mØ	35.M		#J	20			5.0m	10uØ	6.0	.50mØ	29				1.5p	GD	TO22
45	2N1111B	30mØ	35.M		#J	20			5.0m	10uØ	6.0	.50mØ	29				1.5p	GD	TO22
46	2N1107	30mØ	40M		#J	16		1 0	5.0m	10uØ							1.5p		O3f A
47	2N504	30m*	50M*△	750u	#S	35	25	1.0	50m	10uØ	12Ø	1.0m	16 △	1.0u☑b	40 ☑		2.5p☑		TO1 A
48	2N499	30m*	170M§	750u	#J	30	18	.50	50m	100u							1.3p	DA	TO1 A
49	2N588	30m*	250M*	750u	#J	15	15 Ø	.50	50m	15u								DAØ	TO30 A
50	2N5044	30m	2.5G§☑	1.2m	♦S	15	7.0	.30	30m	6.0u	5.0Ø	3.0mØ	150 †☑				1p$	Ø	TO72 G
51	2N5043	30m	3.0G§☑	1.2m	♦S	15	7.0	.30	30m	6.0u	5.0Ø	3.0mØ	150 †☑				1p$	Ø	TO72 G
52	2N768	35m		467m	#S	12	10 Ø		100m										TO18 A
53	2N77	35m	700k		#A	25			15m	10uØ								AØ	TO2 A
54	TR77	35m	.70M		*A	25			15m	10uØ	4.0Ø	.70mØ	55				40p	A	
55	2N105	35m	750k		#A	25			15m	5.0uØ								AØ	TO2 A
56	TR105	35m	.75M		*A	25			15m	5.0uØ	4.0Ø	.70mØ	55				17p	A	
57	TR139	35m	4.5M		ØA	16		12	15m	6.0uØ	9.0Ø	.50mØ	45				9.5p	A	
58	TR218	35m	4.5M		ØA	16		12	15m	6.0uØ	9.0Ø	500uØ	45				9.5p	A	
59	2N139	35m	13.MØ		ØA	16	12	.50	15m	10u	9.0Ø	1.0mØ	48 ☑		1.0k		9.5p	AΔ	TO40 A
60	2N218	35m	13.MØ		ØA	16	12	.50	15m	10u	9.0Ø	1.0mØ	48 ☑		1.0k		9.5p	AΔ	TO1 A
61	JAN2N393	35m	30M§△	476u	#J	10	6.0	10	50m	5.0uØ	3.0Ø	500uØ	40 △				4.0p☑		R143 F
62♦	JAN2N1411	35m	30M§△	460u	#J	8.0		8.0	50m	5.0uØ	1.0Ø	50mØ	20 †△#				6.0p☑	△	R143 F
63	2N769	35m	100M§△	467u	#S	12	7.0	2.0	100m	3.0uØ	.50Ø	20mØ	25 †△				3.0p☑	△	TO18 A
64	2N267	35m§	132MØ		ØA	-35		1.0	10m	16uØ			45 §				1.7p	A	
65	CK891	40m†			*A	12			50m	5.5u	1.5	.50m	160					FA†	R18a
66	CK892	40m†			*A	12			50m	5.5u	1.5	.50m	160					FAØ	R18a
67	2N623	40m	90.M	1.0m	*J	30		1.0		10u	6.0Ø	2.0mØ	35				3.5p	DΔ	
68	2N1785	45m	50.M*	1.3m	#S	10	10 Ø	1.0	50m	10uØ	6.0Ø	1.0mØ	40 †△	2.0u	40		3p☑	ME	TO9 A
69	2N1786	45m	50.M*	1.3m	#S	10	10 Ø	.50	50m	10uØ	6.0Ø	1.0mØ	15 †△	2.0u	40		3p☑	ME	TO9 A
70	2N1787	45m	50.M*	1.3m	#S	15	15 Ø	.50	50m	10uØ	6.0Ø	1.0mØ	25 †△	2.0u	40		3p☑	ME	TO9 A
71	2N34	50m			*A	25			8.0m		6.0Ø	1.0m	40 †						O3j AE
72	2N36	50m			Ø	20			8.0m		6.0	1.0m	45						O14 A
73	2N37	50m			Ø	20			8.0m		6.0	1.0m	30						TO22 A
74	2N38	50m			Ø	20			8.0m		6.0	1.0m	15						TO22 A
75	2N108	50m			Ø	20			15m		6.0	1.0m							R108 A
76	2N238	50m			ØA	20				20u									O3g A
77	2N500	50m		833u	#J	20	15	.50		100u							2.5p☑	DA	TO1 A
78	2N1754†	50m		830u	#S	13	13 Ø		100m	5.0uØ	.25Ø	10mØ	20 †△				3.0p☑		TO9 A
79#	2SB303	50m			ØJ	30		25	20m	14u								AØ	TO1
80	TR109	50m			*A	25			70m	10u	1.0Ø	50mØ	70					A	
81	TR217	50m			*A	25			70m	10u	1.0Ø	50mØ	70					A	
82	2N34A	50m	.60M		Ø	25			8.0m		6.0	1.0m	60						O3h
83	2N506	50m	600k△	1.0m	#J	40			100m	125u	.50Ø	10mØ	25 †△					A	TO22 F
84	TRM34	50m	600k	1.0m	ØJ	40			50m	5.0uØ	6.0	1.0m	40				15p		
85	2N591	50m	700k	2.8m	ØA	32	32		20m	7.0uØ	12Ø	2.0m	70					A	TO1 A
86	TR35	50m	800k	1.0m	ØJ	40			50m	5.0uØ	6.0	1.0m	40				18p		
87	2N107	50m	1.0M	5.0m	*	12			10m	10u	5.0	1.0m	19	1.0ub	32	3.0	40p	D	R31 A
88	2N1265/5	50m	1.0M	833u	#J	10		10	100m		6.0Ø	1.0m	75					A	TO5
89	2N535	50m	2.0M		#J	20	20	20	20m	10uØ	5.0Ø	1.0mØ	100	1.0u☑b	50 ☑	4.0		AØ	TO23 F
90	2N535A	50m	2.0M		#J	20	20	20	20m	10uØ	5.0Ø	1.0mØ	100	1.0u☑b	50 ☑	4.0		AØ	TO23 F
91	2N535B	50m	2.0M		#J	20	20	20	20m	10uØ	5.0Ø	1.0mØ	100	1 0u☑b	50 ☑	4.0		AØ	TO23 F
92	2N536	50m	2.0M		#J	20	20	20	30m	10uØ	1.0Ø	30mØ	150 †					A	TO23 F
93	TR760	50m	5.0M		Ø	15				1.0u	4.5	1.0m	40				14		
94	2N398	50m	20M†△		*A	105	105	50		14uØ	.35Ø	5.0mØ	60					A	T09 A
95#	2SA321	50m	25M	2.0m	ØJ	20		.50	10m	12u	6.0Ø	1.0m	40				3.0p	D	TO44
96#	2SA322	50m	30M	2.0m	ØJ	20		.50	10m	12u	6.0Ø	1.0m	40				3.0p	D	TO44
97	TR763	50m	30.M		ØJ	6.0				1.0u	4.5	1.0m	200				14p	A	
98#	2SA323	50m	35M	2.0m	ØJ	20		.50	10m	12u	6.0	1.0m	37db at-1.5MHz				3.0p	D	TO44
99#	2SA219	50m	40.M		ØJ	20		.50	10m	12u	6.0	1.0m	50				2.5p	D	TO44
100#	2SA285	50m	40.M		ØJ	18		.50	5.0m	15u	6.0Ø	1.0m	70				2.0p	D	TO44
101#	2SA221	50m	50.M		ØJ	20		.50	10m	12u	6.0	1.0m	75				2.5p	D	TO44
102#	2SA324	50m	60M	2.0m	ØJ	20		.50	10m	12u	6.0	1.0m	24db at-10.7MHz				3.0p	D	TO44
103#	2SA223	50m	64.M		ØJ	20		.50	10m	12u	6.0	1.0m	50				2.5p	D	TO44
104#	2SA222	50m	70M	2.0m	ØJ	20		.50	10m	12u	6.0	1.0m	130				2.5p	D	TO44
105#	AF115	50m*	75M§	1.6m	ØJ	20	20	1.0	10m	8.0uØ	6.0Ø	1.0mØ	150					ADØ	TO7
106#	AF116	50m*	75M§	1.6m	ØJ	20	20	1.0	10m	8.0uØ	6.0Ø	1.0mØ	150					ADØ	TO7
107#	2SA225	50m	100M	2.0m	ØJ	20		.50	10m	12u							3.0p	D	TO44
108	JAN2N499	50m	120M§△	666u	#S	30	18	.50	50m	100u	9.0Ø	1.0m	10 △				2.5p☑		R139 A
109#	2SA377	50m	230M§△	1.0m	ØJ		20	.40	5.0m	13uØ	6.0	1.0m	100				1.0p	AD	TO72 G
110#	2SA420	50m	300M§△	588u	#J	20	20 Ø	.50	5.0m	10uØ	6.0Ø	2.0m	20				1.5p☑	ME	TO17

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1#	AF127	67m	75M§	1.3m	ØJ	20	20 §	.50	11m	25uØ	6.0Ø	1.0m	150					ADØ	TO72	
2	TR12	70m			#J	25		25		15uØ	4.5	1.0m	15					B		
3	TR13	70m			#	25				15uØ	4.5	1.0m	28							
4	TR14	70m			#	25				15uØ	4.5	1.0m	45							
5	TR88	70m			#	25				15uØ	4.5	1.0m	65							
6	TRM13	70m			#	25				15uØ	4.5	1.0m	28							
7	TRM14	70m			#	25				15uØ	4.5	1.0m	45							
8	TRM81	70m			#	25				15uØ	4.5	1.0m	65							
9	TR18	70m	.70M		#	25				15uØ	4.5	1.0m	45							
10	TR87	70m	1.0M	2.0m	#J	25				15uØ	4.5	1.0m	28				50			
11♦	2N825†	70m	8.0M	1.2m	#J	30	20	20	400m	25u	25Ø	1.0mΔ	20 †Δ	b		100	20pØ	FA	R180a	AØ
12♦	2N826†	70m	8.0M	1.2m	#J	30	20	20	400m	25u	25Ø	1.0mΔ	20 †Δ	b		100	20pØ	FA	R218a	AØ
13	2N311	75m			#J	15	15	6.0		60u†	5.0Ø	10m	25 Δ					AΔ	R157	A
14	2N502B	75m		1.0m	#S	30	30 Ø	.50	50m	5.0uØ	10Ø	2.0m	20 Δ				1.6pØ	Ø	TO9	A
15	2N695†	75m		1.0m	#J	15	15	3.5	50m	3.0u	.30Ø	10mØ	25 †Δ				5.0pØ		TO17	G
16	JAN2N695†	75m		1.0m	#J	15	15	3.5	50m	3.0uØ	.30Ø	10mØ	25 †Δ				5.0pØ		TO17	G
17	2N700	75m		1.0m	#J	25	20	.20	50m	2.0u	6.0	2.0m	4.0 Δ	b	30 Ø		1.5pØ		TO72	G
18	2N700A	75m		1.0m	#J	25	25	.20	50m	2.0uØ	6.0Ø	2.0m	4.0 Δ						TO72	G
19	2N801†	75m		1.2m	#S	30	18	20	400m	4.0uØ	.25Ø	1.0mΔ	30 †Δ				20pØ		R180	A
20	2N802†	75m		1.2m	#S	30	18	20	400m	4.0uØ	.25Ø	1.0mΔ	30 †Δ				20pØ		R181	B§
21	2N803†	75m		1.2m	#S	30	15	20	400m	4.0uØ	.25Ø	1.0mΔ	40 †Δ				20pØ		R180	A
22	2N804†	75m		1.2m	#S	30	15	20	400m	4.0uØ	.25Ø	1.0mΔ	40 †Δ				20pØ		R181	B§
23	2N805†	75m		1.2m	#S	30	12	20	400m	4.0uØ	.25Ø	1.0mΔ	60 †Δ				20pØ		R180	A
24	2N806†	75m		1.2m	#S	30	12	20	400m	4.0uØ	.25Ø	1.0mΔ	60 †Δ				20pØ		R181	B§
25	2N1158A	75m		1.0m	#S	20	20 Ø	.50	100m	5.0uØ	10	3.0m	9.0 Δ				2.8p		TO9	A
26#	ASY63N	75m					26	20		4.0u	.10	15m	80				17pØ	A	TO5	A
27	2N206	75m	780k	3 3m	#S	30		12	50m	10u	5.0	1.0m	47	550nb	33	3.2	35p	A	TO1	A
28#	NKT11	75m	1.0MΔ	1.5m	ØJ	18	10	12	100m	5.0uØ	4.5Ø	1.0mØ	90 Δ				13pØ		TO1	A
29	2N265	75m	1.5M	2.0m	*J		25 §		50m	16u	5.0	1.0m	115	500nb	29	4.0	40p	A	R32	
30	2N809	75m	3.0MΔ	1.2m	#S	30	15	20	200m	5.0uØ	6.0	1.0m	30 †Δ				20pØ		R180	A
31	2N810	75m	3.0MΔ	1.2m	#S	30	15	20	200m	5.0uØ	6.0	1.0m	30 †Δ				20pØ		R181	B§
32#	OC41N	75m	3.0M§Δ	1.7m		16	15	12	50m	5.0u	0.0	10m	40				14p	A	TO1	A
33	CK83	75m	5.5M	1.3m	#J	12			20m	10u	6.0Ø	1.0m	60				11p	FA	R18a	
34#	OC42N	75m	5.5M§Δ	1.7m		16	15	12	50m	5.0u	0.0	10m	40				14p	A	TO1	A
35#	NKT12	75m	7.5MΔ	1.5m	ØJ	18	10	12	100m	5.0uØ	4.5Ø	1.0mØ	45 Δ				13pØ		TO1	A
36	2N815†	75m	8.0M	1.3m	#J	25	20	15	200m	10u	.75Ø	200mØ	80 †				14p	FA	R180	
37	2N816†	75m	8.0M	1.3m	#J	25	20	15	200m	10u	.75Ø	200mØ	80 †				14p	FA	R181	
38#	OC45N	75m	9.0M	1.2m	ØJ	15	15	12	10m	2.0uØ	6.0Ø	1.0mØ	25 Δ				12pØ	A	TO1	A
39	CK86	75m	12.M	1.3m	#J	12			10m	10u	6.0Ø	1.0m	200				10p	FA	R18a	
40♦	2N807†	75m	18.M	1.3m	#J	25	14 §	12	100m	5.0uØ	.20Ø	20mØ	60 †					FAΔ	R180a	AØ
41♦	2N808†	75m	18.M	1.3m	#J	25	14 §	12	100m	5.0uØ	.20Ø	20mØ	60 †					FAΔ	R218a	AØ
42#	OC44N	75m	30MØ	1.2m	ØJ	15	15	12	10m	2.0uØ	6.0Ø	1.0mØ	40 Δ				13pØ	A	TO1	A
43	2N1749	75m	80M§Δ	1.0m	#S	40	40 Ø	1.0	10m	10uØ	6.0Ø	1.0mØ	30 Δ	1.0ub	40 Ø		2.5pØ		TO9	A
44	2N2199	75m	120M§Δ	1.0m	#S	15	10	.50	100m	5.0uØ	10Ø	3.0m	20 Δ				2.8pØ		TO9	A
45	2N2200	75m	120M§Δ	1.0m	#S	15	10	.50	100m	5.0uØ	10Ø	3.0m	70 Ø				2.8pØ		TO9	A
46	2N1499B†	75m	150M§Δ	1.0m	#S	30	20	2.0	100m	3.0uØ	.30Ø	10mØ	40 †Δ				3pØ		TO9	A
47♦	2N2797†	75m	150M§Δ	1.0m	#S	40	20	2.5	100m		.30Ø	10mØ	50 †Δ				3.5pØ	D	TO9	A
48#	2SA240	75m	200M§	1.3m	#J	20	18 Ø	.20	5.0m	10uØ	6.0	1.0m	120 Ø				1.5pØ	EM	TO17	G
49#	2SA239	75m	300M	1.3m	#J	20		.20	5.0m	10uØ	6.0	2.0m	10				1.5p	ME	TO17	G
50	2N2416	75m	400M§Δ	1.0m	#S	15	10	.30	20m	5.0uØ	6.0Ø	2.0mØ	10 Δ				2.0pØ		TO72	G
51	JAN2N2996	75m	400M§Δ	1.0m	#S	15	10	.30	50m	5.0uØ	6.0Ø	4.0mØ	35 Δ				3.0p	Ø	TO72	G
52	JAN2N2997	75m	400M§Δ	1.0m	#S	30	15	.30	50m	5.0uØ	12Ø	4.0mØ	50 Δ				1.0pØ	Ø	TO72	G
53	2N2795†	75m	450M§	1.0m	#S	25	15	2.5	100m		.30Ø	10mØ	100 †				2.5p	D	TO18	A
54	2N2796†	75m	450M§	1.0m	#S	20	12	2.0	100m		.30Ø	10mØ	60 †				2.5p	D	TO18	A
55	2N2415	75m	500M§Δ	1.0m	#S	15	10	.30	20m	5.0uØ	6.0Ø	2.0mØ	15 Δ				2.0pØ		TO72	G
56	2N2996	75m	550M§	1.0m	#S	15	10	.30	50m	100u	6.0Ø	4.0mØ	200				3.0p	DMØ	TO72	G
57	JAN2N502A	75m	600M§Ø	1.0m	#S	30	30 Ø	.50		10u	10Ø	2.0m	15 Δ				1.6pØ	Ø	R179t	A
58	JAN2N502B	75m	600M§Ø	1.0m	#S	30	30 Ø	.50		10u	10Ø	2.0m	25 Δ				1.6pØ	Ø	R179t	A
59	2N2997	75m	600M§	1.0m	#S	30	15	.30	50m	100u	12Ø	4.0mØ	200				1.8p	DMØ	TO72	G
60	JAN2N700A	75m	800M§Ø	1.0m	#J	25	25	.30	50m	2.0uØ	6.0	2.0m	4.0 Δ	b	30		1.4pØ		TO72	G
61	2N2998	75m	900M§	1.0m	#S	15	12	.30	20m	100u	6.0Ø	3.0mØ	200				1.7p	DMØ	TO72	G
62	2N3267	75m	900M§Δ	1.0m	#S	15	8.0	.20	20m	5.0uØ	6.0Ø	3.0mØ	15 Δ				1.7pØ	Ø	TO72	G
63	2N2363	75m	1.1G*	1.0m	#J	30	20	50	50m	5.0uØ	6.0Ø	2.0mØ	10				2.0p	MEØ	TO72	
64	2N2999	75m	1.6G§	1.0m	#S	15	10	.20	20m	100u	6.0Ø	3.0mØ	100 †				1.7p	DMØ	TO72	G
65	2N1631	80m			#S	34		.50	10m	16uØ	6.0Ø	1.0m	40 †Δ						TO40	AE
66	2N1632	80m		1.3m	#S	34		.50	10m	16uØ	6.0Ø	1.0m	40 Δ						TO1	A
67	2N1633	80m		1.3m	#S	34		.50	10m	16uØ	6.0Ø	1.0m	27 Δ						TO40	AE
68	2N1634	80m		1.3m	#S	34		.50	10m	16uØ	6.0Ø	1.0m	27 Δ						TO1	A
69	2N1635	80m		1.3m	#S	34		.50	10m	16uØ	6.0Ø	1.0m	40 Δ						TO40	AE
70	2N1636	80m		1.3m	#S	34		.50	10m	16uØ	6.0Ø	1.0m	40 Δ						TO1	A
71	2N1637	80m		1.3m	#S	34		1.5	10m	5 0uØ	6 0Ø	1.0m	40 Δ						TO1	A
72	2N1638	80m		1.3m	#S	34		1.5	10m	7.0uØ	6.0Ø	1.0m	70 Δ						TO1	A
73	2N1639	80m		1.3m	#S	34		1.5	10m	7.0uØ	6.0Ø	1.0m	40 Δ						TO1	A
74#	2SB74	80m			#J	16		.50	15m	10u	6.0Ø	1 0m	48					A	TO1	
75	CK64	80m	.80M	1.3m	#J	45	29 Ø	12	100m	5.0uØ	6.0Ø	1.0m	25	18u	900	3.5		FA†	R18a	
76	CK64A	80m	.80M	1.3m	#J	45	29 Ø	12	100m	5.0uØ	6.0Ø	1.0m	25	18u	900	3.5		FA†	R18b	
77	CK64B	80m	.80M	1.3m	#A	45					6.0Ø	1.0mØ	22 †					A	R180	
78	CK64C	80m	.80M	1.3m	#A	45					6.0Ø	1.0mØ	22 †					A	R181	
79	2N1266	80m	1.0M		#J		10				6.0Ø	1.0mØ	48				11p		TO22	A
80#	2SB46	80m	1.0M	1.6m	ØJ	25		12	150m	14u	6.0	1.0m	150	200nb	30	2.5	35p	A	TO1	
81	CK65	80m	1.0M	1.3m	#J	45	24	12	100m	5.0uØ	6.0Ø	1.0m	45	25u	1.8k	5.0		A	R18a	
82	CK65A	80m	1.0M	1.3m	#J	45	24	12	100m	5.0uØ	6.0Ø	1.0m	45	25u	1.8k	5.0		A	R18b	
83	CK65B	80m	1.0M	1.3m	#A	45					6.0Ø	1.0mØ	45 †					A	R180	
84	CK65C	80m	1.0M	1.3m	#A	45					6.0Ø	1.0mØ	45 †					A	R181	
85	SK3008-RT	80m	1.0M§			34	15	.50	10m				150 †					D	TO1	A
86	CK66	80m	1.2M	1.3m	#J	35	20	12	100m	5.0uØ	6.0Ø	1.0m	90	36u	3.6k	7.0		FA	R18a	
87	CK66A	80m	1.2M	1.3m	#J	35	20	12	100m	5.0uØ	6.0Ø	1.0m	90	36u	3.6k	7.0		FA†	R18b	
88	CK66B	80m	1.2M	1.3m	#A	35					6.0Ø	1.0mØ	90 †					A	R180	
89	CK66C	80m	1.2M	1.3m	#A	35					6.0Ø	1.0mØ	90 †					A	R181	
90	CK67	80m	1.5M	1.3m	#J	35	15	12	100m	5.0uØ	6.0Ø	1.0m	180	50u	7.2k	95		FA†	R18a	
91	CK67A	80m	1.5M	1.3m	#J	35	15	12	100m	5.0uØ	6.0Ø	1.0m	180	50u	7.2k	95		FA†	R18b	
92	CK67B	80m	1.5M	1.3m	#A	35					6.0Ø	1.0mØ	180 †					A	R180	
93	CK67C	80m	1.5M	1.3m	#A	35					6.0Ø	1.0mØ	180 †					A	R181	
94#	AC107N	80m	2.0M	1.6m	ØJ	15	15 §		10m#		5.0Ø	300uØ	60					AØ	TO1	A
95#	OC47N	80m	4.5M§Δ	1.6m	ØJ	20	20 Ø		100m	3.0uØ	0.0	15mØ	50 †Δ					AΔ	TO1	A
96	2N1673	80m	5.0M	1.3m	#J	35		.50	10m	50uØ	9.0Ø	1.0m	20 Δ				3pØ	DØ	TO33	G
97	2N409	80m	6.8M	1.5m	ØA	13		.50	15m	10uØ	9.0Ø	1.0m	48				9.5p	A	TO40	A
98	2N410	80m	6.8M	1.5m	ØA	13		.50	15m	10uØ	9.0	1.0m	48				9.5p	A	TO1	A
99	2N581	80m	8.0M		ØA	18	15	10	100m	6.0uØ	30Ø	20mØ	30 †				12p	AΔ	TO5	A
100	2N583	80m	8.0M		ØA	18	15	10	100m	6.0uØ	.30Ø	20mØ	30 †				12p	AΔ	TO5	A
101#	2SA12	80m	8.0M			16		.50	15m	4.0u	6.0Ø	1.0mØ	70				11p	A	TO1	
102	2N140	80m	10.M		ØA	16	9.0	.50	15m	10u	9.0Ø	.60mØ	75 Δ				9.5p	AΔ	TO40	A
103	2N219	80m	10.M		ØA	16	9.0	.50	15m	10u	9.0Ø	.60mØ	75 Δ				9.5p	AΔ	TO44	A
104	2N411	80m	16M§	1.5m	ØA	13		.50	15m	10u	9.0Ø	600u	75				9.5p	A	TO40	A
105	2N412	80m	16M§	1.5m	ØA	13		.50	15m	10u	9.0Ø	600u	75				9.5p	A	TO1	A
106	2N274	80m	30M	1.8m	ØA	35		.50	10m	8.0uØ	12Ø	1.0m	60				1.7p	A	TO44	A
107	2N372	80m	30M		ØA	24		.50	10m	10u							30p$	AD	TO7	H
108#	2SA110	80m	30.M		#S	20			10m	20uØ	9.0	1.0mØ	60				1.7p	D	TO44	
109	40262	80m	30.M§	1.3m	#J	50		.50	10m	12uØ	6.0Ø	1.0mØ	150				3.4p$	DA	TO1	A
110	40488	80m	30.M§	1.3m	#A	12		.50	10m	12uØ	6.0Ø	1.0mØ	80				3.7p$	D	TO1	A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1#	2SA203	100m	5.0M		ØJ	15		5 0	15m	10uØ	6.0Ø	1.0m	30				11p	A	TO1	
2	GT760	100m	5.0M	2.0m	#S	15		15		5.0u	4.5Ø	1.0mØ	40				14p	A		
3#	GT42	100m	6.0M	2.0m	ØJ	15		15	100m	15u	4.5	1.0m	60	25u	1.6k	3.0	15p	AΔ	R12	
4#	GT46	100m	6.0M	2 0m	ØJ	25		15	100m	15u	4.5	1.0m	60	25u	1.6k	3.0	15p	AΔ	R12	
5#	GT100	100m	6.0M	2.0m	ØJ	9.0		9.0	100m		4.5	1.0m	60	25u	1.6k	3.0		AΔ		
6	2N136	100m	6.5M	1.7m	#J	20			50m	5.0u	5.0	1.0m	40				14p	A	R31	
7	2N521	100m	8.0MΔ	1.6m	#S	15	10	10		2.0uØ	4.5Ø	1.0m	70	700nb	30	10	14p	A	TO5	A
8#	2SA201	100m	8.0M		ØJ	15		5.0	15m	10uØ	6.0Ø	1.0m	50				11p	A	TO1	
9#	GT43	100m	9.0M	2.0m	ØJ	15		15	100m	15u	4.5	1.0m	100	30u	2.7k	3.0	15p	AΔ	R12	
10#	GT47	100m	9.0M	2.0m	ØJ	25		15	100m	15u	4.5	1.0m	100	30u	2.7k	3.0	15p	AΔ	R12	
11	2N137	100m	10.M	1.7m	#J	10			50m	5.0u	5.0	1.0m	60				14p	A	R31	
12	2N487	100m	10M§Δ	1.6m	#S	18		3.0	25m	15uØ	6.0Ø	1.0mØ	20 †Δ				14pØ		TO5	A
13	GT761	100m	10.M	2.0m	#S	15				5.0u	4.5Ø	1.0mØ	70				14p	A		
14	2N316†	100m	12M	2.0m	#S	20	10	20	200m	2.0uØ	.20Ø	200mØ	30				14p	A	TO5	A
15#	2SA202	100m	12.M		ØJ	15		5.0	15m	10uØ	6.0Ø	1.0m	55				11p	A	TO1	
16	2N522	100m	15MΔ	1.6m	#S	15	8.0	10		2.0uØ	4.5Ø	1.0m	120	700nb	30	14	14p	A	TO5	A
17	GT1607	100m	18.M	1.7m	#S	10				25u	5.0Ø	1.0m	60 Δ				14p	A	TO9	
18	2N317†	100m	20M	2.0m	#S	20	6.0	20	200m	2.0uØ	.25Ø	400mØ	30				14p	A	TO5	A
19	GT762	100m	20.M	2.0m	#S	15				5.0u	4.5Ø	1.0mØ	120				14p	A		
20	2N523	100m	21MΔ	1.6m	#S	15	6.0	10		2.0uØ	4.5Ø	1.0m	200	700nb	30	20	14p	A	TO5	A
21	GT764	100m	25.M	2.0m	#S	20			200m	5.0uØ	4.5	1.0m	200					A		
22	GT763	100m	30.M	2.0m	#S	15				5.0u	4.5Ø	1.0mØ	200				14p	A		
23	2N2089	100m	44M§Δ	1.7m	#S	20	20	1.0	11m	8.0uØ	6.0Ø	1.0m	40 Δ				4.0pØ		TO7	H
24#	2N2090	100m	44M§Δ	1.7m	#S	20	20	1.0	11m	8.0uØ	6.0Ø	1.0m	40 Δ				4pØ		TO7	H
25	2N2092	100m	44M§Δ	1 7m	#S	20	20	1.0	11m	8.0uØ	6.0Ø	1.0m	40 Δ				2.5p†Ø	Ø	TO7	H
26#	2SA69	100m	70M	2.0m	ØJ	20		.50	10m	13uØ	6.0Ø	1.0m	150				4.0p	AD	TO7	
27#	2SA70	100m	70M	2.0m	ØJ	20		.50	10m	13uØ	6.0Ø	1.0m	150				3.5p	AD	TO7	
28#	2G417	100m	90.M§	1.7m	#J	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0mØ	50 Δ				3.5pØ	AD†	TO18	
29#	2G413	100m	100M§	1.5m	#J	40		1.0	25m	50u	6.0	1.0m	100				2.5p	AD	TO18	
30	2N2273	100m	100M§Δ	1.3m	#S	25	15	1.0	100m	10uØ	10Ø	1.0mØ	20 Δ				3.5pØ		TO18	AØ
31#	2SA71	100m	100M	2.0m	ØJ	20		.50	10m	13uØ	6.0	1.0m	150				2.5p	AD	TO7	
32#	2G414	100m	120M§	1.7m	#J	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0mØ	50 Δ				2.3p	AD†	TO18	
33#	2G415	100m	120M§	1.7m	#J	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0mØ	50 Δ				2.3p	AD†	TO18	
34#	2G416	100m	120M§	1.7m	#J	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0mØ	50 Δ				3.5pØ	AD†	TO18	
35	2N3588	100m	200M§Δ	1.7m	#S	25		.65	10m	5.0uØ	6.0Ø	1.0mØ	20 †Δ						R176a	
36	2N976†	100m	250M§Δ	1.3m	#S	15	10	2.0	100m	3.0uØ	.50Ø	20mØ	30 †Δ				3.0pØ		TO18	A
37	JAN2N2273	100m	250M§Δ	1.3m	#S	25	25 Ø	1.0		10uØ	10Ø	1.0uØ	20 †Δ				4.0pØ		TO18	AØ
38	2N3283	100m	250M§Δ	1.3m	#J	25	25 Ø	.50	50m	10uØ	10Ø	3.0mØ	10 Δ				1.5pØ	Ø	R176	G
39	2N3284	100m	250M§Δ	1.3m	#J	25	25 Ø	.50	50m	10uØ	10Ø	3.0mØ	10 Δ				1.5pØ	Ø	R176	G
40	2N3285	100m	250M§Δ	1.3m	#J	20	20 Ø	.50	50m	10uØ	10Ø	3.0mØ	5.0 Δ				2pØ		TO72	GØ
41	2N3286	100m	250M§Δ	1.3m	#J	20	20 Ø	.50	50m	10uØ	10Ø	3.0mØ	5.0 Δ				2pØ		TO72	GØ
42	40268	100m	250M§Δ	1.3m	#J	25	15 Ø	1.0	100m	10uØ	10Ø	1.0mØ	20 †Δ		250		3.5pØ	DM	TO18	
43	HEP3-RT	100m♦	250M§		#J	20	20 Ø$	.50	50m$	15u$	10		85 †						TO72	G
44	PTC107-RT	100m	300M§			33	22	3.3	50m	50uØ	5.0Ø	10m	140 †						TO72	G
45#	2G101	100m	320M§	1.7m	#J	15	15	1.0	20m	10u	5.0Ø	2.0m	20				3.5p	MEØ	TO5	
46	2N2717	100m	390M	22m	ØJ	25	25		15m	8.0uØ	10Ø	3.0m	30 †Δ				1.8p	Δ	TO18	A
47#	2G102	100m	400M§	1.7m	#J	15	15	1.0	20m	10u	5.0	2.0m	20				3.5p	ME	TO5	
48	2N3127	100m	400M§Δ	1.3m	#S	25	20	.75	50m	5.0uØ	10Ø	3.0mØ	125 Ø				1.2pØ	Ø	TO72	G
49	JAN2N3127	100m	400M§Δ	1.3m	#J	25	20	.75	50m	5.0uØ	10Ø	3.0uØ	20 Δ				1 2pØ	Ø	TO72	G
50	2N3281	100m	550M§Δ	1.3m	#J	30	15	.50	50m	5.0uØ	10Ø	3.0mØ	10 Δ				1.2pØ	Ø	R176	G
51	2N3282	100m	550M§Δ	1.3m	#J	30	15	.50	50m	5.0uØ	10Ø	3.0mØ	10 Δ				1.2pØ	Ø	R176	G
52	2N3279	100m	600M§Δ	1.3m	#J	30	20	1.0	50m	5.0uØ	10Ø	3.0mØ	10 Δ				1pØ	Ø	R176	G
53	2N3280	100m	600M§Δ	1 3m	#J	30	20	1 0	50m	5.0uØ	10Ø	3.0mØ	10 Δ				1pØ	Ø	R176	G
54♦#	AF379	100m*	1.2G§	2.2m	#J		13	.30	20m	15u	8.0Ø	8.0mØ	80 †				600f	PL	W49	A
55♦	2N130A	102m	700k	1.6m	#J	45	40	12	100m	15uØ	6.0Ø	1.0m	26	17u	900	3.5		FA	O16	A
56♦	2N131A	102m	800k	1.6m	#J	45	30	12	100m	15uØ	6.0Ø	1.0m	45	18u	1.4k	4.3		FA	O16	A
57♦	2N133A	102m	800k	1.6m	#J	35	20	12	100m	15uØ	6.0Ø	1.0m	50	19u	2.5k	5.5		FA	O16	A
58#	AFY16	112m*	550M§	1.3m	ØJ	30	25	.50	10m	3.0u	12Ø	1.5mØ	40 †					MEØ	TO72	
59	2N605	120m		2.0m	#S	15	15			10uØ	5.0Ø	1.0mØ	40	2.0ub			7.0pØ	D	TO5	A
60	2N606	120m		2.0m	#S	15	15			10uØ	5.0Ø	1.0mØ	60	2.0ub			7.0pØ	D	TO5	A
61	2N607	120m		2.0m	#S	15	15			10uØ	5.0Ø	1.0mØ	80	2.0ub			7.0pØ	D	TO5	A
62	2N608	120m		2.0m	#S	15	15			10uØ	5.0Ø	1.0mØ	120	2.0ub			7.0pØ	D	TO5	A
63	2N1285	120m		16m	#S	40	40 #	2.5	10m	12uØ	12Ø	1.5mØ	30 †Δ				3.0pØ		TO33	G
64	2N1450†	120m		2.0m	#S	30		1.0	100m	10uØ	1.0Ø	10mØ	20 †Δ					AD	TO9	
65	JAN2N1450M†	120m		2.0m	#S	30	20	1.0	100m	10uØ	1.0Ø	10mØ	20 †Δ						R179f	A
66	2N2208	120m		1.6m	#S	40	10	.50	10m	50u	12Ø	1.5m	30 Δ				3.0pØ		TO44	AØ
67	2N2953	120m#		2.6m	#S	30	25 §	25	150m	5.0uØ	10Ø	10mØ	200 Δ						TO1	A
68#	2SB459	120m				30	18 §	2.5	50m	12u	6.0Ø	1.0m	180	78u	5.2k	1.1		A	TO1	
69	SWT1224	120m	30m	1.6m	ØJ	40	40 §	.50	10m	12uØ	12Ø	1.5mØ	20 Δ				3.0p	D	TO12	G
70	SWT1225	120m	100m	1.6m	ØJ	40	40 §	.50	10m	12uØ	12Ø	1.5mØ	20 Δ				3.0p	D	TO12	G
71	2N564	120m	800k	2.0m	#S	30	25	10	300m	5.0uØ	5.0Ø	1.0mØ	25	2.0ub	35	2.5	30p	A	TO5	A
72	2N566	120m	1.0M	2.0m	#S	30	25	10	300m	5.0uØ	5.0Ø	1.0mØ	55	2.0ub	30	3.5	30p	A	TO5	A
73	2N568	120m	1.5M	2.0m	#S	30	25	10	300m	5.0uØ	5 0Ø	1.0mØ	100	2.0ub	30	4.0	30p	A	TO5	A
74	TR34	120m	1.6MΔ	2.0m	#J	40		10	150m	20u	6.0	1.0m	15				15p		TO5	
75	2N570	120m	2.0M	2.0m	#S	30	20	10	300m	5.0uØ	5.0Ø	1 0mØ	150	2.0ub	30	5.0	30p	A	TO5	A
76	2N572	120m	3.0M	2.0m	#S	30	10	10	300m	5.0uØ	5.0Ø	1.0mØ	200	2.0ub	30	10	30p	A	TO5	A
77	2N269	120m	4.0MΔ	2.8m	ØA	20	20	9.0	100m	20u	.30	20mØ	40				20p	AΔ	TO1	A
78	2N2613	120m	4.0MΔ	2.6m	#S	30	25 §	25	50m	5.0uØ	4.0Ø	500mØ	120 Δ					Ø	TO1	A
79	2N2614	120m	4.0MΔ	2.6m	#S	40	35 §	25	50m	5 0uØ	6.0Ø	1 0mØ	100 Δ				12pØ		TO1	A
80	2N578†	120m	5.0M		ØA	20	15	12	400m	5.0uØ	.30Ø	400mØ	15 †					A	TO5	A
81	2N1319	120m	6 0M		#	20		20	400m	6.0u	.30	400m	30 †				20p		TO5	
82#	2SB486	120m	7.0M§	2.0m	#J	25	20 §	12	50m	6.0uØ	6.0Ø	1.0m	200	56u	6.5k	9.0	6.5p	AØ	TO1	A
83	2N579†	120m	8.0M		ØA	20	15	12	400m	5.0uØ	.30Ø	400mØ	30 †					A	TO5	A
84	2SA538	120m	8.0M	2.3m	ØJ	25		12	50m	50u	6.0Ø	1.0m	70				20pØ	A	TO1	
85	2N1670	120m	10MΔ	2 0m	#J	100		3.0		7.0uØ	.50	10mØ	15 †Δ				5.0p		TO9	F
86	40263	120m#	10M	2.6m	#J	20	18 §	2.5	50m	12u	6.0Ø	1.0mØ	160					A	TO1	A
87	40359	120m#	10.M	2.7m	#A	20	18 §	2.5	50m	12uØ	6.0Ø	1.0mØ	100					A	TO1	A
88	40395	120m#	10M	2.6m	#J	20	18 §	20	50m	12u	6.0Ø	1.0mØ	250 Ø						TO1	A
89	40490	120m#Ø	10.M	1.6m	#A	20	18	2.5	20m	12u	6.0Ø	1.0mØ	300					A	TO1	A
90	2N602A	120m	12M§Δ			35	25	1.5		5.0uØ	1.0Ø	500uΔ	80 †Ø	2.0uØb			7.0pØ	DΔ	TO9	A
91	2N603A	120m	12M§Δ			30	20	2.0		5.0uØ	1.0Ø	500uΔ	100 †Ø	2.0uØb			5.0pØ	DΔ	TO9	A
92	2N604A	120m	12M§Δ			30	20	2.5		5.0uØ	1.0Ø	500uΔ	120 †Ø	2.0uØb			6.0pØ	DΔ	TO9	A
93	TR269	120m	12.M		ØA	25		12	100m	20u	.30	20mØ	40				20p	AΔ		
94	2N580†	120m	15M		ØA	20	15	12	400m	5.0uØ	.30Ø	400mØ	45 †					A	TO5	A
95	2N582	120m	18M		ØA	25	14	12	100m	5.0uØ	.20Ø	20mØ	60 †					AΔ	TO5	A
96	2N584	120m	18M		ØA	25	14	12	100m	5.0uØ	.20Ø	20mØ	60 †					AΔ	TO1	A
97	2N602	120m	20M	2.0m	#S	20	20	1.0		8.0uØ	1.0Ø	500uØ	20 †Δ	500nb	33	3.0	4.0p	DΔ	TO5	A
98	2N1065	120m	20MΔ	2.0m	#S	40	20	1.0		8.0uØ	1.0Ø	500mΔ	20 †Δ				7.0pØ		TO9	A
99	JAN2N384	120m	25M§Δ	1.6m	#S	40	20	.50	10m	50u	12Ø	1.5m	20 Δ				3.0pØ		TO72	G
100♦	2N794	120m	25M§Δ	2.0m	#S	13	12 §	1 0	100m	3 0uØ	.30Ø	10mØ	30 †Δ				12pØ	Δ	TO18	AØ
101	2N1678	120m	25MΔ	2.0m	#J	60	60	4.0		5.0uØ	.25Ø	20mØ	25 †Δ	2.0uØb			5.0pØ	DΔ	TO9	A
102	2N1224	120m	30.M	1.6m	#A	40	40 §	.50	10m	12uØ	12Ø	1.5m	60				2.0p	D	TO12	G
103	JAN2N1224	120m	30M§Δ	1.6m	#S	40		50	10m	20u	12Ø	1.5mØ	30 Δ				3.0pØ		TO33	GØ
104	2N1226	120m	30.M	1.6m	#A	60	60 §	.50	10m	12uØ	10Ø	1.5m	60				2.0p	D	TO33	G
105	2N1395	120m	30.M	1.6m	#A	40	40 §	.50	10m	12uØ	12Ø	1.5m	90				2.0p	D	TO33	G
106	40004	120m	30M	1.6m	ØA	40	40 §	.50	10m	15u	9.0Ø	1.0mØ	80				2.0p	D	TO44	
107	SWT1224L	120m	30M	1.6m	ØJ	40	40 §	.50	10m	12uØ	12Ø	1.5mØ	20 Δ				3.0p	D	TO33	G
108♦	2N795	120m	35M§Δ	2.0m	#S	13	12 §	4.0	100m	3.0uØ	.30Ø	10mØ	30 †Δ				12pØ	Δ	TO18	AØ
109	2N603	120m	40M	2.0m	#S	30	20	1.0		8.0uØ	1.0Ø	500uØ	30 †Δ	400nb	30	4.0	3.0p	DΔ	TO5	A
110	JAN2N604†	120m	50M§Δ	2.0m	#S	30	20	2.0		8 0uØ	1.0Ø	500uØ	40 †Δ#	2.0uØb			5.0pØ		R179f	A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG
1#	2SB78	150m			#J	12		2 5	70m	14u	1 5Ø	50m	70 †					A	TO1	
2#	2SB156	150m		2.5m	#J	16		2.5	300m	14u	4.0Ø	1.0m	45					A	TO1	A
3#	2SB185	150m			ØJ	25		25	50m	15u	1.5Ø	30m	45					A	TO1	
4#	2SB186	150m			ØJ	25		25	50m	15u	1 5Ø	30m	170					A	TO1	
5#	2SB187	150m			ØJ	25		25	50m	15u	1 5Ø	30m	100					A	TO1	
6#	2SB188	150m			ØJ	25		25	50m	15u								A	TO1	
7	GT34HV	150m		2.0m	#S	50		10		25u	5.0Ø	1.0m	18	500nb	40	3.0	35p	A		
8	GT34N	150m		2.0m	#S	100		10	200m	450u	4 5Ø	1.0m	18	500nb	40	4.0		AΔ	TO5	A
9	GT74	150m		2.0m	#S	25		10		25u	5.0Ø	1.0m	75	500nb	40	5.0	35	A	TO5	A
10	GT75	150m		2 0m	#S	25		10		25u	5.0Ø	1.0mØ	150	500nb	40	8.0	35p	A	TO5	
11	GT81	150m		2.0m	#S	25		10		25u	5.0Ø	1.0m	75	500nb	40	5.0	35	A	TO5	A
12	GT82	150m		2.0m	#S	25		10		25u	5.0Ø	1.0m	150	500nb	40	8.0	35	A	TO5	
13	GT222	150m		2 0m	#S	12			200m	20u	5.0Ø	1.0m	20	500nb	40		35	A	TO5	
14	GT2694	150m		2.5m	#J	25	15	10		25u	5.0Ø	1.0m	80	5.0ub			15p	FA	TO5	
15	GT2696	150m		2.5m	#J	25	15	10		25u	5.0Ø	1.0m	70	5.0ub			15p	FA	TO5	
16	GT2883	150m		2.5m	#J	9.0	6.0 Ø	9.0		50u	6.0Ø	1.0m	50				20p	FA	TO5	
17	GT2885	150m		2.5m	#J	9.0	6.0 Ø	7.0		50u	6.0Ø	1.0m	200				20p	FA	TO5	
18	GT2887	150m		2.5m	#J	9.0	6.0 Ø	7.0		50u	6.0Ø	1.0m	250				20p	FA	TO5	
19▼	HSE1300	150m		2.5m	#J	13		.50	100m#	4.0uØ	3.0Ø	10mØ	20 Δ					D	TO5	A
20▼	HSE1301	150m		2.5m	#J	13	12	1.0	100m#	4.0uØ	3.0Ø	10mØ	30 Δ					D	TO5	A
21	TR10	150m			#J	50			100m	25u	5.0	1.0m	18					A		
22	TR81	150m		2.8m	#J	25				20u	4.5	1.0m	200					A		
23	TR-C70	150m		2.8m	#J	16		12		10u	6.0	1.0m	30						TO5	
24	TR-C71	150m		2.8m	#J	12		9.0		10u	6.0	1.0m	60						TO5	
25	TR-C72	150m		2.8m	#J	20		16		20u	5.4	1.0m	100						TO5	
26	UPI1303	150m		2.5m	#J	30	15	25	300m	6.0u	1.0Ø	10m	20 †				20p	#	O3e	A
27	UPI1305	150m		2.5m	#J	30	15	25	300m	6.0u	1.0Ø	10m	40 †				20p	#	O3e	A
28	UPI1307	150m		2.5m	#J	30	15	25	300m	6.0u	1.0Ø	10m	60 †				20p	#	O3e	A
29	UPI1309	150m		2.5m	#J	30	15	25	300m	6.0u	1.0Ø	10m	80 †				20p	#	O3e	A
30#	AC125	150m*	1.7m§	3.3m	#J	32	32 §	10	200m	10uØ	5.0	2.0m	100 †				40p$	A	TO1	F
31#	AC126	150m*	2.3m§	3.3m	#J	32	32 §	10	1.0 #	10uØ	0.0	300m	90 †				100p$	A	TO1	F
32#	2SB475	150m	10kt	3.0m	ØJ	20	10	6.0	300m	20uØ								A	TO1	A
33	JAN2N464	150m	400kΔ	2.5m	#S	40		12		20u	6.0	1.0m	14 Δ	1.0uØb	45 Ø		60pØ		R179e	A
34	2N237	150m	.50M		#	45			20m	10u	6.0	1.0m	50							A
35	JAN2N465	150m	500kΔ	2.0m	#S	40	30	12	50m	15u	6.0	1.0m	27 Δ	1.0uØb	45 Ø		20pØ		TO5	A
36	JAN2N466	150m	500kΔ	2.0m	#J	35	25 §	12		20u	6.0	1.0m	54 Δ	1.0uØb	45 Ø		60pØ		TO5	A
37	2N519A	150m	500kΔ	2.0m	#S	25	18	10		2.0uØ	5.0Ø	1.0m	15 Δ	1.5uØb				Δ	TO5	A
38	JAN2N398A	150m	600kΔ	2.0m	#S	105	105 Ø	75	200m	14uØ	6.0Ø	1.0mØ	20 Δ				25pØ		TO5	A
39	2N405	150m	650k	3.3m	ØA	20	18	2.5	35m	14uØ	6.0Ø	1.0m	35	17u	1.1k	2.9	40p	A	TO44	A
40	2N406	150m	650k		ØA	20	18	2.5	35m	14uØ	6.0Ø	1.0m	35	17u	1.1k	2.9	40p	A	TO1	A
41	2N104	150m	700k	2.5m	ØA	30		12	50m	10uØ	6.0Ø	1.0mØ	44	23u	1.6k	5.0	40p	A	TO40	A
42	2N180	150m	.70M	3.0mØ		30		30		10u	6.0	1.0m	60				25p	A	R8a	A
43	2N181	150m	.70M	5.0mØ		30		30		10u	6.0	1.0m	60				25p	A	R201	A
44♦	2N215	150m	700k	2.5m	ØA	30			50m										TO1	A
45♦	2N464	150m	700k	2.5m	#J	45	40	12	100m	15uØ	6.0Ø	1.0m	26	17u	900	3.5		FA	TO5	A
46	JAN2N467	150m	700kΔ	2.0m	#S	35	15	12	50m	10u	6.0	1.0m	110 Δ	1.0uØb	45 Ø		20pØ		TO5	A
47	GT87	150m	700k	2.0m	#S	25		10		25u	5.0Ø	1.0m	28	500nb	40	4.0	35p	AΔ		
48	TR104	150m	700k	2.5m	ØA	30			50m	10uØ	6.0	1.0mØ	44				40p	A		
49	TR215	150m	700k	2.5m	ØA	30			50m	10uØ	6.0	1.0mØ	44				40p	A		
50	2N1129	150m	750k	2 5m	#J	25	25 Ø		250m	25u	6.0	10mØ	190	1.6ub	10	5.5	125p	AΔ	R2	A
51	2N1130	150m	750k	2.5m	#J	30			250m	25u	6.0	10mØ	160	1.6ub	10	5.5	125p	AΔ	R2	A
52♦	2N422	150m	800k	2.5m	#J	35	20	12	100m	15uØ	6.0Ø	1.0m	50	19u	2.5k	5.5		FAØ	TO5	A
53♦	2N465	150m	800k	2.5m	#J	45	30	12	100m	15uØ	6 0Ø	1 0m	45	18u	1.4k	4.3		FA	TO5	A
54	2N563	150m	800k	2.5m	#S	30	25	10	300m	5.0uØ	5.0Ø	1.0mØ	25	2.0ub	35	2.5	30p	A	R109	A§
55#	2SB32	150m	800k	2.5m	#J	20		2.5	50m	14uØ	6.0Ø	1.0m	40	16u	1.5k	4.2		A	TO1	
56#	2SB136	150m	.80M	2.5m	#J	25	25 Ø	12	150m	10u	1.5Ø	50mØ	120 †					A	TO1	A
57	2N44	150m	1.0M	4.0m	#J	45	30	5.0	300m	16u	1.0Ø	100mØ	13 †Δ	1.5uØb	38 Ø	13 Ø	60pØ	F	R32	A§
58	2N45	150m	1.0M	2 0m	#J	45		5.0	10m	15u				2.0uØb	50 Ø	5.0 Ø	50uØ	F	R31a	A§
59	2N45A	150m	1.0M		#J	45		5.0	10m	15u	5.0Ø	1.0mØ	15 Δ				40p		TO5	A
60♦	2N272	150m	1.0M	2.5m	#J		20		100m	6 0uØ$	6.0Ø	1.0m	90	25u	3.0k		40p	FA	O3a	F
61	2N398A	150m	1.0M	2.0m	#J	105	105	50	200m	50u	.35Ø	5.0mØ	65 †						TO5	A
62	JAN2N422	150m	1.0MΔ	2.5m	#S	35		12		20u	35Ø	0.0	30 Δ	1.0uØ	45 Ø		60pØ	Ø	R179e	AØ
63♦	2N466	150m	1.0M	2.5m	#J	35	20	12	100m	15uØ	6.0Ø	1.0m	90	20u	3.0k	5.6		FA	TO5	A
64	2N565	150m	1.0M	2.5m	#S	30	25	10	300m	5.0uØ	5.0Ø	1.0mØ	55	2.0ub	30	3.5	30p	A	R109	A§
65	2N1128	150m	1.0M	2.5m	#J	25	18 Ø		250m	20u	10	2.0mØ	100	500nb	12	1.8	90p	A	R2	A
66#	2SB33	150m	1.0M	2.5m	#J	20		2.5	50m	14uØ	6.0Ø	1.0m	80	20u	2.6k	5.5		A	TO1	
67#	2SB54	150m	1.0M§	3.0m	ØJ	30	20 §	12	150m	14uØ	6.0Ø	1.0m	140	30u	4.2k	6.0	35p	A	TO1	A
68#	2SB56	150m	1.0M§	3.0m	ØJ	30	25 §	12	150m	14uØ	1.0Ø	50mØ	80 †				35p	A	TO1	
69#	2SB60	150m	1.0M	2.5m	#J	20		2.5	50m	14uØ	6.0	1.0m	65	300nb	30	3.0		A	TO1	
70#	2SB94	150m	1 0M	3.0m	ØJ	25		12	50m	14u	6.0	1.0m	150	200nb	30	2.5		A	TO1	
71#	2SB365	150m	1.0M	3.0m	ØJ	20	20 §	12	400m	14nØ	.50Ø	100mØ	90 †				50p	A	TO1	
72	GT83	150m	1.0M	2.0m	#S	25		10		25u	5.0Ø	1 0m	42	500nb	40	4.0	35p	AΔ		
73	MA202	150m	1.0M	2 0m	#J	105	105	10	200m	50u	.35Ø	5.0mØ	40 †Δ					A	TO5	A
74	MA203	150m	1.0M	2.0m	#J	105	105	20	200m	50u	.35Ø	5.0mØ	40 †Δ					A	TO5	A
75	MA204	150m	1.0M	2.0m	#J	90	90	20	200m	50u	.35Ø	5.0mØ	20 †Δ					A	TO5	A
76	MA205	150m	1.0M	2.0m	#J	75	75	20	200m	50u	.35Ø	5.0mØ	20 †Δ					A	TO5	A
77	MA206	150m	1.0M	2.0m	#J	60	60	10	200m	50u	.35Ø	5.0mØ	20 †Δ					A	TO5	A
78#	OC75	150m	1.0M	2.3m	#J	30	30	10	100m	10uØ	4.5Ø	1.0mØ	60 Δ				40p	A	TO1	A
79#	OC76	150m	1.0M	2.3m	#J	32	16	10	300m	10uØ	5.4Ø	10mØ	45 Δ				40p	A	TO1	A
80	SK3003-RT	150m	1.0M§			20	18	2.5	70m		1.0	50mØ	90 †					A	TO1	A
81	TR43A	150m	1.0M	2.0m	#	45		15	50m	5.0u	5.0	1.0m	43				40p	F		
82♦	2N467	150m	1.2M	2.5m	#J	35	15	12	100m	15uØ	6.0Ø	1.0m	180	22u	5.5k	6.2		FA	TO5	A
83#	2SB364	150m	1.2M	3.0m	ØJ	20	20 §	12	400m	14uØ	.50Ø	100mØ	90 †				50p	A	TO1	
84	CK751	150m	1.2M	2.5m	#J	12			150m	6.0uØ	6.0	1.0m	140					F		
85	MA894	150m	1.2M	2.5m	#J	30	30 Ø	10	200m	100u	6.0Ø	1.0m	20 Δ				25pØ	A	TO5	
86	2N43	150m	1.3M	4.0m	#J	45	30	5.0	300m	16u	1.0Ø	100mØ	30 †Δ	1.5uØb	35 Ø	15 Ø	60pØ	F	R32	A§
87	2N43A	150m	1 3M	2.0m	#J	45	30	5.0	300m	16u	1.0Ø	100mØ	30 †Δ	1.5uØb	35 Ø	15 Ø	60pØ		R32	A§
88	2N567	150m	1 5M	2.5m	#S	30	25	10	300m	5.0uØ	5.0Ø	1.0mØ	100	2.0ub	30	4.0	30p	A	R109	A§
89#	AC151	150m*	1.5M§	3 3m	#J	32	24	10	200m	25u	1.0Ø	2.0mØ	110	130u	1.0k	14	27p	AØ	TO1	
90#	AC151R	150m*	1.5M§	3.3m	#J	32	24	10	200m	100uØ	1.0Ø	2.0mØ	80	100u	750	9.0	27p	AØ	TO1	
91#	ACY23	150m*	1.5M§	3.3m	#J	32	30	16	200m	10uØ	5.0Ø	1.0mØ	100	40u	3.0k	7.0	27p	A	TO1	
92#	ACY32	150m*	1.5M§	3.3m	#J	32	30	16	200m	10uØ	5.0Ø	1.0mØ	100	40u	3.0k	7.0	27p	AØ	TO1	
93	GT88	150m	1.5M	2.0m	#S	25		10		25u	5.0Ø	1.0m	80	500nb	40	5.0	35p	AΔ		
94	TR45	150m	1.5M	2.5m	#J	45		5.0	400m	16u	1.0Ø	20mØ	20 †				20p		TO5	
95	MA895	150m	1.7M	2.5m	#J	30	30 Ø	10	200m	100u	6.0Ø	1.0m	40 Δ				25pØ	A	TO5	
96	2N569	150m	2.0M	2.5m	#S	30	20	10	300m	5.0uØ	5.0Ø	1.0mØ	150	2.0ub	30	5.0	30p	A	R109	A§
97#	2SB75	150m	2.0M	2.5m	#J	25	25 Ø	12	100m	14u	6.0Ø	1.0mØ	55	17u	1.7k	3.0		A	TO1	A
98#	2SB77	150m	2.0M	2.5m	#J	25	25 Ø	12	100m	14u	6.0Ø	1.0mØ	70	26u	1.9k	3.8		A	TO1	A
99#	2SB439	150m	2.0M	3.0m	ØJ	30	20 §	12	150m	14uØ	6.0Ø	1.0m	130	45u	4.0k	8.0	30p	AØ	TO1	
100#	2SB440	150m	2.0M	3.0m	ØJ	30	20 §	12	150m	14uØ	6 0Ø	1.0m	130	45u	4.0k	8.0	30p	AØ	TO1	
101#	ASY56N	150m	2.0MΔ	2.5m		16	10	12	200m	10u	0.0	10m	40				20pØ	A	TO5	A
102	GT122	150m	2.0M	2.0m	#S	25		10		25u	5.0Ø	1.0m	100	500nb	40	5.0	35p	AΔ	TO5	A
103	TR650	150m	2.0M	2.5m	#J	45	25	25	400m	15uØ	6.0Ø	1.0m	40				20p	A	TO5	A
104	TR653	150m	2.0M	2.5m	#J	30	15	25	400m	15uØ	6.0Ø	1.0m	40				20p	A	TO5	A
105	MA896	150m	2.2M	2.5m	#J	30	30 Ø	10	200m	100u	6.0Ø	1.0m	90 Δ				25pØ	A	TO5	
106	TR44	150m	2.2M	2.5m	#J	45		5.0	400m	16u	1.0Ø	20mØ	30 †				20p		TO5	
107♦	2N413	150m	2.4M	2.5m	#J	30	18	20	200m	5.0uØ	6.0Ø	1.0m	30	600nb	25	3.0	12p	FAØ	TO5	A
108#	2G322	150m	2.5M	3.7m	#J	16	16 §		100m	16u	5.0Ø	1.0m	50		1.4k		27p	AØ	TO5	
109♦	2N413A	150m	2.5M	2.5m	#J	30	15	20	200m	5.0uØ	6.0Ø	1.0m	30	600nb	25	3.0	12p	FA	TO5	A
110	JAN2N425†	150m	2.5MΔ	2.0m	#S	30	20	20	400m	3.0uØ	.25Ø	1.0mΔ	20 †Δ				20pØ		TO5	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N2627	150m	13M§△	1 8m	♦S	15		50	100m	20uØ	6.0Ø	1.0mØ	15 †△				3.5p☑		TO5	A
2	UPI404	150m	13M	2.5m	#A	27	150m	12	100m	20u	.20Ø	25mØ	40 †				12p	A	TO5	A
3	2N303	150m	14.M△	2.5m	#J	30	10	20	200m	1.0uØ	6.0	1.0m	75				12p$	AF	O3a	F
4#	ASY27-RT†	150m	14M§	2.5m	#J	25	15	20	200m	7.0u	5.0Ø	2.0mØ	90	100u	1.4k	7.5	11p$	A	TO5	A§
5	JAN2N417	150m	15M△	2 0m	#J	30		12		25u	6.0	1 0m	60 △				20p☑		R179q	A
6	2N522A	150m	15M△	2.0m	#S	25	10	10		2.0uØ	5.0Ø	1.0m	100 △	1.5u☑b				△	TO5	A
7	2N1309	150m	15M△	2.5m	#J	30		25	300m	6.0uØ	1.0Ø	10mØ	80 †△				20p☑	△	TO5	A§
8	JAN2N1309	150m	15M△	2.5m	#S	30		25	300m	6.0uØ	1.0Ø	10mØ	80 †△				20p☑		TO5	A§
9	2N1309A	150m	15M△	2.5m	#J	35		35	300m	6 0uØ	1.0Ø	10mØ	80 †△				20p☑	△	TO5	A§
10	2N2622	150m	15M§△	1.8m	♦S	24		1 0	100m	12uØ	12Ø	1 0mØ	15 †△				3.5p☑		TO5	A
11	2N2625	150m	15M§△	1.8m	♦S	24		1.0	100m	12uØ	12Ø	1.0mØ	15 †△				3.5p☑		TO5	A
12	2N2628	150m	15M§△	1.8m	♦S	24		50	100m	14uØ	12Ø	1.0mØ	15 †△				3.5p☑		TO5	A
13	2N3000	150m	15.M	2.5m	#J	45	15	35	400m	50u	5.0	1.0m	110				10p	A△	TO5	
14#	ACY38	150m	15.M§	2.5m	#S	15	15 #	9 0	100m	2 0uØ	6.0	1 0m	100 *	60u	3.0k	5.0		AØ	TO5	
15#	NKT139	150m	15M	2.1m	#J	30	15	25	300m	6.0uØ	1 0Ø	10m	60 †△				20p☑	A	TO5	A
16	2N2623	150m	16M§△	1.8m	♦S	32		1.0	100m	8.0uØ	12Ø	1.0mØ	20 †△				3.5p☑		TO5	A
17	2N2626	150m	16M§△	1.8m	♦S	32		1 5	100m	8.0uØ	12Ø	1.0mØ	20 †△				3.5p☑		TO5	A
18	2N2629	150m	16M§△	1.8m	♦S	32		.50	100m	10uØ	12Ø	1.0mØ	10 †△				3.5p☑		TO5	A
19#	SFT288†	150m	16.M	2.5m	#J	24		12	500m	10u	.35Ø	400mØ	40 †△				12p	A△	TO5	A
20♦	2N428†	150m	17M	2.5m	#J	30	12	20	400m	4.0uØ	.25Ø	1.0m△	60 †△				14p	FA	TO5	A
21♦	2N417	150m	20M	2.5m	#J	30	10	20	200m	5.0uØ	6.0Ø	1.0m	140	770nb	26	11	12p	FAØ	TO5	A
22♦	2N1017	150m	20M	2.5m	#J	30	10	20	400m	25u	.35Ø	10m△	30 †				12p	FA△	TO5	A
23#	SFT319	150m	20.M§	2 5m	#J	20		.50	10m	15uØ	9 0Ø	1.0mØ	50				2.5p	D	TO1	A
24	2N523A	150m	21M△	2 0m	#S	20	6.0	10		2.0uØ	5.0Ø	1.0m	125 △	1.5u☑b				△	TO5	A
25#	SFT229†	150m	25.M	2.5m	#J	18	15 §	12	250m	10u	.50Ø	10mØ	75 †△					A△	TO5	
26	TR764	150m	25.M	2.8m	#J	20			200m	5.0u	4.5	1.0m	200					A		
27#	SFT320	150m	35.M§	2 5m	#J	20		.50	10m	15uØ	9.0Ø	1.0mØ	80				2.5p	D	TO1	A
28	2N1300†	150m	40M§	2.5m	#A	13	12	1.0	100m	3.0uØ	.30Ø	10mØ	50					ME	TO5	A
29	2N1854	150m	40 M§△	2 5m	#J	18		2.0	100m	4.2u	50Ø	20m	40 △				12p☑		TO5	A
30♦	JAN2N1854†	150m	40M§△	3 7m	#S	18		2 0	100m	40uØ†	75Ø	100mØ	25 †△					△	TO5	A
31#	SFT317	150m	40.M§	2 5m	#J	20		.50	10m	15uØ	9.0Ø	1.0mØ	100				2.5p	D	TO1	A
32	2N1301†	150m	60M§	2 5m	#A	13	12 §	4.0	100m	3 0uØ	.30	10mØ	50					DM	R179g	A
33	UPI1301	150m	60M	2.5m	#A	13	12	4.0	100m	3 0u	.30	10mØ	50 †					DM	O3e	A
34	2N1683†	150m	80 M	2 0m	#A	13	12	4.0	100m	3.0uØ	.50Ø	40mØ	85 †				8.0p	ME	TO5	A
35	HEP1-RT	150m♦	100M§		#J	12	12 Ø$	2 0	100m$	5 0u$	6 0		50 †						TO18	A
36	HEP635-RT	150m♦	100M§		#J	30	25 Ø$	2.5	100m$	5 0u$	5.0		85 †						TO5	A
37#	2G106†	150m	120M§	2.0m	#A	18	15 Ø	4.0	100m	100u	25Ø	10mØ	30 †△				5p☑	ME	TO18	
38	2N711†	150m	150M§△	2 0m	#J	12	12 Ø	1.0	100m	3.0uØ	.50Ø	10mØ	20 †△				7.5p☑		TO18	AØ
39	2N711At	150m	150M§	2.0m	#S	15	7 0	1.5	100m	1.5uØ	.50Ø	10mØ	25 †△				6p☑	ME	TO18	AØ
40	2N711B†	150m	150M§	2 0m	#S	18	7 0	2.0	100m	1 5uØ	.50Ø	10mØ	30 †△				6p☑	ME	TO18	AØ
41	2N2048†	150m	150M§△	2.0m	#S	20	15	2.0	100m	5.0uØ	.50Ø	10mØ	50 †△				3 0p☑		TO9	A
42	2N2048A†	150m	150M§△	2.0m	#S	30	20	2.5	3.0u		.50Ø	50mØ	40 †△				3 0p☑		TO9	A
43	2N2400†	150m	150M§△	2.0m	#S	12	7 0	1.0	100m	3.0uØ	.50Ø	10mØ	30 †△				4p☑		TO18	A
44	2N2635†	150m	150M§△	2.0m	#S	30	15	2.5	100m	5.0uØ	1 0Ø	50mØ	45 †△				5.0p☑		TO18	AØ
45♦	2N2942†	150m	150M§△	2.0m	#S	50	25	2.5	100m	25u	.50Ø	50mØ	40 †△				3.5p☑	D	TO9	A
46	2N3400†	150m	150M§△	2 0m	#S	20	20	2.0	100m	5.0uØ	.50Ø	50mØ	35 †△				3p☑		TO9	A
47	2N2401†	150m	200M§△	2.0m	#S	15	10	1.5	100m	1 5uØ	.50Ø	10mØ	50 †△				4p☑		TO18	A
48	2N2955†	150m	200M§△	2.0m	#S	40	25	3.5	100m		1.0Ø	10mØ	20 †△						TO18	AØ
49	2N3323	150m	200M§△	2.0m	#J	35	35 Ø	3.0	100m	10uØ	10Ø	3.0mØ	30 △				3p☑		TO18	A
50	2N3324	150m	200M§△	2.0m	#J	35	35 Ø	3.0	100m	10uØ	10Ø	3.0mØ	30 △				3p☑		TO18	A
51	2N3325	150m	200M§△	2.0m	#J	35	35 Ø	3 0	100m	10uØ	10Ø	3.0mØ	30 △				3p☑		TO18	A
52	2N6365	150m	200M§△	2.0m	#S	30	10	10	1.0	10uØ	6.0Ø	1.0mØ	20 †△				2.0p$☑		TO18	AØ
53	JAN2N6365	150m	200M§△	2.0m	#S	30	25 Ø	1.0	100m	10uØ	6.0Ø	1.0mØ	15 △				2.0p$☑		TO18	AØ
54	2N6365A	150m	200M§△	2.0m	#S	30	10	10	1.0	10uØ	6.0Ø	1.0mØ	20 †△				2.0p$☑		TO18	AØ
55	JAN2N6365A	150m	200M§△	2.0m	#S	30	25 Ø	1.0	100m	10uØ	6.0Ø	1.0mØ	180 △				2.0p$☑		TO18	AØ
56	2N827	150m	250M§△	2.0m	#S	20	20 Ø	4 0	100m		.30Ø	10mØ	100 †△				9p☑	△	TO18	A
57	2N963†	150m	250M§△	2.0m	#J	12	7.0	1.2	100m	5.0uØ	.30Ø	10mØ	20 †△				5.0p☑		TO18	AØ
58	2N967†	150m	250M§△	2.0m	#J	12	7.0	1.2	100m	5.0uØ	.30Ø	10mØ	40 †△				5.0p☑		TO18	AØ
59	2N2258†	150m	250M§△	2.0m	#J	7.0	7.0	1.0	100m	10uØ	1.0Ø	10mØ	30 †				4.0p	ME	TO18	A
60	2N2259†	150m	250M§△	2.0m	#J	7.0	7.0	1.0	100m	10uØ	1.0Ø	10mØ	50 †				4.0p	ME	TO18	A
61	2N2402†	150m	250M§△	2 0m	#S	18	12	2.0	100m	1.5uØ	.50Ø	10mØ	60 †△				4p☑		TO18	A
62#	2G103†	150m	300M	4.0m	#J	15	15 Ø	2 0	50m	3 0uØ	5 0	10m	40 †				5.0p	ME	TO18	
63#	2G104†	150m	300M	4.0m	#J	15	15 Ø	3.5	50m	3.0uØ	50Ø	10m	40 †				5.0p	ME	TO18	
64	JAN2N559†	150m	300M§△	2.0m	$S	15	15 Ø	5 0	50m	3.0uØ	.50Ø	10mØ	30 †△#				6.0p☑		TO18	AØ
65	2N741A	150m	300M§△	4.0mØ	#J	20	20	1.0	100m	3.0uØ	4.0Ø	5.0mØ	20 △		15 ☑b		10p☑		TO18	AØ
66	2N828†	150m	300M§△	2.0m	#J	15	6.0	2.5	200m	3.0uØ	.30Ø	10mØ	25 †△				6p☑		TO18	AØ
67	2N829†	150m	300M§△	2.0m	#S	15	6 0	2.5	200m	3.0uØ	.30Ø	10mØ	50 †△				4p☑		TO18	AØ
68	2N838	150m	300M§△	2.0m	#S	30	30 Ø	2.5	100m		.30Ø	10mØ	30 †△				4p☑	△	TO18	AØ
69	2N960†	150m	300M§△	2.0m	#J	15	7.0	2.5	100m	3.0uØ	.30Ø	10mØ	20 †△				4p☑		TO18	AØ
70	2N961†	150m	300M§△	2.0m	#J	12	7.0	2.0	100m	3.0uØ	.30Ø	10mØ	20 †△				4p☑		TO18	AØ
71	2N962†	150m	300M§△	2.0m	#J	12	7.0	1.2	100m	3.0uØ	.30Ø	10mØ	20 †△				4.0p☑		TO18	AØ
72	JAN2N962†	150m	300M§△	2 0m	#J	12	7.0	1.3	200m	3.0uØ	.30Ø	10mØ	20 †△				5.0p☑	E	TO18	AØ
73	2N964†	150m	300M§△	2.0m	#J	15	7.0	2.5	100m	3.0uØ	.30Ø	10mØ	40 †△				4p☑		TO18	AØ
74	JAN2N964†	150m	300M§△	2 0m	#J	15	7.0	2.5	200m	3.0uØ	30Ø	10mØ	40 †△				5.0p☑	E	TO18	AØ
75	2N964At	150m	300M§△	2.0m	#S	15	7.0	2.5	100m	3.0uØ	1.0Ø	50mØ	48 †△				4p☑		TO18	AØ
76	2N965†	150m	300M§△	2.0m	#J	12	7.0	2.0	100m	3.0uØ	.30Ø	10mØ	40 †△				4p☑		TO18	AØ
77	2N966†	150m	300M§△	2.0m	#J	12	7 0	1.2	100m	3.0uØ	.30Ø	10mØ	40 †△				4.0p☑		TO18	AØ
78	2N968†	150m	300M§△	2.0m	#J	15	15 Ø	2.5	200m	3.0uØ	.50Ø	10mØ	17 †△				8p☑		TO18	AØ
79	2N969†	150m	300M§△	2 0m	#J	12	12 Ø	2.0	200m	3.0uØ	.50Ø	10mØ	17 †△				8p☑		TO18	AØ
80	2N970†	150m	300M§△	2.0m	#J	12	12 Ø	1.2	200m	3.0uØ	.50Ø	10mØ	17 †△				8.0p☑		TO18	AØ
81	2N971†	150m	300M§△	2 0m	#J	7.0	7 0 Ø	1.2	200m	10uØ	.50Ø	10mØ	17 †△				8.0p☑		TO18	AØ
82	2N972†	150m	300M§△	2.0m	#J	15	15 Ø	2.5	200m	3.0uØ	.50Ø	10mØ	40 †△				8p☑		TO18	AØ
83	2N973†	150m	300M§△	2.0m	#J	12	12 Ø	2.0	200m	3.0uØ	50Ø	10mØ	17 †△				8p☑		TO18	AØ
84	2N974†	150m	300M§△	2.0m	#J	12	12 Ø	1.2	200m	3.0uØ	.50Ø	10mØ	17 †△				8.0p☑		TO18	AØ
85	2N975†	150m	300M§△	2.0m	#J	7.0	7.0 Ø	1.2	200m	10uØ	.50Ø	10mØ	40 †△				8.0p☑		TO18	AØ
86	2N985†	150m	300M§	2.0m	#J	15	7.0	3.0	200m	100u	50Ø	100m	60 †△				6.0p	EM	TO18	AØ
87	2N3449†	150m	300M§△	2 0m	#S	15	6.0	1.5	100m	3.0uØ	.25Ø	10mØ	20 †△				5p☑		TO18	AØ
88	JAN2N3449†	150m	300M§△	2 0m	#S	15	6.0	1.5	100m	100u	.25Ø	10mØ	20 †△				5.0p☑		TO18	AØ
89	2N2956†	150m	375M§	2.0m	#J	40	20	3.5	100m		1 0Ø	50mØ	76 †				4p☑	EM△	TO18	A
90	2N828A	150m	400M§	2 0m	#J	15		2.5		3.0u	.30Ø	10mØ	25 †△					EM△	TO18	AØ
91	2N977†	150m	400M§△	2 0m	#S	15	10	2.0	200m	5.0uØ	.50	100mØ	40 †△				8p☑		TO18	A
92	2N1665	150m	400M*	2 5m	#S	15	12 Ø	.40	50m	10uØ	6.0Ø	10mØ	5.0 △				3 0p		TO5	
93	2N2957†	150m	400M§	2 0m	#J	40	18	3.5	100m		1.0Ø	50mØ	130 †				4p☑	EM△	TO18	A
94	2N3371	150m	400M§△	2.0m	♦S	25	10	.30	100m	7.0uØ	6.0Ø	12mØ	25 △				4.0p☑	Ø	TO18	Ø
95	JAN2N1094	150m	560M§△	2 0m	#J	30		1.0	40m	5.0uØ	6.0Ø	4.0mØ	15 †△	20u☑b	15 ☑	30 ☑		D	TO28	AØ
96	2N2455†	150m	600M§△	2 0m	#S	15	8.0	2.5	200m	2.0uØ	.20Ø	2.0mØ	20 †△				3.5p☑		TO18	AØ
97	HEP636-RT	150m♦	600M§		#J	35	35 Ø$	3.0	100m$	500n$	10		120 †						TO18	A
98	2N1094	150m	645M§	2.0m	#J	30	15	1.0	40m	5.0uØ	6.0	4.0m	50	2.0ub	9.5	11	2.3p	Dt	TO28	
99	2N3784	150m	700M§△	2.0m	#J	30	20	.50	20m	5 0uØ	10Ø	3.0mØ	20 △				1p☑	EMØ	TO72	G
100	2N3785	150m	700M§△	2.0m	#J	15	12	50	20m	5 0uØ	10Ø	3.0mØ	15 △				1.2p☑	EMØ	TO72	G
101	2N3783	150m	800M§△	2 0m	#J	30	20	50	20m	5.0uØ	10Ø	3 0mØ	20 △				1p☑	EMØ	TO72	G
102	HEP637-RT	150m♦	800M§		#J	20	15 Ø$	30	10m$	5.0u$	10		120 †						TO72	G
103	MM5000	150m	800M§△	2.0m	#J	30	15	.30	10m		12Ø	3.0mØ	30 †△				.6p$☑	Ø	TO72	G
104	MM5001	150m	800M§△	2 0m	#J	30	15	30	10m		12Ø	3.0mØ	30 †△				.6p$☑	Ø	TO72	G
105	MM5002	150m	800M§△	2.0m	#J	30	15	.30	10m		12Ø	3.0mØ	30 †△				.6p$☑	Ø	TO72	G
106	2N2456†	150m	1.0G§△	2 0m	#S	15	8.0	2 5	200m	2 0uØ	.20Ø	2.0mØ	20 †△				3 0p☑		TO18	AØ
107#	MM2550†	150m	1.0G§△	2.0m	#J	20	10	50	100m	10uØ	5.0Ø	10mØ	20 †△				3.0p☑	EM	TO18	A
108	2N44A	155m	1.0MØ	2.5m	#S		25		50m	8.0u	5.0	1.0m	31				40p		R32	A
109#	AC128	155m*	1 5M§	3 3m	#J	32	32 §	10	1.0 #	10uØ	0.0	300m	90 †				100p$	A	TO1	F
110	AFY42	160m	650M	1 3m	ØS	30	25	.30	10m	6.0u	10Ø	2.0mØ	33 †				250f		TO18	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1#	NKT216	200m	.90M△	3.1m	#J	32	32 §	10	250m	10uØ	4 5Ø	1 0mØ	50 △				60p☑		TO1 A
2#	NKT217	200m	.90M△	3.1m	#J	60	40	10	500m	10uØ	0.0Ø	25mØ	50 †△				60p☑		TO1 A
3#	NKT219	200m	.90M△	3.1m	#J	32	32 §	10	250m	10uØ	4 5Ø	1.0mØ	85 △				60p☑		TO1 A
4	2N187A	200m	1.0M	3.3m	#J	25	25 §	5 0	200m	16u	1 0Ø	100m	36 †		2 0k		40p		R32
5	2N190	200m	1.0M	3.3m	#J		25 §		200m	16u	5 0	1.0m	42	800nb	29	4 0	40p	A	R32
6	2N322	200m	1.0M△	2 0m	#J	18	18 §	5 0	200m	16uØ	1.0Ø	20mØ	35 †△				35p	A	TO5 A§
7	2N651	200m	1.0M§△	2 7m	#S	45	30 §	30	500m	10uØ	6.0Ø	1.0m	50 △		37 ☑b				TO5 A
8	2N651A	200m	1.0M§△	2.7m	#S	45	30 §	30	500m	10uØ	6 0Ø	1 0m	50 △	1.0u☑b	37 ☑b		25p☑		TO5 A
9	JAN2N651A	200m	1.0M△	2.6m	#S	45	30	30	500m	50u	6.0Ø	1.0m	50 △	700n☑b	37 ☑	10 ☑	25p☑		TO5 A
10	2N1187	200m	1.0M△	2.7m	#S	60	45 §	30	500m	10uØ	6.0Ø	1.0m	50 △		37 ☑b				TO5 A
11#	2SB415	200m	1.0M	3.3m	#J	32	32 §	6 0	1	14uØ	0.0	300m	70 †					A	TO1 A
12#	2SB495	200m	1.0M	3.3m	#J	25	18	6.0	1 0	20uØ	1.0Ø	150m	110 †					A	TO1 A
13	HEP629-RT	200m♦	1.0M§		#J	55	40 Ø$	30	400m$	10u$	20		50 †						TO5 A
14	HEP630-RT	200m♦	1.0M§		#J	55	40 Ø$	30	400m$	10u$	20		110 †						TO5 A
15▼	HSE118-RT	200m	1.0M§	2.6m	#J	20	12	3.0		10u	1.0Ø	50mØ	50 †△						TO5 A
16	MA100	200m	1.0M△	2.7m	#J	60	60 Ø	15	500m	100u	6.0Ø	1.0m	50 △				25p☑	A	TO5 A
17	MA882	200m	1.0M△	2.6m	#J	60	60 Ø	15	500m	100u	6 0Ø	1.0m	50 △	100n☑b	40 ☑		25p	A	TO5 A
18	MA887	200m	1.0M△	2.6m	#J	50	50 Ø	15	500m	100u	6.0Ø	1.0m	50 △	1 0u☑b	40 ☑		25p	A	TO5 A
19#	NKT271	200m	1.0M	3.1m	#J	15	15 §	5.0	500m#	10uØ	1 5Ø	50mØ	50 †△						TO1 A
20#	NKT272	200m	1 0M	3.1m	#J	15	15 §	5.0	250m	10uØ	4.5Ø	1.0mØ	35 △						TO1 A
21#	NKT274	200m	1.0M	3.1m	#J	15	15 §	5.0	250m	10uØ	4 5Ø	1.0mØ	85 △						TO1 A
22#	NKT275	200m	1.0M	3.1m	#J	15	15 §	5.0	250m	10uØ	4.5Ø	1 0m	30 △						TO1 A
23#	OC78	200m	1.0M	3.0m	#J	20	20	10	200m	10uØ	1 0Ø	125mØ	25 △				40p	A	TO1 A
24#	OC81DN	200m	1.0M§	3.3m	#J	32	16	10	250m	10u	6 0Ø	2 0mØ	20 †△				40p	A	TO1 A
25#	OC81N	200m	1.0M§	3.3m	#J	32	16	10	500m	10u	1 5Ø	50mØ	50 †△				40p	A	TO1 A
26	SK3005-RT	200m	1 0M§			40	35	25	5.0m				165 †					A	TO1 A
27	2N188A	200m	1.2M	3 3m	#J	25	25 §	5.0	200m	16u	1.0Ø	100m	54 †		2.6k		40p		R32
28	2N191	200m	1.2M	3.3m	#J		25 §		200m	16u	5.0	1 0m	67	600nb	29	4 0	40p	A	R32
29	2N460	200m	1.2M	5.0m	#J	45			400m	15u	5.0	1.0m	960m	1.0ub	30	3.0	50p	A	TO5 A
30	2N461	200m	1.2M	5.0m	#J	45			400m	15u	5.0	1 0m	980m	1 0ub	30	4.0	50p	A	TO5 A
31	2N652	200m	1.2M§△	2 7m	#S	45	30 §	30	500m	10uØ	6 0Ø	1.0m	100 △		37 ☑b				TO5 A
32	2N652A	200m	1 2M§△	2.7m	#S	45	30 §	30	500m	10uØ	6.0Ø	1.0m	100 △	1.0u☑b	37 ☑b		25p☑		TO5 A
33	JAN2N652A	200m	1.2M△	2.6m	#S	45	30	30	500m	50u	6.0Ø	1 0m	100 △	700n☑b	37 ☑	12 ☑	25p☑		TO5 A
34	2N1188	200m	1.2M△	2.7m	#S	60	45 §	30	500m	10uØ	6.0Ø	1 0m	100 △		37 ☑b				TO5 A
35#	ACY28	200m	1.2M	3.1m	#J	40	15	30	500m	6 0uØ	12Ø	1 0mØ	45 △					A	TO1 A
36	MA883	200m	1.2M△	2.6m	#J	60	60 Ø	15	500m	100u	6 0Ø	1 0m	100 △	100n☑b	40 ☑		25p	A	TO5 A
37	MA888	200m	1.2M△	2.6m	#J	50	50 Ø	15	500m	100u	6.0Ø	1 0m	100 △	1.0u☑b	40 ☑		25p	A	TO5 A
38	2N241A	200m	1.3M	4 0m	ØJ	25	25 §	5.0	200m	16u	1.0Ø	100mØ	73 †		4.0k		40p		R32
39#	SFT321	200m	1 3M	3 3m	#J	24		12	250m	15u	1 0Ø	100mØ	30 †				32p	A	TO1
40#	ACY29	200m	1.4M	3 1m	#J	40	15	30	250m	12uØ	12Ø	1 0mØ	45 △				16p	AØ	TO1 A
41	2N192	200m	1.5M	5.0m	#J		25 §		200m	16u	5.0	1 0m	90	500nb	29	4.0	40p	A	R32
42	2N323	200m	1 5M△	2.0m	#J	18	18 §	5 0	200m	16uØ	1 0Ø	20mØ	53 †△				35p	A	TO5 A§
43	2N653	200m	1.5M	2 6m	#J	30	25	25	250m	15uØ	6 0Ø	1.0mØ	49		1.8k		10p	A	TO5 A
44	2N1451	200m	1.5M	3.3m	#J	45	20	10	400m	15u	2 0Ø	20mØ	45 †	1.0ub	40	3.0	20p	A	TO5
45	HEP250-RT	200m♦	1.5M§		#J	20	20 Ø$	2.5	200m$	15u$	20		65 †						TO5 A
46	HEP252-RT	200m♦	1.5M§		#J	20	20 Ø$	2.0	200m$	15u$	20		65 †						TO5 A
47	HEP631-RT	200m♦	1.5M§		#J	40	25 Ø$	25	200m$	15u$	25		45 †						TO5 A
48#	SFT322	200m	1.6M	3.3m	#J	24		12	250m	15u	1.0Ø	100mØ	50 †				32p	A	TO1 A
49#	SFT352	200m	1.6M	3.3m	#J	24		12	150m	15u	6 0Ø	1 0mØ	50	27u	1.5k	3.2	32p	A	TO1 A
50	2N1185	200m	1.7M△	2.7m	#S	45	30 §	30	500m	50u	6 0Ø	1.0m	190 ☑		37 ☑b				TO5 A
51	MA884	200m	1.7M△	2.6m	#J	60	60 Ø	15	500m	100u	6.0Ø	1 0m	190 △	1.0u☑b	40 ☑		25p	A	TO5 A
52	MA889	200m	1.7M△	2.6m	#J	50	50 Ø	15	500m	100u	6 0Ø	1 0m	190 △	1.0u☑b	40 ☑		25p	A	TO5 A
53#	ACY30	200m	1.8M	3.3m	#J	40	20	40		12uØ	12Ø	1 0mØ	60 △				35p	A	TO1 A
54	TR383	200m	1.8M	3.3m	#J	25		10	200m	25u	1 0Ø	150mØ	72 †				20p		TO5
55	2N324	200m	2 0M△	2 0m	#J	18	18 §	5.0	200m	16uØ	1.0Ø	20mØ	72 †△				35p	A	TO5 A§
56	2N654	200m	2 0M	2 6m	#J	30	25	25	250m	15uØ	6.0Ø	1.0mØ	80		3 1k		10p	A	TO5 A
57	2N1446	200m	2.0M	3.3m	#J	45	25	15	400m	10uØ	6 0Ø	1.0mØ	30	600nb	25	300m	20p	A△	TO5 A
58#	2SB51	200m	2.0M		#J	30		3.0	200m	16u	1 0Ø	20m	43 †	.60u	28	8.0	25p	A†	TO5
59	HEP632-RT	200m♦	2.0M§		#J	40	25 Ø$	25	200m$	15u$	25		80 †						TO5 A
60	MA4404†	200m	2 0M	2.6m	#J	25	24 Ø	12	350m	10uØ	6.0Ø	1.0mØ	145	50u	4.0k	8.5	25p☑	A☑	TO5 A
61	MA4404A	200m	2.0M	2.6m	#J	25	24 Ø	12	350m	10uØ	6.0Ø	1.0mØ	145	50u	4 0k	8.5	4.0p	A☑	TO5 A
62	2N1452	200m	2.2M	3.3m	#J	45	20	10	400m	15u	2 0Ø	20mØ	60 †	100nb	40	4.0	20p	A	TO5 A
63#	SFT353	200m	2.4M	3.3m	#J	24		12	150m	15u	6.0Ø	1 0mØ	80	40u	2.3k	3.8	32p	A	TO1 A
64	2N508	200m	2.5M△	3.3m	#J	18	18 §	5 0	200m	7.0uØ	1.0Ø	20mØ	99 †△				35p☑	A	TO5 A§
65	2N655	200m	2.5M	2.6m	#J	30	25	25	250m	15uØ	6 0Ø	1.0mØ	130		5.7k		10p	A	TO5 A
66	HEP251-RT	200m♦	2.5M§		#J	20	20 Ø$	2.0	200m$	15u$	20		150 †						TO5 A
67	HEP633-RT	200m♦	2.5M§		#J	40	25 Ø$	25	200m$	15u$	25		160 †						TO5 A
68#	SFT323	200m	2.6M	3.3m	#J	24		12	250m	15u	1.0Ø	100mØ	85 †					A	TO1 A
69#	2G303	200m	3.0M§△			30	30 §	10	300m		6.0Ø	1.0mØ	30 △				12p☑	A	R177a
70	2N381	200m	3 0M	5.0m	#J	50	25 §	20	400m	10uØ	5.0Ø	10mØ	35 △	420u	300	6.6	20p	AØ	TO5 A
71	2N1447	200m	3.0M	3.3m	#J	45	25	15	400m	10uØ	6 0Ø	1 0m	45	620nb	25	500m	20p	A△	TO5 A
72	HEP634-RT	200m♦	3.0M§		#J	40	25 Ø$	25	200m$	15u$	25		350 †						TO5 A
73	2N1413	200m	3.2M	3.3m	#J	35	25 §	10	200m	12uØ	5.0	1 0m	30	650nb	29	4.8	26p		TO5 A§
74	2N1189	200m	3 5M	2.6m	#J	45	30 §	15	500m	50u	6.0Ø	1 0m	120	100nb	31		12p	A	TO5 A
75	2N1353†	200m	3.5M	3.3m	#J	15	10	10	200m	6 0uØ	1 0Ø	10mØ	70 †	b		100	12p	A	TO5 A
76	UPI1353	200m	3.5M	3.3m	#J	15	10	10	200m	6 0uØ	1.0Ø	10m	75 †				12p	A	O3e A
77	2N1414	200m	3.6M	3.3m	#J	35	25 §	10	200m	12uØ	5.0	1 0m	44	620nb	29	5 2	26p		TO5 A§
78	2N382	200m	4.0M	5.0m	#J	50	25 §	20	400m	10uØ	5 0Ø	10mØ	70 △	400u	450	6.9	20p	AØ	TO5 A
79	2N414B	200m	4.0M△	3.0m	#S	30	16	20	400m	6.0uØ	6.0Ø	1.0m	40 †△				14p☑		TO5 A
80	2N414C	200m	4.0M△	3 0m	#S	30	16	20	400m	6 0uØ	6 0Ø	1 0m	40 †△				14p☑		TO5 A
81	2N1361A	200m	4.0M	3.3m	#S	25	20	15	200m	6 0uØ	15Ø	25mØ	40 †△				20p☑	△	TO5 C§
82	2N1415	200m	4 0M	3.3m	#J	35	25 §	10	200m	12uØ	5 0	1.0m	64	550nb	29	5.7	26p		TO5 A§
83	2N1448	200m	4.0M	3.3m	#J	45	25	15	400m	10uØ	6.0	1 0m	65	650nb	25	700m	20p	A△	TO5 A
84	2N3427	200m	4.0M△	2.7m	#S	45	30 §	30	500m	50u	6.0Ø	1 0m	200 △	500n☑b	35 ☑		20p☑		TO5 A
85#	AC182	200m	4.0M§	3.3m	#S	32	18 §	10	150m	15uØ	6.0	1 0m	110 *					A	R178
86	2N1175	200m	4.2M	3.3m	#J	35	25 §	10	200m	12uØ	5 0	1.0m	80	450nb	28	5.9	26p	AØ	TO5 A§
87	2N1175A	200m	4 2M	3.3m	#J	35	25 §	10	200m	12uØ	5.0	1.0m	80	450nb	28	5.9	26p	AØ	TO5 A§
88	2N508A	200m	4.5M	3.3m	#J	30	30 Ø	10	200m	7.0uØ	1 0Ø	20mØ	120 †	400nb	28	7.0	18p	AØ	TO5 A§
89	2N1190	200m	4.5M	2.6m	#J	45	30 §	15	500m	50u	6 0Ø	1.0m	190	100nb	31		12p	A	TO5 A
90	2N1354†	200m	4.5M	3.3m	#J	30	15	20	200m	6.0uØ	1 0Ø	10mØ	70 †	b		90	12p	A	TO5 A
91	2N383	200m	5.0M	5.0m	#J	50	25 §	20	400m	10uØ	5 0Ø	10mØ	90 △	380u	550	7 2	20p	AØ	TO5 A
92	2N396A†	200m	5 0M	3.3m	#S	30	20	20	200m	6.0uØ	1.0Ø	10m	30 †△				20p☑		TO5 A§
93	JAN2N396A	200m	5.0M△	3.3m	#S	30	20	20	200m	100u	1.0Ø	10mØ	30 †△				20p☑		TO5 A
94	2N1348	200m	5.0M	3.3m	#	40		25	400m	10u	30Ø	10mØ	95 †				12p	A	TO5 A
95	2N1356†	200m	5.0M△	2.6m	#J	30	20	20	200m	6.0uØ	1 0Ø	10mØ	80 †			1.0	12p	A	TO5 A
96	2N1449	200m	5.0M	3.3m	#J	45	25	15	400m	10uØ	6 0	1.0m	80	770nb	25	1.1	20p	A△	TO5
97	2N1942†	200m	5.0M△	3.3m	#J	20	10	20	500m	1.5uØ	.20Ø	200mØ	20 †△#				20p☑		TO5 A
98	2N2172†	200m	5.0M△	3.3m	#S	20	15	10	400m	6.0uØ	1.0Ø	10mØ	30 †△						TO5 A
99	2N3428	200m	5.0M△	2.7m	#S	45	30 §	30	500m	50u	6.0Ø	1.0m	350 △	500n☑b	35 ☑		20p☑		TO5 A
100	40403†	200m	5.0M§△	3.0m	#S	30	20	20	200m	6 0uØ	1.0Ø	10mØ	150 †☑				20p☑	A	TO5 A
101▼	HSE110-RT	200m	5.0M§	2.6m	#J	40	15	25		15u	1.0Ø	10mØ	20 †△						TO5 A
102▼	HSE117-RT	200m	5.0M§	2.6m	#J	25	15	6.0		10u	1.0Ø	50mØ	95 †△						TO5 A
103▼	HSE112-RT	200m	5.5M§	2.6m	#J	40	15	25		15u	1.0Ø	10mØ	40 †△						TO5 A
104▼	HSE114-RT	200m	6.0M§	2.6m	#J	40	15	25		15u	1.0Ø	10mØ	80 †△						TO5 A
105#	2G138	200m	7.0M	3.3m	#J	15	10	15	200m	6.0uØ	5.0Ø	1.0m			575	1.8	12p	AØ	TO5
106▼	HSE116-RT	200m	7.0M§	2.6m	#J	40	15	25		15u	1.0Ø	10mØ	200 †△						TO5 A
107#	2G139	200m	8.0M	3.3m	#J	15	10	15	200m	6.0uØ	5 0Ø	1 0m			1.0k	1.5	12p	AØ	TO5
108	2N1350	200m	8.0M	3 3m	#J	50		25	400m	20u	.30Ø	10mØ	95 †				12p	A	TO5 A
109	2N1351	200m	8.0M	3.3m	#	40		25	400m	10u	30Ø	10mØ	65 †				12p	A	TO5 A
110	2N1355†	200m	8.0M	3 3m	#J	30	20	20	200m	6 0uØ	1 0Ø	10mØ	80 †	b		100	12p	A	TO5 A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N398B	250m	1.0M	3.3m	#A	105	105 Ø	75	200m	6.0uØ	.25Ø	5.0mØ	20 †Δ					AΔ	TO5	A
2#	2SB189	250m	1.0M	5.0m	ØJ	25		12	250m	14uØ	1.0Ø	100m	70 †				35p	A	R194	
3	2SB476	250m	1.2M§	3.8m	#J	20	10	6.0	2	500u	0.0	2	75 †					A	TO39	
4#	2SB476S	250m	1.2M§	3.8m	#J	20	10	10	2.0	500u	0.0	2.0	80 †Δ					A	TO39	
5#	2SB476W	250m	1.2M§	3.8m	#J	20	10	10	2.0	500u	0.0	2.0	100 †Δ					A	TO39	
6#	2SB533	250m	1.2M§	4.2m	#J	20	10	12	2.0	200u	0.0	2.0	75 †Δ					A	TO39	A
7	2N597	250m	3.0MΔ	3.3m	#J	45	40 Ø	45	500m	25u	1.0Ø	100mØ	40 †Δ				20p☑	AΔ	TO5	AØ
8	2N1997†	250m	3.0MΔ	3.3m	#S	45	15	45	500m	5.0uØ	1.0Ø	100mØ	40 †Δ				20p☑		TO5	A
9	2N2930†	250m	4.0M§Δ	3.3m	#S	30	12	20	500m	7.0uØ	.50Ø	10mØ	60 †Δ				20p☑		TO5	A
10	2N598†	250m	5.6M§Δ	3.3m	#J	35	35 Ø	30	500m	25u	1.0Ø	100mØ	70 †Δ				20p☑		TO5	AØ
11	JAN2N598†	250m	5.6M§Δ	3.3m	#S	35	35 Ø	30		25u	1.0Ø	200mØ	50 †Δ				20p☑		TO5	AØ
12	2N1998†	250m	5.6M§Δ	3.3m	#S	35	15	30	500m	5.0uØ	1.0Ø	100mØ	70 †Δ				20p☑		TO5	A
13	2N1174†	250m	7.0M	3.3m	#J	35		35	200m	10uØ	10Ø	500uØ	85	170nb	56	8.3	15p	AØ	TO29	
14	2N1478	250m	8.0M	3.3m	#J	30	20	20	500m	5.0uØ	1.0Ø	100mØ	70 †				15p	AΔ	TO9	AØ
15	2N599†	250m	10M§Δ	3.3m	#J	30	20 Ø	20	500m	25u	1.0Ø	200mØ	75 †Δ				20p☑	A	TO5	AØ
16	JAN2N599†	250m	10M§Δ	3.3m	#S	30	20 Ø	20		25u	1.0Ø	200mØ	75 †Δ				20p☑		TO5	Ø
17	2N1999†	250m	10M§Δ	3.3m	#S	30	15	20	500m	5.0uØ	1.0Ø	100mØ	100 †Δ				20p☑		TO5	A
18	2N2374	250m	15M	3.0m	#	35	35 Ø	35	500m	100u	12	2.0mØ	140	90u	3.0k	8.7	14p	A	TO5	A
19	2N1495†	250m	150M§Δ	3.3m	#S	40	25	4.0	500m	7.0uØ	.50Ø	200mØ	25 †Δ				6.5p☑		TO9	AØ
20	2N1495A	250m	150M§Δ	3.3m	#S	40	25	4.0	500m	2.0uØ	.50Ø	200mØ	25 †Δ				6.5p☑		TO9	AØ
21	JAN2N1195	250m	400M§Δ	3.3m	#S	30	20	1.0	40m	5.0uØ	10	10m	24 Δ	20u☑b	10 ☑	30 ☑	2.0p☑		TO5	A
22#	ACY41†	260m	600k§	4.0m	#J	32	18	12	500m	100u	6.0Ø	1.0mØ	90					AØ	TO5	§
23#	ACY40†	260m	800k§	4.0m	#J	32	18	12	500m	100u	6.0Ø	1.0mØ	45					AØ	TO5	§
24#	ACY17†	260m	1.0M§	4.0m	#J	70	32	12	500m	100u	6.0Ø	1.0mØ	85					AØ	TO5	§
25#	ACY18†	260m	1.0M§	4.0m	#J	50	30	12	500m	100u	6 0Ø	1.0mØ	60					AØ	TO5	§
26#	ACY20	260m	1 0M§	4.0m	#J	40	20	12	500m	100u	6.0Ø	1.0mØ	85					AØΔ	TO5	§
27#	ACY22†	260m	1.0M§	4.0m	#J	20	15	12	500m	100u	6.0Ø	1.0mØ	75					AØ	TO5	§
28#	ACY39†	260m	1.0M§	4.0m	#J	110	40	25	500m	100u	6.0Ø	1.0mØ	85					AØ	TO5	§
29#	ACY44	260m	1.0M§	4.0m	#J	50	30	12	500m	100u	6.0Ø	1.0mØ	60					AØΔ	TO5	§
30#	ACY19†	260m	1.3M§	4.0m	#J	50	30	12	500m	100u	6.0Ø	1.0mØ	140					AØ	TO5	§
31#	ACY21	260m	1.3M§	4 0m	#J	40	20	12	500m	100u	6.0Ø	1.0mØ	140					AØΔ	TO5	§
32	2N2207	260m	140MΔ	5.2m	ØS	70	50	.50	50m	10uØ							2.3pt☑		TO7	H
33#	2SB377	270m	1.4MΔ		#J	32	30 §		150m	10u	6.0Ø	.50m	134					AØ	TO5	
34#	2SB383	270m	3 0M		#J	32	30 §		500m	10u	1.0Ø	20mØ	84 †					A	TO5	
35	2N2706	280m	2.5M§	3.3m	#	32	32	10	200m	10u	0.0	50m	115 †	155u	3.9k	11.		ADØ	TO1	A
36#	OC122	295m	1.3M§	4.5m	#J	32	32	12	500m	500u	2.0Ø	100mØ	180 †					AΔ	TO7	H
37#	OC123	295m	1.5M§	4.5m	#J	50	50	15	500m	500uØ	2.0Ø	100mØ	160 †					AΔ	TO7	H
38	2N672†	300m		5.0m	#J	25	25 Ø	25	2.0	25uØ								A	R2	A☑
39	2N1008	300mØ		2.7m	#S	20	20	15	300m	10uØ	5.0Ø	10mØ	40 Δ		1.0k☑				TO5	A
40	2N1008A	300mØ		2.7m	#S	40	40	15	300m	10uØ	5.0Ø	10mØ	40 Δ		1.0k☑				TO5	A
41	2N1008B	300mØ		2.7m	#S	60	60	15	300m	15uØ	5.0Ø	10mØ	40 Δ		1.0k☑				TO5	A
42	2N1176	300mØ		5.0mØ	#S	10	10 §	10	300m	25u	5.0Ø	10mØ	20 Δ		2.0k☑				TO5	A
43	2N1176A	300m			#J	40	40		300m		5.0Ø	10mØ	20 Δ					A	TO5	A
44	2N1176B	300m			#J	60	60		300m		5.0Ø	10mØ	20 Δ					A	TO5	A
45	2N1287	300mØ		2.5m	#S	25	25 §	15	300m	15uØ	5.0Ø	10mØ	40 Δ						F15	CØ
46	2N1287A	300mØ		2.5m	#S	25	25 §	15	300m	15uØ	5.0Ø	10mØ	60 Δ						F15	CØ
47	2N2100A†	300m		4.0m	#S	40	20	4.0	500m	12uØ	1.0Ø	200mØ	30 †Δ				20p☑		TO9	
48	2N674	300m	400kΔ	5.0m	#J	75	75	70	2.0	100uØ	1.5Ø	1.0 Ø	40 Δ					AΔ	R2	A☑
49	2N1124	300m	400kΔ	5.0m	#J	40	35 Ø	40	250m	75u	6.0	10m	40 Δ	5.0 ☑b	7.0	5.5		AΔ	R2	A☑
50	2N670	300m	700k		#J	40	40	40	2.0	25uØ	1.5Ø	1.0 Ø	100					A	R2	A☑
51#	NKT223	300m	.75MΔ	5.0m	#J	30	30 §	10	500m	10uØ	4.5Ø	1.0mØ	50 Δ				60p☑		TO5	AØ
52#	NKT224	300m	.75MΔ	5.0m	#J	30	30 §	10	500m	10uØ	4.5Ø	1.0mØ	30 Δ				60p☑		TO5	AØ
53#	NKT225	300m	.75MΔ	5.0m	#J	30	30 §	10	500m	10uØ	4.5Ø	1.0mØ	15 Δ				60p☑		TO5	AØ
54#	NKT229	300m	.75MΔ	5.0m	#J	30	30 §	10	500m	10uØ	4.5Ø	1.0mØ	85 Δ				60p☑		TO5	AØ
55	2N1125	300m	1.0MΔ	5.0m	#J	40	40 Ø	40	250m	75u	1.0Ø	500mØ	50 Δ					AΔ	R2	A☑
56#	AC180	300m	1.0M§Δ	4.0m	#S	32	24 §	10	1.0	20uØ	1.0	600mØ	110 †#*					A*	R178	
57#	NKT237	300m	1.0M	5.0m	#J	70	32	12	1.0	100u	0.0	300m	50 †Δ				40p	A	TO5	
58#	NKT238	300m	1.0M	5.0m	#J	50	30	12	1.0	100u	0.0	300m	40 †Δ				40p	A	TO5	
59#	NKT239	300m	1.0M	5.0m	#J	50	30	12	1.0	100u	0.0	300m	80 †Δ				40p	A	TO5	
60#	NKT240	300m	1.0M	5.0m	#J	40	20	12	1.0	100u	0.0	50m	50 †Δ				40p	A	TO5	
61#	NKT241	300m	1.0M	5.0m	#J	40	20	12	1.0	100u	0.0	50m	90 †Δ				40p	A	TO5	
62#	NKT242	300m	1.0M	5.0m	#J	20	15	12	1.0	100u	0.0	300m	30 †Δ				40p	A	TO5	
63#	NKT243	300m	1.0M	5.0m	#J	110	40	12	1.0	100u	0.0	300m	50 †Δ				40p	A	TO5	A
64#	NKT244	300m	1.0M	5.0m	#J	32	18	12	1.0	100u	0.0	300m	30 †Δ				40p	A	TO5	A
65#	NKT245	300m	1.0M	5.0m	#J	32	18	12	1.0	100u	0.0	300m	50 †Δ				40p	A	TO5	A
66#	2SB461	300m	1.2M		ØJ	35	30 §	12	400m	20uØ	1.0Ø	400mØ	80 †					A	TO5	A
67#	ASY48IV†	300m	1.2M§	3.3m	$J	64	45	16	300m	18u	.50Ø	100mØ	45 †				25p	A	TO1	B
68#	ASY48V†	300m	1.2M§	3.3m	$J	64	45	16	300m	18u	.50Ø	100mØ	75 †				25p	A	TO1	B
69#	ASY48VI†	300m	1.2M§	3.3m	$J	64	45	16	300m	18u	.50Ø	100mØ	110 †				25p	A	TO1	B
70	40396/P	300m#Ø	1.5M	10m	#J	18	18 §	2.5	500m	14uØ	1.0Ø	50mØ	50 †Δ						TO1	
71#	AC121IV	300m	1.5M§	3.3m	#J	20	20	10	300m	25u	.50Ø	100mØ	45 †				25p	A	TO1	B
72#	AC121V	300m	1.5M§	3 3m	#J	20	20	10	300m	25u	.50Ø	100mØ	75 †				25p	A	TO1	B
73#	AC121VI	300m	1.5M§	3.3m	#J	20	20	10	300m	25u	.50Ø	100mØ	110 †				25p	A	TO1	B
74#	AC121VII	300m	1.5M§	3.3m	#J	20	20	10	300m	25u	.50Ø	100mØ	190 †				25p	A	TO1	B
75#	AC151IV	300m	1.5M§	3.3m	#J	32	24	10	200m	25u	1.0Ø	2.0mØ	45	100u	750	9.0	27p$	A	TO1	B
76#	AC151rIV	300m	1.5M§	3.3m	#J	32	24	10	200m	25u	1.0Ø	2.0mØ	45	100u	750	9.0	27p$	AØ	TO1	B
77#	AC151rV	300m	1.5M§	3.3m	#J	32	24	10	200m	25u	1.0Ø	2.0mØ	75	140u	1.2k	13	27p$	AØ	TO1	B
78#	AC151rVI	300m	1.5M§	3.3m	#J	32	24	10	200m	25u	1 0Ø	2.0mØ	110	160u	1.8k	16	27p$	AØ	TO1	B
79#	AC151V	300m	1.5M§	3.3m	#J	32	24	10	200m	25u	1.0Ø	2.0mØ	75	140u	1.2k	13	27p$	A	TO1	B
80#	AC151VI	300m	1.5M§	3 3m	#J	32	24	10	200m	25u	1 0Ø	2.0mØ	110	100u	1.8k	16	27p$	A	TO1	B
81#	AC151VII	300m	1.5M§	3.3m	#J	32	24	10	200m	25u	1.0Ø	2.0mØ	170	160u	2.7k	19	27p$	A	TO1	B
82#	AC152IV	300m	1.5M§	3.3m	#J	32	24	10	500m	25u	.50Ø	100mØ	45 †				25p	A	TO1	B
83#	AC152V	300m	1.5M§	3.3m	#J	32	24	10	500m	25u	.50Ø	100mØ	75 †				25p	A	TO1	B
84#	AC152VI	300m	1.5M§	3.3m	#J	32	24	10	500m	25u	.50Ø	100mØ	110 †				25p	A	TO1	B
85#	AC153KV	300m*	1.5M§	22mØ	#J	32	18	10	2.0	200u		300m	75 †				100p	A		A
86#	AC153KVI	300m*	1.5M§	22mØ	#J	32	18	10	2.0	200u		300m	110 †				100p	A		A
87#	AC153KVII	300m*	1.5M§	22mØ	#J	32	18	10	2.0	200u		300m	190 †				100p	A		A
88#	AC153V	300m	1.5M§	3.3m	#J	32	18	10	2 0	200u	0	300mØ	75 †				100p	A	TO1	B
89#	AC153VI	300m	1.5M§	3.3m	#J	32	18	10	2.0	200u	0	300mØ	110 †				100p	A	TO1	B
90#	AC153VII	300m	1.5M§	3.3m	#J	32	18	10	2.0	200u	0	300mØ	190 †				100p	A	TO1	B
91#	ACY23V	300m	1.5M§	3.3m	#J	32	30	16	200m	18u	5.0Ø	1.0mØ	100 ☑	40u	3.0k	7.0	27p$	A	TO1	A
92#	ACY23VI	300m	1.5M§	3.3m	#J	32	30	16	200m	18u	5.0Ø	1.0mØ	150 ☑	40u	3.0k	7.0	27p$	A	TO1	A
93#	ACY32V	300m	1.5M§	3.3m	#J	32	30	16	200m	18u	5.0Ø	1.0mØ	100 ☑	40u	3.0k	7.0	27p$	AØ	TO1	A
94#	ACY32VI	300m	1.5M§	3.3m	#J	32	30	16	200m	18u	5.0Ø	1.0mØ	150 ☑	40u	3.0k	7.0	27p$	AØ	TO1	A
95#	ACY33VI	300m	1.5M§	3.3m	#J	32	32 *	10	1.0	50u	0	300mØ	110 †				100p	A	TO1	A
96#	ACY33VII	300m	1.5M§	3.3m	#J	32	32 *	10	1.0	50u	0	300mØ	190 †				100p	A	TO1	A
97#	ACY33VIII	300m	1.5M§	3.3m	#J	32	32 *	10	1 0	50u	0	300mØ	260 †				100p	A	TO1	A
98#	ASY70IV†	300m	1.5M§	3.3m	$J	32	30	16	300m	18u	.50Ø	100mØ	45 †				25p	A	TO1	A
99#	ASY70V†	300m	1.5M§	3.3m	$J	32	30	16	300m	18u	.50Ø	100mØ	75 †				25p	A	TO1	A
100#	ASY70VI†	300m	1.5M§	3.3m	$J	32	30	16	300m	18u	.50Ø	100mØ	110 †				25p	A	TO1	A
101	2N2000†	300m	2.0M§Δ	4.0m	#S	50	15	20	1.0	10uØ	.30Ø	100mØ	50 †Δ				35p☑		TO5	A
102	2SB421	300m	2.5M	5.0m	#J	80	80 §	1.0	600m	50uØ	1.0Ø	150mØ	70 †				50p	D	R177d	
103	GT5151	300m	2 5M	4.0m		40	10	15		25u	.50Ø	1.0	40 †Δ				25p	AΔ	TO5	AØ
104#	NKT221	300m	3.5M	5.0m	#J	30	30	10	500m	40u	0.0	500mØ	30 †Δ	1.0u	65	12 ☑	40p	A	TO5	A
105#	NKT222	300m	3.5M	5.0m	#J	30	30	10	125m	40u	0.0	25mØ	50 †Δ	1.0u	65	12 ☑	40p	A	TO5	A
106#	NKT226	300m	3.5M	5.0m	#J	30	30	10	125m	40u	4.5Ø	1.0mØ	50 Δ	1.0u	65	12 ☑	40p	AØ	TO5	A
107#	NKT227	300m	3.5M	5.0m	#J	60	60	10	125m	40u	0.0	25mØ	50 †Δ	1.0u	65	12 ☑	40p	A	TO5	A
108#	NKT228	300m	3.5M	5.0m	#J	30	30	10	500m	40u	0.0	500mØ	30 †Δ	1.0u	65	12 ☑	40p	A	TO5	A
109	2N2001	300m	6.0M§Δ	4.0m	#S	30	15	20	1.0	6.0uØ	.30Ø	100mØ	100 †Δ				35p☑		TO5	A
110	2N2648†	300m	10M§Δ	4.0m	#C	30	25 #	30	1.0	100uØ♦	.50Ø	1 0 Ø	80 †Δ						TO5	AØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

3. GERMANIUM NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N1010	20m	2.0M	667u	*A	10	10	10	2.0m	10u	3 0Ø	30m	35					A Ø	TO1	A§
2	2N100	25m	5.0M		*A	25			5 0m	2.0uØ										
3	2N166	25m	5.0M		*	6.0			20m	5.0u	6.0	1 0m	32						R5	A
4	2N170	25m	5.0M	1 0m	*A	6 0			20m	5.0uØ	5 0Ø	1.0m	32	300ub	55	4.0	3.0f		R163	AE
5	2N35	50m			#A	25			8 0m		6.0Ø	1 0m	40 †						O3j	AE
6	2N213	50m			ØJ		25		100m	200uØ	6.0Ø	1 0m	70 †△					A	TO22	F
7	2N124	50m	300k	714u	Ø	10		5.0	8.0m	2 0u	5 0	1 0mØ	18				10p		O3e	
8	2N306	50m	600k△	1.0m	ØJ	20	15		2 0m	50u	6 0Ø	1.0mØ	25 †△					A	TO22	F
9	2N507	50m	600k△	1.0m	#J	40			100m	125u	50Ø	10mØ	50 t☑					A	TO22	F
10	2N103	50m	.75M		Ø	35			10m	50u	4.5	1.0m	4.0				20p	G	O3e	A
11	2N97	50m	1.0M		Ø	30			10m	2 0u	4.5	1 0m	13				19p	G△	TO5	A
12	2N98	50m	2.5M		Ø	40			10m	2 0u	4.5	1 0m	40				14p	G	O3e	A
13	2N194	50m	3.0M	1.0m	ØJ		18 §		100m	25u	6.0Ø	1.0mØ	8.0				11p	A	TO22	F
14	2N194A	50m	3.0M	1.0m	ØJ		18 §		100m	50u	6.0Ø	1.0mØ	8.0				11p	A	TO22	F
15	2N211	50m	3 0M	1 0m	ØJ		10		50m	20u	6.0Ø	1.0m	5.0				10p	A	TO22	F
16	2N216	50m	3.0M	1.0m	ØJ		18 §		50m	50u	6.0Ø	1.0mØ	7.5				11p	A	TO22	F
17	2N515	50m	3.0M	1.0m	ØJ		18		10m	50u	6.0Ø	1.0mØ	7.5				11p	A	TO22	F
18	2N516	50m	3.0M	1.0m	ØJ		18 §		10m	50u	6.0Ø	1.0mØ	7.5				11p	A	TO22	F
19	2N517	50m	3.0M	1.0m	ØJ		18		10m	50uØ	6.0Ø	1 0mØ	7.5				11p	A	TO22	F
20	TR194	50m	3.0M	1.0m	ØJ		15		50m		6.0	1.0m	8.0				10p	A		
21	TR216	50m	3 0M	1.0m	ØJ		15		50m		6.0	1.0m	8.0				11p	A		
22	2N99	50m	3.5M		Ø	40			10m	2.0u	4.5	1.0m	40				10p	G△	O3e	A
23	TR193	50m	3.5M	1.0m	ØJ		15		50m				6 0					AB		
24	TR211	50m	3.5M	1.0m	ØJ		10		50m				30				10p			
25	2N125	50m	5.0M	1.4m	ØJ	10		5.0	8.0m	2.0u	5.0	1.0mØ	36	230nb	62	3.0	10p		O3e	
26	2N126	50m	5.0M	1.4m	ØJ	10		5.0	8.0m	2.0u	5.0	1.0m	20	b		90	14p		R26	
27	2N1058	50m	6.0M	1.0m	ØJ		20		50m	50u*	6.0Ø	1.0mØ	10 △				10p	A	TO22	F
28	TR212	50m	6.0M	1.0m	ØJ		10		50m		6 0	1.0m	10				10p	A		
29	2N169	55m	4.0M	1.1m	ØA	15	15		20m	5.0u							2 4p	G	O17	A
30	2N169A	55m	5.0M	1.1m	ØA	25	25		20m	5.0u							2.4p	G	O17	A
31	2N168	55m	6.0M	1.1m	ØA	15	15		20m	5.0u							2.4p	G	O17	A
32	2N78A	65m		1.1m	#S	20	20	5.0	20m	3.0uØ									O5	A
33	2N145	65m		1.4m	ØJ	20			5.0m	3 0u	9.0	1 0mØ					1.0p	G	O3e	
34	2N146	65m		1.4m	ØJ	20			5.0m	3.0u	9.0	1.0mØ					1.0p	G	O3e	
35	2N147	65m		1.4m	ØJ	20			5.0m	3.0u	9.0	1.0mØ					1.0p	G	O3e	
36	2N148	65m		1.4m	ØA	16			5.0m	3.0uØ	12	500uØ	35 §				3.0pØ☑	G		
37	2N172	65m		1.4m	ØJ	16			5.0m	3.0u	9.0	1.0mØ					1.0p	G	O3e	
38	2N253	65m		1.4m	ØA	12			5 0m	3.0u							1.0p		O3e	A
39	2N254	65m		1.4m	ØA	20			5.0m	3.0u							1.0p		O3e	A
40	JAN2N78A	65m	3.4M§△	920u	#S	20	20	5.0	20m	3.0uØ	1.0Ø	1.0mØ	45 †△#	b		140 ☑	6.0pØ☑		O17	A
41	2N164	65m	4.0M△		#J	15	15	1.0	30m	5.0u	1.0Ø	1.0mØ	80 ☑				10p		TO5	A
42	2N165	65m	5.0M	1.1m	#J	15	15		20m	5.0u	1.0Ø	.02m△	72 †				2.4p	G	R5	
43	2N292	65m	5.0M	1.1m	#S	15	15		20m	5 0u	1 0Ø	1.0mØ	25 †	67u		1.0	2.4p	G	O5	
44	2N448	65m	5.0M	1.1m	#S	15	15		20m	5.0u	1 0Ø	1.0mØ	25 †	67u		1.0	2.4p	G	O5	
45	TR213	65m	5.0M	1.1m	#J		15		20m	50uØ	5.0	1 0m	25				2.4p	G		
46	2N167†	65m	8.0M	1.1m	#S	30	30	5 0	75m	1 5uØ	5.0Ø	1.0m	975m	200nb	40	1.5	4 0p$		O17a	
47	2N168A	65m	8.0M	1.1m	#A	15	15		20m	5 0u							2.4p	G	O17	A
48	2N293	65m	8.0M	1 1m	#S	15	15		20m	5 0u	1 0Ø	1.0mØ	25 †	67u		.50	2 4p	G	O5	
49	2N449	65m	8.0M		#J		15		20m	5.0u		1.0mØ	72 †						O17	
50	2N1086	65m	8.0M	1.1m	#J	9 0	9.0		20m	3 0uØ	5.0Ø	1 0mØ	40					G	O5	A
51	2N1086A	65m	8.0M	1.1m	#J	9.0	9 0		20m	3.0uØ	5.0Ø	1 0mØ	40					G	O5	A
52	2N1087	65m	8.0M	1.1m	#J	9.0	9.0		20m	3 0uØ	5.0Ø	1.0mØ	40					G	O5	A
53	2N1121	65m	8.0M		#J		15		20m	5.0u		1.0mØ	34 †						O5	A
54	TR167	65m	8.0M	1.1m	#S	30		5 0	75m	80uØ	5 0	1.0m	25			4.0				
55	2N78	65m	9.0M	1.1m	#S	15	15	5.0	20m	3.0u	5.0	1 0m	58	200nb	55	2 0	6.0p		O5	
56	2N1198	65m	9.0M	1.1m	#J	25	25	5.0	75m	1 5uØ	1.0Ø	8.0mØ	30 †	200nb	82 ☑	1.5	2.5p		O17a	A
57	JAN2N167At	70m	5.0M△	1.1m	#A		27	5.0	75m	2.0u	1.0Ø	5 0mØ	17 †△				6.0pØ☑		O5	A
58	2N312	75m			#J	15	15	6.0		60u†	5.0Ø	10m	25 △					A△	R157	A
59	2N1510	75m		1.3m	#J	75	70 §	8.0	20m	5 0u	1.0	1 0mØ	30 †					G	O5	
60	2N167A	75m	9.0M	1.2m	#S	30	30	5.0	25m	1.5uØ	1 0	8.0mØ	30 †	200nb	55	1.5	6.0p	△	O5	
61	2N1217	75m	9.0M	1.3m	#S	20	20	5.0	25m	1.5uØ	1.0Ø	2 0mØ	60 †				2.5p	△	O5	A
62	2N1694†	75m	9 0M	1 3m	#J	20	20	10	25m	1 5uØ	1.0Ø	2.0mØ	25 †				2.5p		TO5	A
63	2N1288	75m	60.M		#J	15		5.0	50m	5.0u			100 †				3.0p	△	TO39	
64	GT905R	90m		1.8m	ØS		18			6 0uØ	4.5	1.0m	40				14p	§		
65	GT949R	90m		1.8m	ØS		12			6 0uØ	4.5	1.0m	120				14p			
66	2N556†	100m			#J	25		10	200m	25u△	20Ø	1.0m△	30 †△				20pØ☑		TO5	A
67	2N557†	100m			#J	20		10	200m	25u△	.20Ø	1.0m△	20 †△				20pØ☑	A	TO5	A
68	2N558†	100m			#J	15		5.0	200m	25u△	.20Ø	1.0m△	60 †△				20pØ☑	A	TO5	A
69	2N646	100m		1.7m	#S	25	25	12	50m	14u	1.5Ø	30m	50 †△				40p		TO40	
70	2N647	100m		2.0m	ØA	25	25	12	50m	14u	1.0Ø	50mØ	70 †					A	TO1	A
71	2N649	100m		2.0m	ØA	20	18	2.5	50m	14uØ	1.0Ø	50mØ	65 †					A	TO1	A
72	TR03	100m			#S	20			200m	25u	.20Ø	1.0mØ	53							
73	TR05	100m			#S	20			200m	25u	.20Ø	1 0m	30					A		
74	TR07	100m				15			200m	25u	.20Ø	1 0m	40					A		
75	2N444	100m	.50M△	2.0m	#S	15	15			2 0uØ	4.5Ø	1.0m	15				13p	A	TO5	A§
76	TR09	100m	.70M		#S	30			200m	25u	3.5Ø	1.0mØ	30					A		
77	2N445	100m	2.0M△	2.0m	#S	15	12			2.0uØ	4.5Ø	1.0m	35				13p	A	TO5	A§
78	SK3010-RT	100m	2.0M§			25	25	12	100m		1.0Ø	50mØ	120 †					A	TO1	A
79	2N438†	100m	2.5M△	1.7m	#J	30	25	25		10uØ	6.0	1.0m	25		1.0k		9.0p$		TO5	A
80	2N1367	100m	2.5M§△	1.6m	#S	18		3.0	25m	15uØ	6.0Ø	1.0mØ	10 †△				14pØ☑		TO5	AØ
81	2N356†	100m	3.0M§	2.0m	#S	20	18	20	500m#	5.0uØ	5.0Ø	1.0mØ	30				14p	A	TO5	A§
82	2N182	100m	3.8M	2.0m	Ø	25		15			6.0	1.0m	25				10p	A	R8a	A
83	TR182	100m	3.8M	2.0m	ØJ	25		15		3.0uØ	6.0Ø	1.0m	25			10		AB		
84	2N164A	100m	4.0M△		#J	15	15	1.0	30m	5.0u	1.0Ø	1.0mØ	80 ☑				10p		TO5	A
85	TR04	100m	4.0M		ØS	20			200m	25u	.20Ø	1.0mØ	30					A		
86	TR08	100m	4.0M		#S	20			200m	20u	3 5Ø	1.0mØ	30					A		
87	GT792	100m	4.8M	2 0m	#S	20			100m	6.0uØ	5 0	5.0m	37 †△					A	TO9	
88	2N292A	100m	5.0M		#J	15	15	50	20m	5.0u	1.0Ø	1.0mØ	51 ☑				10p		TO5	A
89	2N439†	100m	5.0M△	1.7m	#J	30	20	25		10uØ	6.0	1.0m	35		1.5k		9.0p$	A	TO5	A
90	2N446	100m	5.0M△	2.0m	#S	15	10			2 0uØ	4 5Ø	1 0m	60				13p	A	TO5	A§
91	2N1366	100m	5.0M§△	1.6m	#S	18		3 0	25m	15uØ	6.0Ø	1 0mØ	20 †△				18pØ☑		TO5	AØ
92	2N357†	100m	6.0M§	2 0m	#S	20	15	20	500m#	5 0uØ	5 0Ø	1 0mØ	45				14p	A	TO5	A§
93	2N183	100m	7.5M	500u	Ø	25		15			6.0	1 0m	40				10p	A	R8a	A
94	TR183	100m	7.5M	2.0m	ØJ	25		15		3.0uØ	6.0Ø	1 0m	40			10		AB		
95	2N358†	100m	9.0M§	2 0m	#S	20	12	20	500m#	5 0uØ	5.0Ø	1.0mØ	60				14p	A	TO5	A§
96	2N447	100m	9.0M△	2.0m	#S	15	6 0			2.0uØ	4.5Ø	1.0m	125				13p	A	TO5	A§
97	2N440†	100m	10M△	1.7m	#J	30	15	25		10uØ	6 0	1 0m	65		2.5k		9 0p$	A	TO5	A
98	2N184	100m	15M	500u	Ø	25		15			6 0	1.0m	60				10p	A	R8a	A
99	TR184	100m	15M	2.0m	ØJ	25		15		3.0uØ	6 0Ø	1 0m	60				10p	AB		
100	2N1311	120m		2.0m	#J	75		20		7 0uØ	.25Ø	5.0mØ	15 †△	2 0uØb		15 ☑		△	TO5	A
101	2N1312	120m		2.0m	#J	50		20		7 0uØ	.25Ø	20mØ	20 †△	2.0uØb		15 ☑		△	TO5	A
102	2N1622	120m		2.0m	#S	90	90 Ø	20		7.0uØ	25Ø	5 0mØ	40 †△	2 0uØb	15 ☑				TO5	A
103	2N1310	120m	1.0M	2.0m	#S	90		20		25u	5.0	1.0m	35	1 0ub	35	5.0	11p		TO9	A
104	JAN2N1310	120m	1 0M△	2 0m	#S	90		20		7 0uØ	.25Ø	5.0mØ	20 †△	2.0ub		15			TO9	A
105#	2SD64	120m	1.0M		ØJ	25	20 §		100m	15u	1.0Ø	10mØ	100 †	250nb	28	1 2	35p	A	R14	
106#	2SD65	120m	1.0M		ØJ	25	20 §		100m	15u	1 0Ø	10mØ	50 †	250nb	28	1 2	35p	A	R14	
107	2N1672	120m	2.0M△	2.0m	#J	40	40	10			6.0	1.0m	15 △		4.0k☑			A	TO5	F
108	2N1672A	120m	2.0M△	2.0m	#S	40	40	10			6 0Ø	1 0m	15 △		4 0k☑		4.0p$☑		TO5	A
109	GT1201	120m	3.0M△	2 0m	#S	75		20		25u	.25Ø	1.0m△	30 †	500nb	35	8.0	9.0p	A		
110	SK3011-RT	120m	3.0M§△			25	15	20	200m		.20Ø	20mØ	20 †△					A	TO5	A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

3. GERMANIUM NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1	2N2354	180m		3.0m	#S	20	15 §	10	150m	50u	1.5Ø	35mØ	50 †Δ						TO22	F	
2	2N1059	180m	10k†	3.6m	ØJ	40	15 §		100m	50u	6.0Ø	35mØ	75 †						TO22	F	
3	2N1101	180m	10k†Δ	3.6m	ØJ	20	15		100m	50u	1.6Ø	35mØ	40 †						TO22	F	
4	2N1102	180m	10k†Δ	3.6m	ØJ	40	25		100m	50u	1.6Ø	35mØ	40 †						TO22	F	
5	2N1431	180m	10k†Δ		ØJ	20	15	10	100m	50u	1.5Ø	35mØ	75 †Δ						TO22	F	
6	2N214A	180m	100k	3.0m	J	40	25	10	100m	50u	1.5Ø	35mØ	100	50u	500	10	28p	A	TO5		
7	2N213A	180m	150k	2.5m	ØJ	40	25 §	10	100m	50u	6.0Ø	1.0mØ	185	50u☑	5.5k		10p	A	TO22	F	
8	2N1102/5	180m	150k	3.5m	ØJ	40			100m	50u	1.5	35mØ	40					A	TO5		
9	2N228	180m	.60M	3.3m	#J	40	15 §	10	100m	100u	6.0Ø	1.0mØ	80		2.3k			A	TO22	F	
10	2N229	180m	.60MΔ	3.0m	#J	10	10 §	20	100m	100u	6.0Ø	1.0mØ	75					A	TO22	F	
11	2N214	180m	.80M	3.0m	#J	40	25	10	100m	50u	1.5Ø	35mØ	75 †	50u☑	500	10 ☑	28p	A	TO22	F	
12#	2SD186	200m				20			150m	15u	1.5Ø	10mØ	150					A	TO1		
13#	2SD187	200m				25			150m	15u	1.5Ø	30mØ	150					A	TO1		
14▼	HSE111-RT	200m	2.0M§	2.6m	#J	30	15	20		10u	1.0Ø	10mØ	40 †Δ						TO5	A	
15#	AC172	200m	2.5M§	2.7m	#J	32	12	10	10m	10uØ	5.0Ø	500uØ	45 Δ				70p$	A	TO1	F	
16#	AC183	200m	3.5M§	3.3m	#J	32	18 §	10	150m	20uØ	6.0Ø	1.0m	50 Δ						TO1		
17	2N576†	200m	5.0M	2.6m	#J	20	20	15	400m	20u	.40Ø	400mØ	30 †				15p	A	TO5	A§	
18▼	HSE115-RT	200m	5.0M§	2.6m	#J	25	15	25		10u	1.0Ø	10mØ	100 †Δ						TO5	A	
19	2N1605A	200m	6.0M	2.6m	#	40		12	100m	10u	.25Ø	20m	60 †				15p	AΔ	TO5	A	
20	2N576A†	200m	8.0M	2.7m	#J	40		15	400m	40u	.40Ø	400mØ	30 †				15p	A	TO5	A§	
21▼	HSE109-RT	200m	8.0M§	2.6m	#J	40	15	25		15u	1.0Ø	10mØ	20 †Δ						TO5	A	
22▼	HSE113-RT	200m	10M§	2.6m	#J	40	20	20		10u	1.0Ø	10mØ	60 †Δ						TO5	A	
23#	NKT781	215m		3.3m	#J	32		5.0	1.0	30uØ	0.0Ø	50mØ	52 †Δ						TO1	A	
24#	AC185	225m	4.0M§	3.0m	#S	32	24 §	10	500m	20uØ	1 0Ø	200mØ	110 †*					A	R178		
25	JAN2N1173	250m		3.3m	#S	35	20	35	200m	10uØ	10Ø	500uØ	50 Δ				25p☑		TO29	A	
26#	2SD128A	250m			#J	32	30 §		500m	20uØ	1.0Ø	500mØ	46 †#Δ					A	TO1		
27	2N1173	250m	6.0M	3.3m	#J	35		35	200m	10uØ	10Ø	500uØ	80	190nb	56	7.0	20p	AØ	TO29		
28	2N1473	250m	8 0M	4.2m	#J	40	40 §	15	400m	5.0uØ	.60Ø	400m	50 †				15p	A	TO5	A§	
29	2N2430	280m	2 5M§	2.7m	#	32	32	10	500m	10u	0.0	50m	105				70p	A	TO1	A	
30#	2SD30	300m				25			200m	15u	1.5Ø	100m	150					A	TO1		
31#	AC181	300m	1.0M§Δ	4 0m	#S	32	24 §	10	1.0	200n	1.0Ø	600mØ	110 †#*					A*	R178		
32	40396/N	300m#Ø	2.0M	10m	#J	18	18 §	2.5	500m	14uØ	1.0Ø	50mØ	50 †Δ						TO1		
33	HA5020	300m	4.0M	2.2m	ØS	20		20	200m	5.0uØ	5.0	1.0m	49				15p	A			
34	HA5022	300m	4.0M	2.2m	ØS	25		25	200m	4.0uØ	5.0	1.0m	49				15p	A			
35	HA5024	300m	4.0M	6.6m	ØJ	20		20	200m	5.0uØ	5.0	1.0m	49				15p	AΔ			
36	HA5021	300m	5.0M	2.2m	*A	20		20	200m	10uØ	5.0	1 0m	49				15p	A			
37	HA5025	300m	6.0M	6.6m	ØJ	20		20	200m	5.0uØ	5.0	1.0m	49				15p	AΔ			
38	HA5023	300m	8.0M	2.2m	ØS	20					5.0	1.0m	49					A			
39	HA5026	300m	8.0M	6.6m	ØJ	20		20	200m	5.0uØ	5.0	1.0m	49				15p	AΔ			
40	2N1585	300m	400M	4.0m	#J	25		2.0	100m	100u	10Ø	10mØ	20 †				1 8p	ME	TO5		
41#	AC127	340m*	2.5M§	2.7m	#J	32	12	10	500m	15uØ	0.0	20mØ	100 †				70p$	A	TO1	F	
42#	AC127-01	340m*	2.5M§	4.0m	#J	32	12	10	500m	10uØ	0.0	500mØ	50 †				70p$	A	X9c	A	
43	PTC134-RT	350m	2.5M§Δ			36	36	14	500m	7.0u	10Ø	10mØ	120 †Δ						TO1	A	
44	HA5002	400m	1.0M	9.9	ØJ	20		20	200m	20uØ	5.0	1.0m	40					A			
45	HA5005	400m	1.0M	9.9	ØJ	10		10	200m	30uØ	5.0	1.0m	20				20p	A			
46	HA5012	400m	1.0M	9.9	ØJ	20		20	200m	20uØ	5.0	1.0m	40					A			
47	HA5016	400m	1.0M	9.9m	ØJ	30		30	200m	5.0uØ	5.0	1.0m	40					A			
48	HA5003	400m	1.5M	9.9	ØJ	30		20	200m	15uØ	5.0	1.0m	50					A			
49	HA5011	400m	1.5M	9.9	ØJ	40		30	200m	20uØ	5.0	1.0	50					A			
50	HA5014	400m	2.3M	9.9	ØJ	40		30	200m	20uØ	5.0	1.0m	80				40p	A			
51	HA5001	400m	2.5M	9.9	ØJ	30		20	200m	10uØ	5.0	1.0m	60				20p	A			
52	HA5009	400m	2.5M	9.9	ØJ	10		10	200m	30uØ	5.0	1.0m	15				40p	A			
53▼	FTR174	500m	1.0G§	4.0m	$J	35	35 $	3.0	30m	50n†Ø	10Ø	4.0mØ	60 †Δ				700f$	DPL†	TO92	C	
54#	AC176	700m	1.0M§Δ	25m	#J	32	32	5.0	1	30uØ	0.0	500m	180 †Δ					A	TO1		
55#	2SD72	720mØ	750k§		#J	25	25 §	6 0	600m	50u	1.0Ø	200mØ	80 †					A	TO1		
56♦#	AC187K	800m	3 0M§	13m	#J	25	15	10	1.0	200u	0.0	300m	200 †				150 $		X9d	A	

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N2337	150m	1.0M	1.0m	§J	50	35	50	100m	50u							20p☑	A	TO18	A
2	2N2372	150m	1.0M	714u	§J	15	15	15	50m	50u	4 0Ø	25uØ	15 Δ				15p☑	AØ	TO18	A
3	2N2373	150m	1.0M	714u	§J	15	15	15	50m	50u	4 0Ø	25uØ	20 Δ				15p☑	AØ	TO18	A
4	2N858†	150m	5.0M§Δ	1.3m	$S	40	40	25	50m	100nØ	6 0Ø	1 0m	15 Δ				12p☑		TO18	A
5	2N859†	150m	6 0M§Δ	1.3m	$S	40	40	25	50m	100nØ	6.0Ø	1.0m	30 Δ				9.0p☑		TO18	A
6	2N2274Ø	150m	6.0M§Δ	1.3m	$S	25	25	25	50m	3.0nØ	.50Ø	5.0mØ	10 †Δ				9.0p☑	Δ	R177	A
7	2N2275Ø	150m	6.0M§Δ	1.3m	$S	25	25	25	50m	3.0nØ	.50Ø	5.0mØ	10 †Δ				9.0p☑	Δ*	R177	A
8	2N2276	150m	6.0M§Δ	1.3m	$S	15	10	10	50m	3.0nØ	.50Ø	5.0mØ	10 †Δ				9.0p☑	Δ	R177	A
9	2N2277	150m	6 0M§Δ	1.3m	$S	15	10	10	50m	3.0nØ	.50Ø	5.0mØ	10 †Δ				9.0p☑	Δ*	R177	A
10	2N3317Ø	150m	6.4M§Δ	1.3m	$S	30	30	30	50m	1.0nØ	6.0Ø	1.0m	1.6				9.0p☑		R177	
11	2N860†	150m	6.5M§Δ	1.3m	$S	25	25	20	50m	100nØ	6.0Ø	1.0m	15 Δ				9.0p☑		TO18	A
12	2N496	150m	7.2M§Δ	1.3m	$J	10	10		50m	100nØ	6 0Ø	1 0m	9.0 Δ	4.0u☑b	100 ☑		12p☑	Δ	TO1	A
13	JAN2N1119†	150m	7.2M§Δ	1.3m	$S	12	10 #	12		100nØ	.50Ø	15mØ	15 †Δ				9.0p☑	☑	TO5	A
14	2N2378	150m	7.2M§Δ	1.3m	$S	10	10	10	50m	100nØ	.50Ø	15mØ	15 †Δ				12p☑	Δ	TO18	A
15	JAN2N2378	150m	7.2M§Δ	1.3m	$S	10	10	10		100n	50Ø	15mØ	15 †Δ				12p☑		TO18	A
16	2N861†	150m	7.5M§Δ	1 3m	$S	25	25	20	50m	100nØ	6.0Ø	1.0m	30 Δ				9.0p☑		TO18	A
17	2N3318Ø	150m	7.6M§Δ	1.3m	$S	15	15	15	50m	1.0nØ	6.0Ø	1.0m	1.9				9.0p☑		R177	
18	2N495	150m	8.0M*Δ	1.2m	$J	25	25		50m	1.0u	6.0	1.0m	15 Δ	2.5ub	90		7.0p	A	TO1	A
19	2N862†	150m	8.0M§Δ	1.3m	$S	15	15	10	50m	100nØ	6.0Ø	1.0m	20 Δ				9.0p☑		TO18	A
20	JAN2N1118	150m	8.0M*Δ	1.3m	$A	25		20		1.0u	6.0	1.0m	15 Δ	2 5u☑b	90 ☑		9.0p☑		TO5	A
21	2N2377	150m	8.0M*Δ	1.3m	$S	25	25	10	50m	1.0uØ	6.0Ø	1.0m	15 Δ	25u☑b	90 ☑		12p☑	Δ	TO18	A
22	JAN2N2377	150m	8.0M*	1.3m	$S	25	25	10		1.0u	6.0Ø	1.0m	15 Δ	2.5ub	90 ☑		12p☑		TO18	A
23	2N863†	150m	10M§Δ	1.3m	$S	15	15	10	50m	100nØ	6.0Ø	1.0m	40 Δ				9.0p☑		TO18	A
24▼	HSE301-RT	150m	10M§Δ	1.5m	♦J	30	20	5.0		100nØ	5.0Ø	10mØ	40 †Δ						R124d	A
25	2N3319Ø	150m	12M§Δ	1.3m	$S	10	6.0	10	50m	3.0n	6.0Ø	1 0m	3.0				10p☑		R177	
26	2N864†	150m	16M§Δ	1 3m	$S	6.0	6 0	6.0	50m	100nØ	6.0Ø	1.0m	25 Δ				9.0p☑		TO18	A
27	2N1118A	150m	18M*	1.3m	$J	25	25	10	50m	1.0u	6.0Ø	1.0m	25	1.5ub	50		6.0p	A	TO5	A
28	2N2165	150m	18M§	1 3m	$S	30		30		20nØ	6.0Ø	1.0m	25				6.0p	S	TO5	A
29	2N2166	150m	18M§	1.3m	$S	15		15		20nØ	6.0Ø	1 0m	25				6.0p	S	TO5	A
30	2N1119†	150m	20M§	1.3m	$	10	10	10	50m	100n	.50	15m	25 †				6.0p	PA	TO5	A
31	2N2162Ø	150m	20M§	1.3m	$S	30		30		10nØ	3.0Ø	1.0m	35				6.0p	S	TO5	A
32	2N2163Ø	150m	20M§	1.3m	$S	15		15		10nØ	3.0Ø	1.0m	35				6.0p	A	TO5	A
33	2N1118	150m	21M*	1.3m	$	25	25	.10	50m	1 0u	6.0Ø	1.0m	30	35u	1.4k	3.5	6.0p	PA	TO5	A
34	2N865†	150m	24M§Δ	1.3m	$S	10	10	6.0	50m	100nØ	6 0Ø	1.0m	100 Δ				9.0p☑		TO18	A
35#	BFV25	150m	30M§Δ	1 1m	§S	60	45	6.0	30m	50nØ	5.0Ø	1.0m	60 Δ				6.0p☑	PEØ	S5a	P
36#	BFV26	150m	30M§Δ	1.1m	§S	60	45	6.0	30m	50nØ	5.0Ø	1.0m	150 Δ				6.0p☑	PEØ	S5a	P
37	2N2167	150m	36M§	1.3m	$S	12		12		20nØ	6.0Ø	1.0m	38				6.0p	S	TO5	A
38	2N2164Ø	150m	44M§	1.3m	$S	12		12		20nØ	3 0Ø	1.0m	40				6.0p	S	TO5	A
39#	2SA429	150m	100M§		♦J	150	150 Ø	3.0	30m	1.0uØ	2.0Ø	2.0mØ	60 †				4.0p	PL	R67a	B
40#	2SA429G†	150m	100M§	1.7m	♦J	150	150	5.0	30m	100nØ	3.0Ø	10mØ	240 †☑				3.0p	D	R67a	
41#	2SA628†	150m	100M§	1 5m	♦J	30	25	4.0	100m	1.0uØ	6.0Ø	1 0mØ	100 †					PE†	TO92	D
42#	2SA628A†	150m	100M§	1.5m	♦J	60	60	4.0	100m	1.0uØ	6.0Ø	1.0mØ	100 †					PE†	TO92	D
43#	2SA725	150m	100M§	1.5m	♦J	35	35	5.0	100m	100nØ	6.0Ø	1.0mØ	600 †					PEØ	TO92	
44#	2SA726	150m	100M§	1 5m	♦J	50	50	5.0	100m	100nØ	6.0Ø	1 0mØ	600 †					PEØ	TO92	
45#	BFV30†	150m	140M§Δ	1.1m	§J	20	15	4.0	100m	50n§	1 0Ø	50mØ	15 Δ				7.0p☑	PE	S5a	P
46#	BFV33	150m	140M§Δ	1.0m	§J	25	20	5.0	50m	1.0u	10Ø	10mØ	30 Δ				5.0p☑	D	S5a	P
47#	BCW61BA†	150m	150M§	1.4m	§J		32	5 0	200m	20n§	5.0Ø	2.0mØ	200	18u	2.7k	1.5	6.0p☑	PEØ	X156a	A
48#	BCW61BB†	150m	150M§	1.4m	§J		32	5.0	200m	20n§	5.0Ø	2.0mØ	260	24u	3.6k	2.0	6.0p☑	PEØ	X156a	A
49#	BCW61BC†	150m	150M§	1 4m	§J		32	5.0	200m	20n§	5.0Ø	2.0mØ	330	30u	4.5k	2.0	6.0p☑	PEØ	X156a	A
50#	BCW61BD†	150m	150M§	1.4m	§J		32	5.0	200m	20n§	5.0Ø	2.0mØ	520	50u	7.5k	3.0	6.0p☑	PEØ	X156a	A
51#	BCX71BG†	150m	150M§	1.4m	§J		45	5.0	200m	20n§	5.0Ø	2.0mØ	200	18u	2.7k	1.5	6.0p☑	PEØ	X156a	A
52#	BCX71BH†	150m	150M§	1.4m	§J		45	5.0	200m	20n§	5 0Ø	2.0mØ	260	24u	3.6k	2.0	6.0p☑	PEØ	X156a	A
53#	BCX71BJ†	150m	150M§	1.4m	§J		45	5.0	200m	20n§	5.0Ø	2.0mØ	330	30u	4 5k	2 0	6.0p☑	PEØ	X156a	A
54#	BCX71BK†	150m	150M§	1.4m	§J		45	5.0	200m	20n§	5.0Ø	2.0mØ	520	50u	7.5k	3.0	6.0p☑	PEØ	X156a	A
55#	BFV20	150m	150M§Δ	1.0m	§J	40	30	5.0	600m	50nØ	10Ø	150mØ	40 †Δ				10p☑	PE	S5a	P
56#	BFV21	150m	150M§Δ	1 0m	§J	40	30	5.0	600m	50nØ	10Ø	150mØ	100 †Δ				10p☑	PE	S5a	P
57#	BFV22	150m	150M§Δ	1.0m	§J	50	50	5.0	600m	50nØ	10Ø	1.0mØ	80 †Δ				10p☑	PE	S5a	P
58#	2SA956H3†	150m	280M§	1.2m	♦J	60	40	8 0	100m	100nØ	1.0Ø	10mØ	80 †Δ*				7.5p	E†	X156b	A
59#	2SA956H4†	150m	280M§	1.2m	♦J	60	40	8.0	100m	100nØ	1.0Ø	10mØ	110 †Δ*				7.5p	E†	X156b	A
60#	2SA956H5†	150m	280M§	1.2m	♦J	60	40	8.0	100m	100nØ	1.0Ø	10mØ	150 †Δ*				7.5p	E†	X156b	A
61#	2SA956H6†	150m	280M§	1 2m	♦J	60	40	8.0	100m	100nØ	1.0Ø	10mØ	200 †Δ*				7.5p	E†	X156b	A
62#	BFV31†	150m	350M§Δ	1.1m	§J	12	12	4.0	200m	150nØ	1.0Ø	30mØ	30 †Δ				8 0p☑	PE	S5a	P
63#	BFV32†	150m	350M§Δ	1.1m	§J	10	10	3.5	200m	200nØ	1.0Ø	30mØ	20 †Δ				8.0p☑	PE	S5a	P
64	2N4411	150m	400M§Δ	833u	§J	15	12	5.0	25m	5.0n#	.50Ø	500u	40 †Δ				700f$☑	E	TO72	G
65#	BFV29†	150m	400M§Δ	1.1m	§S	20	15	5.0	200m	50n§	.50Ø	10mØ	30 †Δ				4.5p	PE	S5a	P
66#	BF516	150m	850M§		§	40	35	6.0	20m	50n	10Ø	3.0mØ	25 †Δ				300f†	PL	TO72	A
67	A441	150m☑	5.0G§	1.1m	§J	15	12	2.0	35m	50nØ	5.0Ø	30mØ	20 #Δ				600f†	PEØ	TO72	G
68♦#	BF969	160m	850M§	1.6m	§J	40	35	3 0	30m	100nØ	10Ø	3.0mØ	50 †				500f	PLØ	W49	A
69♦#	BF967	160m	950M§	1.6m	§J	30	30	3 0	20m	100nØ	10Ø	1.0mØ	60 †				420f	PLØ	W49	A
70▼#	BF967☑	160m#	950M§	1.6m	§J	30	30	3.0	20m	100nØ	10	3.0m	60 †				450f†	PL	W121	A
71♦#	BF979	160m	1.6G§	1.6m	§J	25	20	3.0	30m	100nØ	10Ø	10mØ	20 Δ†				27p	PLØ	W49	A
72#	BCW88	167m§	100M§Δ	1.3m	§J	45	45	5.0	100m	20nØ	5 0Ø	2.0mØ	250 †Δ	30u	4.5k	2.0	7.0p$☑	PEØ	W71	A
73#	BF680	170m	650M§	1.6m	§J	40	35	3.0	30m	100nØ	10	3.0mØ	50 †				600f$	PEØ	W31	A
74#	BF679	170m	1.0G§	1.6m	§J	40	35	3.0	30m	100nØ	10	3.0mØ	35 †Δ				600f$	PEØ	W31	
75#	BF679M	170m	1.0G§	1.6m	§J	40	35	3.0	30m	100nØ	10	3.0mØ	30 †Δ				600f$	PEØ	W31	
76♦#	BF679S	170m*	1.0G§	1.6m	§J	40	35	3.0	30m	100nØ	10Ø	3.0mØ	25 †Δ				600f$	PEØ	W31	A
77▼#	BF479S	170m	1 3G§	1.6m	§J	25	25	3.0	50m	100nØ	10Ø	8.0m	60 †				500f$	PEØ	W31	A
78#	BF479	170m	1.4G§	1.6m	§J	30	25	3.0	50m	100nØ	10	10mØ	20 †Δ				700f$	PEØ	W31	A
79#	BFR38	175m	850M§		§J	40	35	3.0	20m	50u	10Ø	3.0mØ	25 †				300f†	PE	TO72	
80#	MT0404	180m	150M§Δ	1.4m	§J	25	25 *	4.0		100nØ	5.0Ø	50mØ	30 †Δ				12p☑	PL	X173	B
81#	MT0404-1	180m	200M§Δ	1.4m	§J	40	30 *	5.0		50n§	1.0Ø	10mØ	20 †Δ				10p☑	PL	X173	B
82#	MT0404-2	180m	200M§Δ	1.4m	§J	40	30 *	5.0		50n§	1.0Ø	10mØ	40 †Δ				10p☑	PL	X173	B
83	BFQ23	180m	5.0G§	2 0m	§J	15	12	2.0	35m	50nØ	5.0Ø	30mØ	20 #Δ				800f†	PE	W104	C
84▼#	BFT92*	180m☑	5.0G§	2 0m	§J	20	15	2.0	25m	50n♦Ø	10Ø	14mØ	50 †#				700f†	PE†	X156e	A
85▼#	BFT93*	180m☑	5.0G§	2.0m	§J	15	12	2.0	35m	50n♦Ø	5.0Ø	30mØ	50 †#				1.0p†	PE†	X156e	A
86	2N4248	200m		2.0m	♦J	40	40	5.0	100m	10n	5.0Ø	1.0mØ	50 Δ				6.0p		R124b	A
87	2N4249	200m		2.0m	♦J	60	60	5.0	100m	10nØ	5.0Ø	1.0mØ	100 Δ	40u☑	17k☑	10 ☑	6.0p☑	Ø	R124b	A
88	2N4250	200m		2.0m	♦J	40	40	5.0	100m	10n	5.0Ø	1.0mØ	250 Δ	50u☑	20k☑	10 ☑	6.0p☑	Ø	R124b	A
89	2N4250A	200m		2.0m	♦J	60	60	5.0	100m	10nØ	5.0Ø	1.0mØ	250 Δ	50u☑	20k☑	10 ☑	6.0p☑	Ø	R124b	A
90#	BC250	200m		2.0m	♦J	20	20	5 0	100m	100nØ	1.0Ø	1.0mØ	35 †Δ					PEØ	R204	A
91#	BC251	200m		2 0m	♦J	45	45	5 0	100m	50n	5.0Ø	2.0mØ	125 Δ*					PEØ	R204	A
92#	BC252	200m		2.0m	♦J	20	20	5.0	100m	50n	5.0Ø	2 0mØ	125 Δ*					PEØ	R204	A
93#	BC253	200m		2.0m	♦J	20	20	5.0	100m	50n	5.0Ø	2.0mØ	125 Δ*					PEØ	R204	A
94#	BC153	200m	40 §Δ	2 0m	♦J	40	40	5.0		500p	5.0Ø	1.0mØ	135 †#				6.0p☑	DPLØ	R97a	
95▼	MPS4248	200m	50k§Δ	2.0m	♦J	40	40 ☑	5 0		10n	5.0Ø	10mØ	50 Δ				6.0p☑	Ø†	TO92	A
96▼	MPS4249	200m	100k§Δ	2 0m	♦J	60	60 ☑	5.0		10nØ	5.0Ø	1.0m	100 Δ				6.0p☑	Ø†	TO92	A
97▼	MPS4250	200m	250k§Δ	2.0m	♦J	40	40 ☑	5.0		3.0u†	5.0Ø	1 0m	250 Δ				6.0p☑	Ø†	TO92	A
98▼	MPS4250A	200m	250k§Δ	2.0m	♦J	60	60 ☑	5 0		10nØ	5.0Ø	1.0mØ	250 Δ				6.0p☑	Ø†	TO92	A
99	2N2370	200m	1.0M	1.1m	§J	15	15	15	50m	50u	4.0Ø	25mØ	15 Δ				15p☑	AØ	TO5	A
100	2N2371	200m	1.0M	1.1m	§J	15	15	15	50m	50u	4.0Ø	25mØ	20 Δ				15p☑	AØ	TO5	A
101#	KT209A	200m	5.0M§Δ	2.2m	♦J	15	15 §	10	300m		1.0	30mØ	20 †Δ				50p$☑		S14	A
102#	KT209B	200m	5.0M§Δ	2.2m	♦J	15	15 §	10	300m		1.0	30mØ	40 †Δ				50p$☑		S14	A
103#	KT209D	200m	5.0M§Δ	2.2m	♦J	30	30 §	10	300m		1.0	30mØ	40 †Δ				50p$☑		S14	A
104#	KT209E	200m	5.0M§Δ	2.2m	♦J	30	30 §	10	300m		1 0	30mØ	80 †Δ				50p$☑		S14	A
105#	KT209G	200m	5.0M§Δ	2 2m	♦J	30	30 §	10	300m		1.0	30mØ	20 †Δ				50p$☑		S14	A
106#	KT209I	200m	5.0M§Δ	2.2m	♦J	45	45 §	10	300m		1.0	30mØ	40 †Δ				50p$☑		S14	A
107#	KT209K	200m	5.0M§Δ	2.2m	♦J	45	45 §	10	300m		1.0	30mØ	80 †Δ				50p$☑		S14	A
108#	KT209L	200m	5.0M§Δ	2.2m	♦J	60	60 §	10	300m		1.0	30mØ	20 †Δ				50p$☑		S14	A
109#	KT209M	200m	5.0M§Δ	2.2m	♦J	60	60 §	10	300m		1.0	30mØ	40 †Δ				50p$☑		S14	A
110#	KT209S	200m	5.0M§Δ	2.2m	♦J	45	45 §	10	300m		1.0	30mØ	20 †Δ				50p$☑		S14	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	MMT3799	225m	40M§Δ	2.0m	†J	60	60	3.0	50m	50nØ	10Ø	1 0mØ	475	30u	16k	4.0	4 0pØ	ANØ	W6 D
2	MMT3905	225m	200M§Δ	1.8m	$J	40	40	5.0	200m	50nØ	1 0Ø	10mØ	50 †Δ#				4 5p	AN	W6a C
3	MMT3906	225m	250M§Δ	1.8m	$J	40	40	5.0	200m	50nØ	1.0Ø	10mØ	100 †Δ#				4.5p	AN	W6a C
4	MMT2907†	225m	340M§	1 8m	$J	60	40 *	5 0	300m	50nØ	10Ø	1.0mØ	50 †Δ#				4.8p	AN†	W6a C
5	MMT73†	225m	400M§Δ	2 0m	†J		8 0	4 0	200m	100n	1.0Ø	10mØ	30 †Δ				5.0pØ	AN	W6 C
6	MMT3546†	225m	700M§Δ	2.0m	†J	15	12	4 5	250m	100nØ	1.0Ø	10mØ	30 †Δ#				6.0pØ	AN	W6 C
7#	BFR99	225m	2.3G§	1 2	$J	30	25	3.0	50m	50n	10Ø	10mØ	25 †Δ				1.1p	PE	TO72 A
8#	BCY29	230m*	500k	2.2m	$J	60	60	30	50m	100mØ			25	30u	100	3.0	45p	A	TO5
9♦#	BC415	240m	200M§	3 0m	♦J	45	30		100m		5.0	2 0mØ	125 †Δ					PE	R221a F
10♦#	BC416	240m	200M§	3.0m	♦J	50	45		100m		5.0	2 0mØ	125 †Δ					PE	R221a F
11	2N935	250m		1.8m	$S	50	40	20	50m	100n	.50Ø	100uΔ	9.0 †Δ						TO18 A
12	2N936	250m		1.8m	$S	50	35	20	50m	100n	.50Ø	100uΔ	18 †Δ						TO18 A
13	2N937	250m		1.8m	$S	50	30	20	50m	100n	.50Ø	100uΔ	36 †Δ						TO18 A
14	2N3342†	250m		1.6m	§S	20	8.0	20	50m	20nØ	1.0Ø	5.0mØ	30 †Δ				10pØ		TO5 A
15#	2SA539	250m		2.5m	♦J	60	45	5 0	200m	100nØ	1.0Ø	50mØ	80 †*					E	R182b B
16#	2SA564	250m		2 5m	♦J	25	25	5 0	50m	1.0uØ	5 0	2.0m	250 †					PE	TO92 B
17#	2SA564A	250m		2.5m	♦J	45	45	5 0	50m	1.0uØ	5.0	2.0m	250 †					PE	TO92 B
18#	2SA723	250m		2.5m	♦J	40	20	5.0	500m	200nØ	1.0Ø	100mØ	120 †#*					E	R182b B
19#	BC224	250m		2.0m	$S	30	30	6 0	30m	100nØ	5.0Ø	1.0mØ	150 Δ					PE†	TO92 B
20	2N1275	250m	100kΔ	1.8m	$A	100	80	60	50m	1.0uØ	50Ø	1.0mØ	9.0 †Δ				110pØ		TO5 A
21	2N3401Ø	250m	100kΔ	2.0m	§S	25	25	25	100m	100nØ	5.0Ø	1.0mØ	4.0 Δ				15pØ	Δ	TO5 A
22	2N1034	250m	200k	1.8m	$J	50	40	20	50m	1.0uØ	6.0	1.0mØ	15	15u	900		70p	FA	TO5 A
23	2N1655	250m	200k	1 8m	$J	125	100	125	50m	1.0uØ	50Ø	1.0mØ	15 †	11u	1.5k	7.5	50p	FAΔ	TO5 A
24	2N1654	250m	250k	1.8m	$J	100	80	100	50m	1 0uØ	.50Ø	1.0mØ	30 †	11u	1.5k	7.5	50p	FAΔ	TO5 A
25	2N1656	250m	250k	1.8m	$J	125	100	125	50m	1.0uØ	50Ø	1.0mØ	30 †	11u	1 5k	7.5	50p	FAΔ	TO5 A
26	2N1035	250m	300k	1.8m	$J	50	50	20	50m	1.0uØ	6 0	1.0mØ	30	40u	1.7k		70p	FA	TO5 A
27	2N1037	250m	300k	1 8m	$J	50	35	20	50m	1.0uØ	6.0Ø	1.0mØ	25	20u	1.4k		70p	FA	TO5 A
28	2N1623	250m	300k	1.8m	$J	50	20	20	50m	1.0uØ	6.0Ø	1.0mØ	25 †	35u	1.0k		70p	FAΔ	TO5 A
29	2N1036	250m	500k	1.8m	$J	50	30	20	50m	1.0uØ	6 0	1.0mØ	60	50u	2.5k		70p	FA	TO5 A
30	2N1643	250m	700k	1 8m	$J	25	25	20	50m	1.0nØ	6 0Ø	1.0mØ	18	35ub			50p	A	TO5 A
31	2N2002	250m	800k	1.6m	§J	30	5 0	30	100m	1.0n	6.0	1.0m					20pØ	A	TO5 A
32	2N2003	250m	800k	1.6m	§J	30	5.0	30	100m	3.0n	6.0	1.0m					20pØ	A	TO5 A
33	2N2004	250m	800k	1 6m	§J	50	15	50	100m	50u	6.0Ø	1.0mØ	12 †Δ				8.0p	A	TO5 A
34	2N2005	250m	800k	1.6m	§J	50	15	50	100m	50u	6 0	1.0m					10pØ	A	TO5 A
35	2N2006	250m	800k	1 6m	§J	60	35	60	100m	50u	6.0	1.0m					10pØ		TO5 A
36	2N2007	250m	800k	1.6m	§J	60	35	60	100m	5.0n	6.0	1.0m					10pØ	A	TO5 A
37	2N938	250m	1 0MΔ	1.6m	§S	40	35	40	100m	25nØ	6.0	1.0m	9.0 Δ						TO18 A
38	2N943Ø	250m	1.0MΔ	1.6m	§S	40	18	40	50m	5.0nØ	.50Ø	100uΔ	10 †Δ				14pØ		TO18 A
39	2N944Ø	250m	1.0MΔ	1.6m	§S	40	18	40	50m	5.0nØ	6.0	1.0m	25 Δ				14pØ		TO18 A
40	2N945Ø	250m	1.0MΔ	1.6m	§S	50	50	50	50m	5.0nØ	6.0	1.0m	25 Δ				14pØ		TO18 A
41	2N946Ø	250m	1.0MΔ	1.6m	§S	80	80	80	50m	5.0nØ	6.0	1.0m	25 Δ				14pØ		TO18 A
42	2N1024	250m	1.0MΔ	1.6m	§J	18	15	18	100m	25nØ	6.0	1.0m	9.0 Δ						TO5 A
43	2N1025	250m	1.0MΔ	1.6m	§J	40	35	40	100m	25nØ	6 0	1 0m	9.0 Δ						TO5 A
44	JAN2N1025	250m	1.0MΔ	1.4m	§A	40	35	40		25nØ	6 0	1.0m	9.0 Δ	2.5uØb	75 Ø	20 Ø	12pØ		TO5 A
45	2N1474	250m	1 0MΔ	1.6m	§J	60	60	60	100m	50nØ	6.0	1.0m	12 Δ						TO5 A
46	2N1475	250m	1 0MΔ	1.6m	§J	60	60	60	100m	50nØ	6.0	1.0m	36 Δ						TO5 A
47	2N1476	250m	1.0MΔ	1.6m	§J	100	100	100	100m	200nØ	6.0	1.0m	12 Δ						TO5 A
48♦	2N1477	250m	1.0MΔ	1.6m	§J	100	100	100	100m	200nØ	6.0	1.0m	30 Δ						TO5 A
49	2N1919Ø	250m	1 0MΔ	1.6m	§S	40	18	40	50m		6.0	1 0m					7.0p	AΔ	TO5 A
50	2N1920Ø	250m	1.0MΔ	1.6m	§S	40	18	40	50m		6.0	1.0m					7.0p	AΔ	TO5 A
51	2N1921Ø	250m	1.0MΔ	1.6m	§S	50	50	50	50m		6.0	1.0m					7.0p	AΔ	TO5 A
52	2N1922Ø	250m	1 0MΔ	1.6m	§S	80	80	80	50m		6.0	1.0m					7.0p	AΔ	TO5 A
53#	BCY30	250m	1.2M§	2.0m	§J	64	64	45	100m	50nØ	6.0Ø	1.0mØ	25	17u	1.1k	3.0		A	TO5 A
54#	OC200	250m	1.2M§	2.0m	§J	30	25	20	50m	500n	6 0Ø	1.0mØ	28	24u	900	3.0		Ø	R8
55#	OC203	250m	1.2M§	2 0m	§J	60	50	30	50m	1.5u	6.0Ø	1 0mØ	20					Ø	R8
56#	BCY33	250m	1.5M§	2 0m	§J	32	32	16	100m	50nØ	6.0Ø	1 0mØ	25	17u	1.1k	3.0		A	TO5 A
57#	BCY31	250m	1 7M§	2.0m	§J	64	64	45	100m	50nØ	6.0Ø	1.0mØ	35	25u	1.4k	6.0		A	TO5 A
58	2N939	250m	2 0MΔ	1 6m	§S	40	35	40	100m	25nØ	6.0	1.0m	18 Δ						TO18 A
59	2N940	250m	2.0MΔ	1.6m	§S	40	35	40	100m	25nØ	6.0	1.0m	36 Δ						TO18 A
60	2N1026	250m	2.0MΔ	1 6m	§J	40	35	40	100m	25nØ	6.0	1.0m	18 Δ						TO5 A
61	JAN2N1026	250m	2.0MΔ	1.4m	§A	40	35	40		25nØ	6 0	1.0m	18 Δ	2.5uØb	75 Ø	20 Ø	12pØ		TO5 A
62	2N1220	250m	2.0MΔ	1.6m	§J	30	25	20	100m	100nØ	.25Ø	5 0mØ	9.0 †Δ				18pØ	A	TO5 A
63	2N1222	250m	2.0MΔ	1 7m	§J	30	25	10	100m	10uØ	6 0Ø	1.0m	9.0 Δ				18pØ	A	TO5 A
64	2N1223	250m	2.0M	1 7m	§J	40	40	10	100m	.10uØ	6 0Ø	1.0m	6.0 Δ				15p	A	TO5 A
65	2N1469	250m	2 0MΔ	1.6m	§J	40	35	40	100m	25nØ	6.0	1 0m	36 Δ						TO5 A
66	JAN2N1469	250m	2.0MΔ	1.4m	§A	40	35	40		25nØ	6.0	1.0m	36 Δ	2.5uØb	75 Ø	20 Ø	12pØ		TO5 A
67	2N1474A	250m	2.0MΔ	1 6m	§J	60	60	60	100m	50nØ	6 0	1.0m	18 Δ						TO5 A
68	2N1917Ø	250m	2.0MΔ	1.7m	§S	25	8.0	25	50m	2.5n	6.0	1.1m	50				7.0p	AΔ	TO5 A
69	2N3343Ø	250m	2.0M§Δ	1.7m	§S	25	8.0	25	50m	3nØ	.50Ø	.25mØ	20 †Δ				25pØ	Δ	TO5 A
70	2N3344Ø	250m	2 0M§Δ	1.7m	§S	30	30	30	50m	2nØ	50Ø	1.0mØ	25 †Δ				25pØ	Δ	TO5 A
71	2N3345Ø	250m	2 0M§Δ	1.7m	§S	50	50	50	50m	5nØ	.50Ø	1.0mØ	15 †Δ				25pØ	Δ	TO5 A
72	2N3346Ø	250m	2.0M§Δ	1.7m	§S	50	50	50	50m	5nØ	.50Ø	1.0mØ	25 †Δ				25pØ	Δ	TO5 A
73#	BCY34	250m	2 4M§	2.0m	§J	32	32	16	100m	.05uØ	6.0Ø	1.0mØ	35	25u	1.4k	6.0		A	TO5 A
74#	BCY32	250m	2.5M§	2 0m	§J	64	64	32	100m	.05uØ	6.0Ø	1.0mØ	55	30u	1.7k	5.0		A	TO5 A
75#	OC201	250m	3.2M§	2.0m	§J	25	20	20	50m	.50u	6.0Ø	1.0mØ	40	80uØ	2.5kØ	7 Ø		Ø	R8
76#	OC202	250m	3.2M§	2 0m	§J	15	10	10	50m	.50u	6.0Ø	1.0mØ	70	42u	2.1k	6.0		Ø	R8
77	2N1027	250m	4 0MΔ	1 6m	§J	18	15	18	100m	25nØ	6.0	1.0m	18 Δ						TO5 A
78	2N1219	250m	5.0MΔ	1 7m	§J	30	25	20	100m	.10uØ	25Ø	5.0mØ	18 †Δ				15pØ	A	TO5 A
79	2N1221	250m	5.0MΔ	1.7m	§J	30	25	10	100m	.10uØ	6.0Ø	1.0m	18 Δ				15pØ	A	TO5 A
80	TIS128	250m	6.5M§Δ	2 0m	§S	60	45	4.0	30m	100nØ	10Ø	2.0mØ	30 †Δ				500f$	t Ø	R203 C
81	2N4285	250m	7.0M§Δ	2.0m	§S	35	35	35	50m	10nØ	5.0	1.0m	600 Ø	1.2uØb	40 Ø	10	10pØ		X149
82	2N1028	250m	7 2M§Δ	1.6m	§J	12	10	12	100m	25nØ	6.0	1.0m	9.0 Δ						TO5 A
83	2N942Ø	250m	10M§Δ	1 6m	§S	25	8.0	25	50m	2.5nØ	6.0	1.0m	25 Δ				14pØ		TO18 A
84	2N1918Ø	250m	10.MΔ	1.7m	§S	25	8.0	25	50m	2.5n	6.0	1.0m	50				7.0p	AΔ	TO5 A
85	2N941Ø	250m	16M§Δ	1.6m	§S	25	8.0	25	50m	2.5nØ	6.0	1.0m	25 Δ				14pØ		TO18 A
86	HA9054†	250m	25MΔ	1.8m	$A	15		5.0		200nØ	10	2.0m	25	b	30 Ø		10pØ	ME	TO18
87	HA9056†	250m	25MΔ	1.8m	$A	30		5.0		200nØ	10	2.0m	25	b	30 Ø		10pØ	ME	TO18
88	HA9058†	250m	25MΔ	1.8m	$A	50		5.0		200nØ	10	2.0m	25	b	30 Ø		10pØ	ME	TO18
89	2N3812*	250m	30M§Δ	1.5m	§S	60	60	5 0	50m	.01uØ	10Ø	1.0mØ	150 Δ	60uØ	15kØ	25 Ø	4pØ	Ø	X22
90	2N3813*	250m	30M§Δ	1.5m	§S	60	60	5.0	50m	01uØ	10Ø	1.0mØ	300 Δ	60uØ	40kØ	25 Ø	4pØ	Ø	X22
91	2N3814*	250m	30M§Δ	1.5m	§S	60	60	5 0	50m	.01uØ	10Ø	1 0mØ	150 Δ	60uØ	15kØ	25 Ø	4pØ	*Ø	X22
92	2N3815*	250m	30M§Δ	1.5m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 Δ	60uØ	40kØ	25 Ø	4pØ	*Ø	X22
93	2N3816*	250m	30M§Δ	1.5m	§S	60	60	5 0	50m	.01uØ	10Ø	1 0mØ	150 Δ	60uØ	15kØ	25 Ø	4pØ	*Ø	X22
94	2N3817*	250m	30M§Δ	1.5m	§S	60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 Δ	60uØ	40kØ	25 Ø	4pØ	*Ø	X22
95#	ZTX530	250m	30MΔ§	2.5m	♦A	30	30	5.0	500m	200n	5.0Ø	100uØ	60 Δ				8.0pØ	PLØ	X59 F
96	2N4288	250m	40M§Δ	2.0m	$S	30	25	6.0	100m	50nØ	5.0Ø	1 0m	60 Δ	10uØb	40 Ø	1.2 Ø	8.0pØ		X149 B
97	2N4289	250m	40M§Δ	2 0m	$S	60	45	7.0	100m	10nØ	5.0Ø	1.0m	60 Δ	10uØb	40 Ø	1.2 Ø	8.0pØ	Ø	X149 B
98#	2SA749	250m	40MΔ§		J♦	100	100	5.0	50m	100n	1.0Ø	20mØ	80 †				3.5p	PE	TO92 B
99	HA9055†	250m	40MΔ	1.8m	$A	15		5.0		200nØ	10	2 0m	55	b	30 Ø		10pØ	ME	TO18
100	HA9057†	250m	40MΔ	1.8m	$A	30		5 0		200nØ	10	2.0m	55	b	30 Ø		10pØ	ME	TO18
101	HA9059†	250m	40MΔ	1.8m	$A	50		5.0		200nØ	10	2 0m	55	b	30 Ø		10pØ	ME	TO18
102	HA7206	250m	45M	2.0m	§A	70		4.0		250nØ	10	2.0m	10	300nb	20	600m	3.0p	ME†	TO18
103#	2SA639	250m	50M§Δ	2.5m	♦J	180	160	5.0	50m	1.0uØ	6 0Ø	15mØ	100 †	6 5u	4 0k	900m	7.0pØ	E	TO92 A
104#	2SA675	250m	50M§Δ	2 5m	♦J	80	80	5.0	100m	1.0uØ	3 0Ø	20mØ	120 †	11u	3.2k	900m	10pØ	E	TO92 A
105	HA7207	250m	55M	2.0m	§A	70		4 0		250nØ	10	2.0m	10	300nb	20	600m	3.0p	ME†	TO18
106	2N2802*	250m	60M§Δ	1.6m	§S	25	20	5.0	30m	10n	5.0Ø	1 0mØ	20 Δ	1 0uØb	32 Ø	12 Ø	8.0pØ	Ø	R131c PA
107	2N2803*	250m	60M§Δ	1.6m	§S	25	20	5.0	30m	10n	5 0Ø	1 0mØ	20 Δ	1.0uØb	32 Ø	12 Ø	8.0pØ	Ø	R131c PA
108	2N2804*	250m	60M§Δ	1.6m	§S	25	20	5.0	30m	10n	5.0Ø	1.0mØ	20 Δ	1.0uØb	32 Ø	12 Ø	8.0pØ	Ø	R131c PA
109	2N2805*	250m	60M§Δ	1 6m	§S	25	20	5 0	30m	10n	5.0Ø	1 0mØ	40 Δ	1.0uØb	32 Ø	12 Ø	8.0pØ	Ø	R131c PA
110	2N2806*	250m	60M§Δ	1 6m	§S	25	20	5.0	30m	10n	5.0Ø	1.0mØ	40 Δ	1.0uØb	32 Ø	12 Ø	8.0pØ	Ø	R131c PA

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N1256†	275m	30M§Δ	1.8m	§S	40	40	5.0	100m	200nØ	1.0Ø	10mØ	25 †Δ				10pØ		TO5	
2	2N1259†	275m	40M§Δ	1.8m	§S	50	50	5.0	100m	200nØ	1.0Ø	10mØ	25 †Δ				10pØ		TO5	
3	2N1255†	275m	50M§Δ	1.8m	§S	30	30	5.0	100m	200nØ	1.0Ø	10mØ	40 †Δ				10pØ		TO5	
4	2N1257†	275m	50M§Δ	1.8m	§S	40	40	5.0	100m	200nØ	1.0Ø	10mØ	40 †Δ				10pØ		TO5	
5	2N1258†	275m	50M§Δ	1.8m	§S	30	30	5.0	100m	200nØ	1.0Ø	10mØ	75 †Δ				10pØ		TO5	
6#	BSY59†	280m	100M§	2.2m	§J		30	5.0	800m	100mØ§	.70Ø	100mØ	160 †				12p	PE†	S1	A
7#	BC307Ø	280m	130M§	2.2m	§J	50	45	5.0	100m	100nØ	5.0Ø	2.0mØ	75 Δ*				4.0p$	PE†	R183	F
8#	BC308Ø	280m	130M§	2.2m	§J	30	25	5 0	100m	100nØ	5.0Ø	2.0mØ	75 Δ*				4.0p$	PE†	R183	F
9#	BC309Ø	280m	130M§	2.2m	§J	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	125 Δ*				4.0p$	PE†Ø	R183	F
10#*	BSW20A†	280m	150M§Δ	2.2m	§J	35	30 *	5.0	100m	100u	1 0Ø	10mØ	100 †Δ				7.0pØ	PE†	R185	A
11#	BSW20V1†	280m	150M§Δ	2.2m	§J	35	30 *	5.0	100m	100u	1.0Ø	10mØ	40 †Δ				7.0pØ	PE†	R185	A
12▼#	2SP561	300m		3.0m	♦J	50	50	5.0	150m	100nØ	1.0Ø	20mØ	40 †Δ*				13p	PE	R67a	A
13▼#	2SP562	300m		3.0m	♦J	30	30	5.0	400m	100nØ	1.0Ø	100mØ	70 †Δ*				13p	PE	R67a	A
14#	BC181	300m		2 4m	§S	40	25	5 0	200m	100nØ	5.0Ø	2.5mØ	60 †Δ#					PE†	R203c	A
15#	BC261	300m		2.0m	§J	45	45	5.0	100m	50n	5.0Ø	2.0mØ	125 Δ*					PEØ	R64b	AØ
16#	BC263	300m		2.0m	§J	20	20	5.0	100m	50n	5.0Ø	2.0mØ	125 Δ*					PEØ	R179x	AØ
17#	BC315	300m		2.4m	§S	45	35	5.0	100m	15nØ	5.0Ø	2.0mØ	125				5.0p	PEØ	R203c	A
18	IT136TO71*	300mØ		1.7mØ	§J	60	60 §	7.0	100m	100p	5.0Ø	1.0mØ	150 †Δ				3.0pØ	PL	TO71	PA
19	IT137TO71*	300mØ		1.7mØ	§J	60	60 §	7.0	100m	100p	5.0Ø	1.0mØ	150 †Δ				3.0pØ	PL	TO71	PA
20	IT138TO71*	300mØ		1.7mØ	§J	55	55 §	7.0	100m	100p	5.0Ø	1.0mØ	100 †Δ				3.0pØ	PL	TO71	PA
21	IT139TO71*	300mØ		1.7mØ	§J	45	45 §	7.0	100m	100p	5.0Ø	1.0mØ	70 †Δ				3.0pØ	PL	TO71	PA
22	IT2904	300m		1.7m	§S	60	30	5.0	600m	20nØ	10Ø	100uØ	20 †Δ				8.0pØ		S7	L
23	IT2905	300m		1 7m	§S	60	30	5 0	600m	20nØ	10Ø	100uØ	35 †Δ				8.0pØ		S7	L
24	IT2906	300m		1 7m	§S	60	30	5.0	600m	20nØ	10Ø	100uØ	20 †Δ				8.0pØ		S7	L
25	IT2907	300m		1.7m	§S	60	30	5.0	600m	20nØ	10Ø	100uØ	35 †Δ				8.0pØ		S7	L
26#	2CY30	300m	.25M§Δ	1.7m	§A	64	64	45	100m	20u	6 0Ø	1.0mØ	15 Δ				80pØ	A	TO5	
27#	2S322A	300m	.35M§Δ			25	25	20	50m			10mØ	15 †Δ					A	R177b	
28#	2CY33	300m	.40M§Δ	1 7m	§A	32	32	16	100m	20u	6.0Ø	1.0mØ	15 Δ				80pØ	A	TO5	
29#	OC204	300m	.45M§Δ	2.5m	§J	32	32	12	250m	.50u	1.0Ø	150mØ	10 †Δ						R8	
30#	OC205	300m	.45M§Δ	2.5m	§J	60	60	12	250m	1.5uØ	1.0Ø	150mØ	10 †Δ						R8	
31#	2S301	300m	.70M	1.7m	§J	80	60	30	100m	10u	6.0	1.0m	18				40p	A	TO5	
32#	2S305	300m	.70M	1.7m	§J	125	125	50	100m	10u	6.0	1.0m	15				40p	A	TO5	
33#	2S3010	300m	.70M§	1.7m	§S	40	40	20	100m	10u	6.0Ø	.10mØ	8.0	13u	525	2 0	40p	AØ	ZA11	
34#	2S325	300m	.75M	2.4m	▼J	125	125	50	50m	1 0u	6.0	1.0m	20				40p	A	R177b	
35#	2S302	300m	.80M	1.7m	§J	40	25	20	100m	10u	6.0	1 0m	20				40p	A	TO5	
36#	2S302A	300m	.80M§	1.7m	§S	25	25	10	100m	10u	6.0Ø	.10mØ	11	17u	800	2.7	40p	AØ	ZA11	
37#	2S3020	300m	.80M§	1.7m	§S	40	40	20	100m	10u	6.0Ø	.10mØ	11	17u	800	2.7	40p	AØ	ZA11	
38#	OC206	300m	.85M§Δ	2.5m	§J	32	32	12	250m	.50u	1.0Ø	150mØ	16 †Δ						R8	
39	2N3842Ø	300m	1.0M§Δ	1.7m	§S	120	120	120	100m	20nØ	.50Ø	1.0mØ	10 †Δ				9pØ		TO18	A
40#	2S321	300m	1.0M	2.4m	▼J	80	80 §	30	50m	10u	6.0	1.0m	15				40p	A	R177b	
41#	2S322	300m	1.0M	2.4m	▼J	40	40	20	50m	10u	6.0	1.0m	20				40p	A	R177b	
42#	2S303	300m	1.2M	1.7m	§J	25	25	20	100m	10u	6.0	1.0m	35				40p	A	TO5	
43#	2S3030	300m	1.2M§	1.7m	§S	25	25	10	100m	10u	6.0Ø	.10mØ	19	29u	1.5k	4 3	40p	AØ	ZA11	
44	2N3841Ø	300m	1.5M§Δ	1.7m	§S	100	100	80	100m	2nØ	.50Ø	1.0mØ	20 †Δ				9pØ		TO18	A
45#	2S323	300m	2.0M	2.4m	▼J	25	25	20	50m	10u	6.0	1.0m	35				40p	A	R177b	
46#	2S324	300m	3.0M	2.4m	▼J	15	15	15	50m	10u	6.0	1.0m	75				40p	A	R177b	
47#	2S304	300m	3.5M	1.7m	§J	15	15	15	100m	10u	6.0	1.0m	75				40p	A	TO5	
48	3N90Ø	300m	6.0M§Δ	1 7m	§S	50		30	20m	.01uØ							10pØ	Δ	TO72	GDØ
49	3N91Ø	300m	6.0M§Δ	1.7m	§S	50		30	20m	.01uØ							10pØ	Δ	TO72	GDØ
50	3N92Ø	300m	6.0M§Δ	1.7m	§S	50		30	20m	.01uØ							10pØ	Δ	TO72	GDØ
51	3N93Ø	300m	6.0M§Δ	1.7m	§S	50		50	20m	.01uØ							10pØ	Δ	TO72	GDØ
52	JAN3N93Ø	300m	6.0M§Δ	1 7m	§S	50	50	50	20m	10nØ							10pØ	Δ	TO72	GD
53	3N94Ø	300m	6.0M§Δ	1.7m	§S	50		50	20m	.01uØ							10pØ	Δ	TO72	GDØ
54	3N95Ø	300m	6.0M§Δ	1.7m	§S	50		50	20m	.01uØ							10pØ	Δ	TO72	GDØ
55	3N129Ø	300m	8.0M§Δ	1.6m	§S	20		10	20m	1.0n							10pØ	Δ	TO72	GCØ
56	3N130Ø	300m	8.0M§Δ	1.6m	§S	30		20	20m	1.0n							10pØ	Δ	TO72	GCØ
57	3N131Ø	300m	8.0M§Δ	1.6m	§S	40		30	20m	1.0n							10pØ	Δ	TO72	GCØ
58	3N132Ø	300m	8.0M§Δ	1.6m	§S	50		40	20m	1.0n							10pØ	Δ	TO72	GCØ
59	3N133Ø	300m	8.0M§Δ	1 6m	§S	60		50	20m	1.0n							10pØ	Δ	TO72	GCØ
60	3N134Ø	300m	8.0M§Δ	1.7m	§S	20		15	20m	01u							12pØ	Δ	TO72	GCØ
61	3N135Ø	300m	8.0M§Δ	1.7m	§S	40		30	20m	.01u							12pØ	Δ	TO72	GCØ
62	3N136Ø	300m	8.0M§Δ	1.7m	§S	60		50	20m	.01u							12pØ	Δ	TO72	GCØ
63	2N864A†	300m	12M§Δ	1.6m	§S	6.0	6.0	6 0	100m	1.0n	6.0Ø	1.0m	25 Δ		700		9.0pØ		TO18	
64	JAN3N108Ø	300m	12M§Δ	1.6m	§S	50			20m	250pØ							10pØ		TO72	GC
65	3N114Ø	300m	12M§Δ	1.7m	§S	30		12	20m	.01uØ							10pØ		TO72	GDØ
66	3N115Ø	300m	12M§Δ	1.7m	§S	30		12	20m	.01uØ							10pØ		TO72	GDØ
67	3N116Ø	300m	12M§Δ	1.7m	§S	30		12	20m	.01uØ							10pØ		TO72	GDØ
68	3N117Ø	300m	12M§Δ	1 6m	§S	50		20	20m	10nØ							10pØ		TO72	GDØ
69	3N118Ø	300m	12M§Δ	1 7m	§S	50		20	20m	.01uØ							10pØ		TO72	GDØ
70	3N119Ø	300m	12M§Δ	1.7m	§S	50		20	20m	.01uØ							10pØ		TO72	GDØ
71#	2H1254†	300m	25MΔ	2.0m	§A	25		5.0		200nØ	10	2.0m	25	b	30 Ø		10pØ	ME	TO18	
72#	2H1256†	300m	25MΔ	2.0m	§A	35		5.0		200nØ	10	2.0m	25	b	30 Ø		10pØ	ME	TO18	
73#	2H1258†	300m	25MΔ	2.0m	§A	25		5.0		200nØ	10	2.0m	25	b	30 Ø		10pØ	ME	TO18	
74#	ZT152	300m	30M§Δ	2.4m	§A	20	20	15	500m	10u	6.0Ø	100m	35 †				5.0p	PE	TO18	
75#	2H1255†	300m	40MΔ	2.0m	§A	25		5.0		200nØ	10	2.0m	55	b	30 Ø		10pØ	ME	TO18	
76#	2H1257†	300m	40MΔ	2.0m	§A	35		5.0		200nØ	10	2.0m	55	b	30 Ø		10pØ	ME	TO18	
77#	2H1259†	300m	40MΔ	2.0m	§A	25		5.0		200nØ	10	2.0m	55	b	30 Ø		10pØ	ME	TO18	
78#	2SA637	300m	40M§Δ	2.0m	§J	150	150 §	5.0	50m	1.0uØ	3.0Ø	15mØ	30 †Δ				10pØ	DPL	TO18	AØ
79#	2SA685	300m	40MΔ§	3.0m	J♦	150	150 §	5.0	50m	1 0u	3.0Ø	15mØ	30 †				10pØ	D	TO92	B
80	2N2862	300m	45M§Δ	1.7m	§S	25	20	5.0	100m	.01uØ	5.0Ø	1.0mØ	25 Δ	50uØ	5kØ		6pØ	Ø	TO18	AØ
81#	2SA578	300m	50M§Δ	2.4m	§J	50	40	5.0	30m	50nØ	3.0Ø	1.0mØ	350 †	33u	9.0k	2.5	10pØ	E	TO18	AØ
82#	2SA579	300m	50M§Δ	2.4m	§J	50	40	5.0	30m	50nØ	3.0Ø	1.0mØ	350 †	33u	9.0k	2.5	10pØ	EØ	TO18	AØ
83▼	HSE459-RT	300m	50M§Δ	3.0m	♦J	30	30	4.0		1.0uØ	5.0Ø	20mØ	100 †Δ						TO98	B
84▼#	SCA92	300m	50M§	2.4m	§J	300	300	6	500m	250n	10Ø	30mØ	25 Δ				10p	PE	R204	A
85▼#	SCA93	300m	50M§	2.4m	§J	200	200	6	500m	250n	10Ø	30mØ	30 Δ				10p	PE	R204	A
86▼#	SCA94	300m	50M§	2.4m	§J	150	150	6	500m	250n	10Ø	10mØ	180 Ø				10p	PE	R204	A
87▼#	SCA95	300m	50M§	2.4m	§J	120	120	6	500m	250n	10Ø	10mØ	240 Ø				10p	PE	R204	A
88	2N2861	300m	60M§Δ	1.7m	§S	25	20	5.0	100m	.01u	5.0Ø	1.0mØ	50 Δ	50uØ	5kØ		6pØ	Ø	TO18	AØ
89	2N3347*	300m	60M§Δ	2.0m	§S	60	45	6.0		10nØ	5.0Ø	1.0mØ	60 Δ	100u	1.5k		6.0pØ	Ø	R131c	Ø
90	2N3348*	300m	60M§Δ	2.0m	§S	60	45	6.0		10nØ	5.0Ø	1.0mØ	60 Δ	100u	1.5k		6.0pØ	Ø		Ø
91	2N3349*	300m	60M§Δ	2.0m	§S	60	45	6.0		10nØ	5.0Ø	1.0mØ	60 Δ	100u	1 5k		6.0pØ	Ø		Ø
92	2N3350*	300m	60M§Δ	2.0m	§S	60	45	6.0		10nØ	5.0Ø	1.0mØ	150 Δ	100u	3.7k		6.0pØ	Ø		Ø
93	2N3351*	300m	60M§Δ	2.0m	§S	60	45	6.0		10nØ	5.0Ø	1.0mØ	150 Δ	100u	3.7k		6.0pØ	Ø		Ø
94	2N3352*	300m	60M§Δ	2.0m	§S	60	45	6.0		10nØ	5.0Ø	1.0mØ	150 Δ	100u	3.7k		6.0pØ	Ø		Ø
95#	BC137	300m	60M§Δ	3.0m	♦J	40	40	4.0	600m	.05uØ	10Ø	10mØ	85	130u	400	1.4	10pØ	DPE	R97	
96	EN1132	300m	60M§Δ	3.0m	♦J	50	35	5.0		1.0uØ	10Ø	150mØ	30 †#Δ	1 0uØb	35 Ø	8.0 Ø	45pØ	DPE	TO106	A
97♦#	2SA561	300m	70M§	3.0m	♦J	50	50	5.0	150m	100nØ	1.0Ø	20mØ	40 †Δ*				13p	PE	R67a	B
98♦#	2SA562	300m	70.M§	3.0m	♦J	30	30	5.0	400m	.10uØ	1.0Ø	100mØ	70 †Δ*				13p	PE†	R67a	B
99#	2SA659	300m	90M§	3.0m	♦J	50	50	4.0	200m	10uØ	6.0Ø	50mØ	80 †*					PL	R195a	B
100	IT131TO71*	300mØ	90M§Δ	1.7mØ	§J	45	45	7.0	50m	1.0n	5.0Ø	1.0mØ	100 †Δ				2.0pØ	PL	TO71	PA
101	IT132TO71*	300mØ	90M§Δ	1.7mØ	§J	45	45	7.0	50m	1.0n	5.0Ø	1 0mØ	100 †Δ				2.0pØ	PL	TO71	PA
102#	BSS68	300m§	95M§	4.0m	§J	110	100	6.0	100m	10uØ†	5.0Ø	10mØ	30 †Δ				5.0p$Ø	PEΔ	R189	A
103	2N3638†	300m	100M§Δ	3.0m	♦J	25	25	4.0	500m	35n§	10Ø	10mØ	25 Δ	1 2mØ	2.0kØ	26 Ø	20pØ		R110a	A
104	2N5120*	300mØ	100M§Δ	1.7m	§S	45	45	7.0	10m	100pØ	5.0Ø	500u	100 †Δ				800f$Ø	Ø*	TO71	PA
105	2N5121*	300mØ	100M§Δ	1.7m	§S	45	45	7.0	10m	100pØ	5.0Ø	500u	100 †Δ				800f$Ø	Ø*	TO71	PA
106	2N5122*	300mØ	100M§Δ	1 7m	§S	45	45	7.0	10m	100pØ	5.0Ø	500u	50 †Δ				800f$Ø	Ø*	TO71	PA
107	2N5142†	300m	100M§Δ	3.0m	♦J	20	20	4.0	500m	50n§	1.0Ø	50mØ	30 †#Δ				10p$Ø		TO105	A
108#	2SA467G	300m	100M§Δ		♦J	40	30	5.0	400m	100nØ	1.0Ø	100mØ	240 †Ø				10p	E	R67a	B
109#	2SA502	300m	100M§		♦	80	70	3.0	50m	1.0u	1.0Ø	20mØ	60 †				7.0p	EP	R67a	
110	HA9531	300m	100M	2.0m	§J	50		5.0		1.0u	10Ø	150mØ	25 †				35p	ME	TO18	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1#	BC260C	300m	180M§	2.0m	§J	20	20	5.0	100m	.10uØ	1.0Ø	1.0mØ	200 †Δ				4.0p	PE	TO18	AØ
2	MPSH54	300m	185M§	2.7m	†J	80	80	4.0	100m	50nØ	10Ø	1.5mØ	70 †	6.0u			1.0p$	ANØ	TO92	A
3	MPSH55	300m	185M§	2.7m	†J	80	80	4.0	100m	50nØ	10Ø	1.5mØ	70 †	6.0u			1.0p$	ANØ	TO92	A
4	CS4012†	300m	190M	3.0m	♦J	25	25	4.0	500m		5.0Ø	4.0mØ	70 †#	60u	1.5k	250m	6.0p	E	TO105	A
5	CS4013†	300m	190M	3.0m	♦J	25	25	4.0	500m		5.0Ø	4.0mØ	160 †#	60u	1.5k	250m	6.0p	E	TO105	A
6#	BC187	300m	191M§	2.0m	§J	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	140	29u	2.0k	1.4	4.5p†	PE	TO18	AØ
7	2N3644†	300m	200M§Δ	3.0m	♦J	45	45	5.0	500m	35n§	10Ø	1.0mØ	80 †Δ				8.0p☑		R110a	A
8	2N3645†	300m	200M§Δ	3.0m	♦J	60	60	5.0	500m	35n§	10Ø	1.0mØ	80 †Δ				8.0p☑		R110a	A
9	2N4142†	300m	200M§Δ	3.0m	♦J	60	40	5.0	200m	50n#	10Ø	150mØ	120 †☑				8.0p☑		R110	A
10	2N4143†	300m	200M§Δ	3.0m	♦J	60	40	5.0	200m	50n#	10Ø	150mØ	300 †☑				8.0p☑		R110	A
11	2N4228	300m	200M§Δ	3.0m	♦J	60	40	5.0	200m	50n#	10Ø	150mØ	150 †☑				8.0p☑		R110	A
12#	2SA467	300m	200M§	3.0m	♦J	40	30	5.0	400m	.50uØ	1.0Ø	100mØ	100 †				10p	PE	R67a	B
13#	2SA844	300m	200M§		♦J	55	55	5.0	100m	100nØ	12Ø	2.0mØ	160 †Δ*				1.8p	PE		
14#	2SA844C	300m	200M§		♦J	55	55	5.0	100m	100nØ	12Ø	2.0mØ	320 †☑*				1.8p	PE	X172	B
15#	2SA844D	300m	200M§		♦J	55	55	5.0	100m	100nØ	12Ø	2.0mØ	500 †☑*				1.8p	PE	X172	B
16#	2SA844E	300m	200M§		♦J	55	55	5.0	100m	100nØ	12Ø	2.0mØ	800 †☑*				1.8p	PE	X172	B
17#	2SA844F	300m	200M§		♦J	55	55	5.0	100m	100nØ	12Ø	2.0mØ	1.2k†☑*				1.8p	PE	X172	B
18#	2SB637K	300m	200M§	3.0m	♦J	50	50	5.0	100m	100nØ	12Ø	2.0mØ	160 †*Δ				1.8p	E	TO92	B
19#	BC116	300m	200M§	3.0m	♦J	45	40	5.0		50nØ	10Ø	100uØ	20 †Δ				5.0p	DPE	R97	
20#	BC126	300m	200M§Δ	3.0m	♦J	35	30	5.0	600m	.05uØ	10Ø	1.0mØ	20 †Δ				5.0p	DPE	R97	
21	BC126A	300m	200M§	3.0m	♦J	40	40	5.0	500m	50pØ	1.0Ø	50mØ	50 †Δ				7.0p		TO105	A
22#	BC177	300m$	200M§	2.0m	§J	45	45	5.0	100m	.05u	5.0Ø	2.0mØ	240 †Δ					PE	TO18	A
23♦#	BC177A	300m	200M§Δ	2.0m	§J	50	45	5.0	100m	50nØ	5.0Ø	2.0mØ	180 †				4.0p$☑	E	TO18	AØ
24#	BC177B	300m	200M§	2.0m	§J	50	45	5.0	100m	.05u	5.0Ø	2.0mØ	290				4.0p	E	TO18	AØ
25#	BC177V	300m	200M§	2.0m	§J	50	45	5.0	100m	.05u	5.0Ø	2.0mØ	75				4.0p	E	TO18	AØ
26♦#	BC177VI	300m	200M§Δ	2.0m	§J	50	45	5.0	100m	50nØ	5.0Ø	2.0mØ	75 Δ				4.0p$☑	E	TO18	AØ
27#	BC178	300m$	200M§	2.0m	§J	20	20	5.0	100m	.10u	5.0Ø	2.0mØ	240 †Δ					PE	TO18	A
28♦#	BC178A	300m	200M§Δ	2.0m	§J	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	180 †				4.0p$☑	E	TO18	AØ
29♦#	BC178B	300m	200M§Δ	2.0m	§J	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	290 †				4.0p$☑	E	TO18	AØ
30#	BC178V	300m	200M§	2.0m	§J	30	25	5.0	100m	.10u	5.0Ø	2.0mØ	75				4.0p	E	TO18	AØ
31♦#	BC178VI	300m	200M§Δ	2.0m	§J	30	25	5.0	100m	100nØ	5.0Ø	2.0mØ	75 Δ				4.0p$☑	E	TO18	AØ
32#	BC179	300m$	200M§	2.0m	§J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	240 †Δ					PEØ	TO18	A
33♦#	BC179B	300m	200M§	2.0m	§J	25	20	5.0	100m	50nØ	5.0Ø	2.0mØ	290 †				4.0p$☑	EØ	TO18	AØ
34#	BC204A	300m	200M§	3.0m	♦J	45	45	5.0	100m	50n	5.0Ø	2.0mØ	125 Δ				4.0p	PE	R110	A
35#	BC204B	300m	200M§	3.0m	♦J	45	45	5.0	100m	50n	5.0Ø	2.0mØ	240 Δ				4.0p	PE	R110	A
36#	BC204V	300m	200M§	3.0m	♦J	45	45	5.0	100m	50n	5.0Ø	2.0mØ	50 Δ				4.0p	PE	R110	A
37#	BC204VI	300m	200M§	3.0m	♦J	45	45	5.0	100m	50n	5.0Ø	2.0mØ	75 Δ				4.0p	PE	R110	A
38#	BC205A	300m	200M§	3.0m	♦J	20	20	5.0	100m	.10u	5.0Ø	2.0mØ	125 Δ				4.0p	PE	R110	A
39#	BC205B	300m	200M§	3.0m	♦J	20	20	5.0	100m	.10u	5.0Ø	2.0mØ	240 Δ				4.0p	PE	R110	A
40#	BC205V	300m	200M§	3.0m	♦J	20	20	5.0	100m	.10u	5.0Ø	2.0mØ	50 Δ				4.0p	PE	R110	A
41#	BC205VI	300m	200M§	3.0m	♦J	20	20	5.0	100m	.10u	5.0Ø	2.0mØ	75 Δ				4.0p	PE	R110	A
42#	BC206A	300m	200M§		♦J	25	20	5.0	100m		5.0Ø	2.0mØ	100 Δ				4.0p☑		TO106	
43#	BC206B	300m	200M§	3.0m	♦J	20	20	5.0	100m	50n	5.0Ø	2.0mØ	240 Δ				4.0p	PEØ	R110	A
44#	BC212†	300m	200M§Δ	2.4m	$S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	100 Δ				10p☑	PE	R203	A
45#	BC212A†	300m	200M§Δ	2.4m	$S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	300 ☑				10p☑	PE	R203	A
46#	BC212B†	300m	200M§Δ	2.4m	$S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	400 ☑				10p☑	PE	R203	A
47#	BC212K†	300m	200M§Δ	3.0m	♦J	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	50 Δ				10p☑	PEØ	R204a	A
48#	BC212KA†	300m	200M§Δ	3.0m	♦J	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	100 Δ				10p☑	PEØ	R204a	A
49#	BC212KB†	300m	200M§Δ	3.0m	♦J	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	200 Δ				10p☑	PEØ	R204a	A
50#	BC212L†	300m	200M§Δ	2.4m	$S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	100 Δ				10p☑	PE	TO92	B
51#	BC212LA†	300m	200M§Δ	2.4m	$S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	300 ☑				10p☑	PE	TO92	B
52#	BC212LB†	300m	200M§Δ	2.4m	$S	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	400 ☑				10p☑	PE	TO92	B
53#	BC213†	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	100 Δ				10p☑	PE	R203	A
54#	BC213A†	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	300 ☑				10p☑	PE	R203	A
55#	BC213B†	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	400 ☑				10p☑	PE	R203	A
56#	BC213C†	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	600 ☑				10p☑	PE	R203	A
57#	BC213K†	300m	200M§Δ	3.0m	♦J	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	70 Δ				10p☑	PEØ	R204a	A
58#	BC213KA†	300m	200M§Δ	3.0m	♦J	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	100 Δ				10p☑	PEØ	R204a	A
59#	BC213KB†	300m	200M§Δ	3.0m	♦J	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	200 Δ				10p☑	PEØ	R204a	A
60#	BC213KC†	300m	200M§Δ	3.0m	♦J	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	350 Δ				10p☑	PEØ	R204a	A
61#	BC213L†	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	100 Δ				10p☑	PE	TO92	B
62#	BC213LA†	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	300 ☑				10p☑	PE	TO92	B
63#	BC213LB†	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	400 ☑				10p☑	PE	TO92	B
64#	BC213LC†	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	600 ☑				10p☑	PE	TO92	B
65#	BC214†	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	140 Δ				10p☑	PEØ	R203	A
66#	BC214A†	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	300 ☑				10p☑	PEØ	R203	A
67#	BC214B†	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	400 ☑				10p☑	PEØ	R203	A
68#	BC214C†	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	600 ☑				10p☑	PEØ	R203	A
69#	BC214K†	300m	200M§Δ	3.0m	♦J	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	125 Δ				10p☑	PEØ	R204a	A
70#	BC214KA	300m	200M§Δ	3.0m	♦J	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	100 Δ				10p☑	PEØ	R204a	A
71#	BC214KB†	300m	200M§Δ	3.0m	♦J	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	200 Δ				10p☑	PEØ	R204a	A
72#	BC214KC†	300m	200M§Δ	3.0m	♦J	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	350 Δ				10p☑	PEØ	R204a	A
73#	BC214L†	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	140 Δ				10p☑	PEØ	TO92	B
74#	BC214LA	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	300 ☑				10p☑	PEØ	TO92	B
75#	BC214LB†	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	400 ☑				10p☑	PEØ	TO92	B
76#	BC214LC†	300m	200M§Δ	2.4m	$S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	600 ☑				10p☑	PEØ	TO92	B
77#	BC251A	300m	200M§	3.0m	♦J	45	45	5.0	100m	.05u	5.0Ø	2.0mØ	125 Δ	18u	2.7k	1.5	4.0p	PE†Ø	R204	A
78#	BC251B	300m	200M§	3.0m	♦J	45	45	5.0	100m	.05u	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	4.0p	PE†Ø	R204	A
79#	BC251C	300m	200M§	3.0m	♦J	45	45	5.0	100m	.05u	5.0Ø	2.0mØ	450 Δ	60u	8.7k	3.0	4.0p	PE†Ø	R204	A
80#	BC252A	300m	200M§	3.0m	♦J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	125 Δ	18u	2.7k	1.5	4.0p	PE†Ø	R204	A
81#	BC252B	300m	200M§	3.0m	♦J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	4.0p	PE†Ø	R204	A
82#	BC252C	300m	200M§	3.0m	♦J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	450 Δ	60u	8.7k	3.0	4.0p	PE†Ø	R204	A
83#	BC253A	300m	200M§	3.0m	♦J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	125 Δ	18u	2.7k	1.5	4.0p	PE†Ø	R204	A
84#	BC253B	300m	200M§	3.0m	♦J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	4.0p	PE†Ø	R204	A
85#	BC253C	300m	200M§	3.0m	♦J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	450 Δ	60u	8.7k	3.0	4.0p	PE†Ø	R204	A
86#	BC256A	300m	200M§	3.0m	♦J	64	64	5.0	100m	.05u	5.0Ø	2.0mØ	125 Δ	18u	2.7k	1.5	4.0p	PE†Ø	R204	A
87#	BC256B	300m	200M§	3.0m	♦J	64	64	5.0	100m	.05u	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	4.0p	PE†Ø	R204	A
88#	BC259C	300m	200M	2.4m	§	30	25	5.0	50m	40n	5.0	2.0m	500 †					PE	S1	A
89#	BC261A	300m	200M§	2.0m	§J	45	45	5.0	100m	.05u	5.0Ø	2.0mØ	125 Δ	18u	2.7k	1.5	4.0p	PEØ	TO18	AØ
90#	BC261B	300m	200M§	2.0m	§J	45	45	5.0	100m	.05u	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	4.0p	PEØ	TO18	AØ
91#	BC261C	300m	200M§	2.0m	§J	45	45	5.0	100m	.05u	5.0Ø	2.0mØ	450 Δ	60u	8.7k	3.0	4.0p	PEØ	TO18	AØ
92#	BC262A	300m	200M§	2.0m	§J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	125 Δ	18u	2.7k	1.5	4.0p	PEØ	TO18	AØ
93#	BC262B	300m	200M§	2.0m	§J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	4.0p	PEØ	TO18	AØ
94#	BC262C	300m	200M§	2.0m	§J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	450 Δ	60u	8.7k	3.0	4.0p	PEØ	TO18	AØ
95#	BC263A	300m	200M§	2.0m	§J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	125 Δ	18u	2.7k	1.5	4.0p	PEØ	TO18	AØ
96#	BC263B	300m	200M§	2.0m	§J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	4.0p	PEØ	TO18	AØ
97#	BC263C	300m	200M§	2.0m	§J	20	20	5.0	100m	.05u	5.0Ø	2.0mØ	450 Δ	60u	8.7k	3.0	4.0p	PEØ	TO18	AØ
98#	BC266A	300m	200M§	2.0m	§J	64	64	5.0	100m	.05u	5.0Ø	2.0mØ	125 Δ	18u	2.7k	1.5	4.0p	PEØ	TO18	AØ
99#	BC266B	300m	200M§	2.0m	§J	64	64	5.0	100m	.05u	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	4.0p	PEØ	TO18	AØ
100#	BC415A	300m	200M§	2.5m	§J	45	35	5.0	100m	15nØ	5.0Ø	2.0mØ	222	18u	2.7k	1.5	4.5p	PEØ	R204c	A
101#	BC415B	300m	200M§	2.5m	§J	45	35	5.0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	4.5p	PEØ	R204c	A
102#	BC415C	300m	200M§	2.5m	§J	45	35	5.0	100m	15nØ	5.0Ø	2.0mØ	600	60u	8.7k	3.0	4.5p	PEØ	R204c	A
103#	BC416A	300m	200M§	2.5m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	222	18u	2.7k	1.5	4.5p	PEØ	R204c	A
104#	BC416B	300m	200M§	2.5m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	4.5p	PEØ	R204c	A
105#	BC416C	300m	200M§	2.5m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	600	60u	8.7k	3.0	4.5p	PEØ	R204c	A
106#	BC512	300m	200M§Δ	2.4m	$S	50	45	5.0	200m	15nØ	5.0Ø	2.0mØ	60 Δ				5.0p	PE†	R203c	A
107#	BC512A	300m	200M§Δ	2.4m	$S	50	45	5.0	200m	15nØ	5.0Ø	2.0mØ	100 Δ				5.0p	PE†	R203c	A
108#	BC512B	300m	200M§Δ	2.4m	$S	50	45	5.0	200m	15nØ	5.0Ø	2.0mØ	200 Δ				5.0p	PE†	R203c	A
109#	BC513	300m	200M§Δ	2.4m	$S	30	25	5.0	200m	15nØ	5.0Ø	2.0mØ	80 Δ				5.0p	PE†	R203c	A
110#	BC513A	300m	200M§Δ	2.4m	$S	30	25	5.0	200m	15nØ	5.0Ø	2.0mØ	100 Δ				5.0p	PE†	R203c	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1	MPS3638†	310m	100M§Δ	2.8m	#J		25	25	4.0	500m	.04uØ	10Ø	10mØ	20 †Δ	1.2mØ	1.5kØ	26 Ø	20pØ	EA	TO92		A
2	MPS3702	310m	100M§Δ	2.8m	†J		40	25	5 0	200m	.10uØ	5 0Ø	50mØ	60 †Δ				12pØ	EA	TO92		A
3	MPS3703	310m	100M§Δ	2.8m	†J		50	30	5.0	200m	.10uØ	5.0Ø	50mØ	30 †Δ				12pØ	EA	TO92		A
4	HEP717-RT	310m♦	120M§		†J		25	25 $	4.0	100m$	100n$	15		350 †						TO92		A
5▼	HSE410-RT	310m	150M§Δ	3.1m	♦J		50	40	4.0		500nØ	2 0Ø	150mØ	80 †Δ						TO92		A
6	MPS3638A†	310m	150M§Δ	2.8m	#J		25	25	4.0	500m	.04uØ	10Ø	10mØ	100 †Δ	1.2mØ	2.0kØ	15 Ø	10pØ	EA	TO92		A
7	A5T4125†	310m	200M§Δ	2.8m	†S		30	30 *	4.0	200m	50nØ	10Ø	2.0mØ	50 Δ				4.5pØ	PEØ	R203		A
8	EN3905†	310m	200M§Δ	2.8m	†J		40	40	5 0	200m	50n#	10Ø	1.0mØ	50 Δ	40uØ	8.0kØ	5.0 Ø	4.5pØ	DPEØ	TO106		A
9	GET3905	310m	200M§Δ	2.8m	†J		40	40	5.0	200m	50n#	10Ø	1.0mØ	50 Δ	40uØ	8.0kØ	5.0 Ø	4.5p$Ø	Ø	R203a		B
10	HEP57-RT	310m♦	200M§		†J		25	25 $	5.0	200m$	100n$	20		350 †						TO92		A
11	HEP715-RT	310m♦	200M§		†J		50	40 $	4.0	200m$	500n$	10		120 †						TO92		A
12▼	HSE402-RT	310m	200M§Δ	3.1m	♦J		40	40	3.0		1.0uØ	1.0Ø	10mØ	60 †Δ						TO92		A
13▼	HSE403-RT	310m	200M§Δ	3.1m	♦J		30	30	3.0		100nØ	1.0Ø	10mØ	250 †Δ						TO92		A
14	MPS3644	310m	200M§Δ	2.8m	#J		45	45	5.0	500m	35nØ	10Ø	150mØ	100 †Δ#				8.0p	PEΔ	TO92		A
15	MPS3645	310m	200M§Δ	2.8m	#J		60	60	5.0	500m	35nØ	10Ø	150mØ	100 †Δ#				8.0p	PEΔ	TO92		A
16	A5T4126†	310m	250M§Δ	2.8m	†S		25	25 *	4.0	200m	50nØ	10Ø	2.0mØ	120 Δ				4.5pØ	PEØ	R203		A
17	EN3906†	310m	250M§Δ	2.8m	†J		40	40	5.0	200m	50n#	10Ø	1.0mØ	100 Δ	60uØ	12kØ	10 Ø	4.5pØ	DPEØ	TO106		A
18	GET3906	310m	250M§Δ	2.8m	†J		40	40	5.0	200m	50n#	10Ø	1.0mØ	100 Δ	60uØ	12kØ	10 Ø	4.5p$Ø	Ø	R203a		B
19	MPS6580	310m	250M§Δ	2.8m	†J		25	25	3.0		.10uØ	10Ø	2.0mØ	20 †Δ				1p$Ø	Et	R196b		C
20	MPS6533	310m	260M§	2.8m	†J		40	40	4.0	600m	.05uØ	1.0Ø	100mØ	40 †Δ				6pØ	EA	TO92		A
21	MPS6534	310m	260M§	2.8m	†J		40	40	4.0	600m	.05uØ	1.0Ø	100mØ	90 †Δ				6pØ	EA	TO92		A
22	MPS6535	310m	260M§	2.8m	†J		30	30	4.0	600m	.10uØ	1.0Ø	100mØ	30 †Δ				6pØ	EA	TO92		A
23	HEP716-RT	310m♦	300M§		†J		40	40 $	5.0	600m$	500n$	10		110 †						TO92		A
24	MPS6522	310m	340M§	2.8m	†J		25	25	4.0	100m	.05uØ	10Ø	2.0mØ	200 †Δ				4pØ	EAØ	TO92		A
25	MPS6523	310m	340M§	2.8m	†J		25	25	4.0	100m	.05uØ	10Ø	2.0mØ	300 †Δ				4pØ	EAØ	TO92		A
26	MPSH85	310m	350M§Δ	2.8m	$J		30	30	3.0		100nØ	10Ø	2.5mØ	20 †Δ					ANØ	R184		A
27	2N5910†	310m	700M§Δ	2.8m	†S		20	20	4.5	50m	10n§	.50Ø	1.0mØ	15 †Δ				3.0p$Ø		TO106		A
28	MPSL07†	310m	1.0G§	2.8m	†J		6.0	6.0	4.5	80m	10n§	3 0Ø	10mØ	30 †Δ				1 9p	AN	TO92		A
29	MPSL08†	310m	1.2G§	2.8m	†J		12	12	4.5	80m	10n§	3.0Ø	10mØ	30 †Δ				1.9p	AN	TO92		A
30	2N978	330m	65.MΔ	2.6m	$J		30	20	5.0		5.0uØ	10Ø	150mØ	38 †#				45pØ	PDΔ	TO18		AØ
31	2N327	337m	.30M	2.5m	$J			40	20	50m	.00uØ	6.0	1.0m	14				30p	F			
32	2N328	337m	.35M	2.5m	$J			30	20	5.0m	.00uØ	6.0	1.0m	24				30p	F	TO5		
33	2N329	337m	.60M	2.5m	$J			20	20	50m	.00uØ	6.0	1.0m	50				30p	F			
34	2N5455†	340m	450M§Δ	1.9m	§J		15	15	4.5	300m	50n§	1.0Ø	100m	30 †Δ#				6p$Ø		TO52		AØ
35♦	2N5456	340m	450M§Δ	1.9m	§J		25	25	4 5	300m	50n§	1 0Ø	100m	30 †Δ#				6.0p$Ø		TO52		AØ
36♦#	BCY78IX†	345m*	180M§	2.2m	§J			32	5.0	200m	100n§	5.0Ø	2.0mØ	350 †	30u	4.5k	2.0	4.5p$	PEØ	TO18		AØ
37♦#	BCY78VII†	345m*	180M§	2.2m	§J			32	5.0	200m	100n§	5.0Ø	2.0mØ	170 †	18u	2.7k	1.5	4.5p$	PEØ	TO18		AØ
38♦#	BCY78VIII†	345m*	180M§	2.2m	§J			32	5.0	200m	100n§	5.0Ø	2.0mØ	250 †	24u	3.6k	2 0	4.5p$	PEØ	TO18		AØ
39♦#	BCY78X†	345m*	180M§	2.2m	§J			32	5.0	200m	100n§	5.0Ø	2.0mØ	500 †	50u	7.5k	3.0	4.5p$	PEØ	TO18		AØ
40♦#	BCY79IX†	345m*	180M§	2.2m	§J			45	5.0	200m	100n§	5.0Ø	2.0mØ	350 †	30u	4.5k	2.0	4.5p$	PEØ	TO18		AØ
41♦#	BCY79VII†	345m*	180M§	2.2m	§J			45	5.0	200m	100n§	5.0Ø	2.0mØ	170 †	18u	2.7k	1.5	4.5p$	PEØ	TO18		AØ
42♦#	BCY79VIII†	345m*	180M§	2.2m	§J			45	5.0	200m	100n§	5.0Ø	2.0mØ	250 †	24u	3.6k	2.0	4.5p$	PEØ	TO18		AØ
43	2N1196	350m		2.0m	§J		70	70	4.0	100m	250nØ	10Ø	2.0mØ	5.0 †Δ				4.0pØ		TO5		A
44	2N1197	350m		2.0m	§J		70	70	4.0	100m	250nØ	10Ø	2.0mØ	5.0 †Δ				4.0pØ		TO5		A
45	JAN2N1197	350m		2.0m	§J		70	70	4.0		250nØ							4.0p	D	TO5		A
46#	2SA558†	350m		2.3m	§J		40	35	5.0	200m	1.0uØ	1.0Ø	10mØ	50 †					PE	TO18		AØ
47#	2SA559†	350m		2.3m	§J		20	20 §	5.0	200m	500nØ	1.0Ø	10mØ	50					PEΔ	TO18		AØ
48#	2SA559A†	350m		2.3m	§J		40	35	5.0	200m	500nØ	1.0Ø	10mØ	50 †					PE	TO18		AØ
49	SWT1032	350m	40m§Δ	2.8m	$		30	30	4.0	50m	500p§	1.0Ø	10uØ	200 †Δ				4.0pØ		TO92		A
50#	BCY21	350m	500k	2.7m	$J		50	50	30	50m	20nØ	6.0Ø	1.0mØ	10 Δ	15u	600	3.0	45p	PEM	TO5		
51#	BCY23	350m	500k	2.7m	$J		10	30	30	50m	20nØ	6.0Ø	1.0mØ	20 Δ	50u	1.4k	4.0	45p	PEM	TO5		
52#	BCY26	350m	600k	2.7m	$J		30	30	30	50m	20nØ	6.0Ø	1.0mØ	10 Δ	20u	600	3.0	45p	PEM	TO5		
53	BCY19	350m	.70M	2.8m	$J		50	50	30	50m	.02uØ	6.0Ø	1.0mØ	20 Δ	25u	1.4k	4.0	45p	AØ	TO5		
54#	BCY24	350m	1.0M	2.7m	$J		30	10	30	50m	20nØ	6.0Ø	1.0mØ	10 Δ	20u	600	3.0	45p	PEM	TO5		
55	BCY17	350m	1.2M	2.8m	$J		30	30	30	50m	.02uØ	6.0Ø	1.0mØ	20 Δ	35u	1.4k	4.0	45p	AØ	TO5		
56	BCY18	350m	2.0M	2.8m	$J		30	30	30	50m	.02uØ	6.0Ø	1 0mØ	40 Δ	40u	1.8k	5.0	45p	AØ	TO5		
57#	BCY25	350m	2.5M	2.7m	$J		30	10	30	50m	20nØ	6.0Ø	1.0mØ	40 Δ	50u	1.8k	5.0	45p	PEM	TO5		
58	MPS404†	350m	4.0MΔ	2.8m	$J		25	24 *	12	150m	100nØ	.15Ø	12mØ	100 †#				20pØ	ANt	TO92		A
59	MPS404A†	350m	4.0MΔ	2.8m	$J		40	35 *	25	150m	100nØ	.15Ø	12mØ	100 †#				20pØ	ANt	TO92		A
60#	KT501A	350m	5.0M§Δ	2.8m	§J		15	15		500m		1.0	30m	20 †Δ	55uØ	2.5kØ		50p$Ø	PE	R216d		C
61#	KT501B	350m	5.0M§Δ	2.9m	§J		15	15		500m		1.0	30m	20 †Δ	55uØ	2.5kØ		50p$Ø	PE	R216d		C
62#	KT501D	350m	5.0M§Δ	2.8m	§J		30	30		500m		1.0	30m	40 †Δ	55uØ	2.5kØ		50p$Ø	PE	R216d		C
63#	KT501E	350m	5.0M§Δ	2.8m	§J		30	30		500m		1.0	30m	80 †Δ	55uØ	2.5kØ		50p$Ø	PE	R216d		C
64#	KT501G	350m	5.0M§Δ	2.8m	§J		30	30		500m		1.0	30m	20 †Δ	55uØ	2.5kØ		50p$Ø	PE	R216d		C
65#	KT501I	350m	5.0M§Δ	2.8m	§J		45	45		500m		1.0	30m	40 †Δ	55uØ	2.5kØ		50p$Ø	PE	R216d		C
66#	KT501K	350m	5.0M§Δ	2.8m	§J		45	45		500m		1.0	30m	80 †Δ	55uØ	2.5kØ		50p$Ø	PE	R216d		C
67#	KT501L	350m	5.0M§Δ	2.8m	§J		60	60		500m		1.0	30m	20 †Δ	55uØ	2.5kØ		50p$Ø	PE	R216d		C
68#	KT501M	350m	5.0M§Δ	2.8m	§J		60	60		500m		1.0	30m	40 †Δ	55uØ	2.5kØ		50p$Ø	PE	R216d		C
69#	KT501S	350m	5.0M§Δ	2.8m	§J		45	45		500m		1.0	30m	20 †Δ	55uØ	2.5kØ		50p$Ø	PE	R216d		C
70#	KT501V	350m	5.0M§Δ	2.8m	§J		15	15		500m		1.0	30m	80 †Δ	55uØ	2.5kØ		50p$Ø	PE	R216d		C
71#	BCY90	350m	15.M§	2.9m	§J		40	40	20	50m	2nØ	6.0Ø	1.0mØ	25				4p$	PEØ	TO18		AØ
72#	BCY91	350m	15.M§	2.9m	§J		40	40	20	50m	2nØ	6.0Ø	1.0mØ	42				4p$	PEØ	TO18		AØ
73#	BCY92†	350m	15.M§	2.9m	§J		40	40	20	50m	2nØ	6.0Ø	1.0mØ	70				4p$	PEØ	TO18		AØ
74#	BCY93	350m	15.M§	2.9m	§J		70	70	30	50m	2nØ	6.0Ø	1.0mØ	25				4p$	PEØ	TO18		AØ
75#	BCY94	350m	15.M§	2.9m	§J		70	70	30	50m	2nØ	6.0Ø	1.0mØ	42				4p$	PEØ	TO18		AØ
76#	BCY95†	350m	15.M§	2.9m	§J		70	70	30	50m	2nØ	6.0Ø	1.0mØ	70				4p$	PEØ	TO18		AØ
77#	BCY96	350m	15.M§	2.9m	§J		90	90	30	50m	2nØ	6.0Ø	1.0mØ	25				4p$	PEØ	TO18		AØ
78#	BCY97	350m	15.M§	2.9m	§J		90	90	30	50m	2nØ	6.0Ø	1.0mØ	42				4p$	PEØ	TO18		AØ
79#	TCH98†	350m	15.M§	2.9m	§J		40	40	20	50m	2nØ	6.0Ø	1.0mØ	125				4p$	PEØ	TO18		AØ
80#	TCH99†	350m	15.M§	2.9m	§J		70	70	30	50m	2nØ	6 0Ø	1.0mØ	125				4p$	PEØ	TO18		AØ
81#	BCY71	350m	30M§	2.0m	§J		45	45	5.0	200m	500n	10Ø	1.0mØ	325	20u	4.0k	2.1	4.5p$	PEØ	TO18		AØ
82#	BFS37	350m	30M§Δ	2.3m	§J		45	45 Ø	5.0	500m	# 10n	5.0Ø	10uØ	100 Δ†				8 0pØ		X155	Ø	F
83#	BFS37A	350m	30M§Δ	2.3m	§J		30	30 Ø	5.0	500m	# 100n	5.0Ø	100uØ	100 Δ†				8.0pØ		X155	Ø	F
84	2N5086	350m	40M§Δ	2.8m	§J		50	50	3.0	50m	.05uØ	5.0Ø	1.0mØ	150 Δ				4p$Ø	Ø	TO92		A
85	2N5087	350m	40M§Δ	2.8m	§J		50	50	3.0	50m	.05uØ	5.0Ø	1.0mØ	250 Δ				4p$Ø	Ø	TO92		A
86	2N5254*	350m	40M§Δ	3.4m	♦J		40	40	5.0	50m	.01uØ	5.0Ø	1.0mØ	70 Δ	70uØ	25kØ	12 Ø		Ø	R137		PA
87	2N5255*	350m	40M§Δ	3.4m	♦J		40	40	5.0	50m	.01uØ	5.0Ø	1.0mØ	175 Δ	70uØ	25kØ	12 Ø	6p$Ø	Ø	R137		PA
88	2N5256*	350m	40M§Δ	3.4m	♦J		40	40	5.0	50m	.01uØ	5.0Ø	1.0mØ	175 Δ	70uØ	25kØ	12 Ø	6p$Ø	Ø	R137		PA
89	MPSD52	350m	40M§Δ	2.8m	$J		140	140	4.0	50m	100nØ	10Ø	10mØ	25 †Δ					ANt	TO92		A
90	MPSD53	350m	40M§Δ	2.8m	$J		100	100	4.0	50m	100nØ	10Ø	10mØ	25 †Δ					ANt	TO92		A
91	2N5226	350m	50M§Δ	2.8m	$S		25	25	4.0	500m	300nØ	10Ø	50mØ	30 Δ				20p$Ø		TO92		A
92#	BFS44	350m	60M§Δ	2.3m	§J		60	30 Ø	5.0	1.0 #	100nØ	10Ø	10mØ	25 Δ†				25pØ		X155		F
93#	BFS45	350m	60M§Δ	2.3m	§J		60	60 Ø	5.0	1.0 #	100nØ	10Ø	10mØ	35 Δ†				25pØ		X155		F
94	2N4354†	350m	100M§Δ	3.4m	♦J		60	60	5.0	500m	50nØ	10Ø	100uØ	25 †Δ				3.0p$	Ø	R124b		A
95	2N4355†	350m	100M§Δ	3.4m	♦J		60	60	5.0	500m	50nØ	10Ø	100uØ	60 †Δ				3.0p$	Ø	R124b		A
96	2N4356†	350m	100M§Δ	3.4m	♦J		80	80	5.0	500m	50nØ	10Ø	100uØ	25 †Δ				3.0p$	Ø	R124b		A
97	2N5221	350m	100M§Δ	2.8m	$S		15	15	3.0	500m	100nØ	10Ø	50mØ	30 Δ				15p$Ø		TO92		A
98	2N5227	350m	100M§Δ	2.8m	$S		30	30	3.0	50m	100nØ	10Ø	2.0mØ	50 Δ				5.0p$Ø		TO92		A
99	2N5400	350m	100M§Δ	2.8m	§J		130	120	5.0	600m	100nØ	10Ø	1.0mØ	30 Δ				6.0pØ	Ø	TO92		A
100	2N5401	350m	100M§Δ	2.8m	§J		160	150	5.0	600m	50nØ	10Ø	1.0mØ	40 Δ				6.0pØ	Ø	TO92		A
101#	2SA888	350m	100M§	3.2m	†J		25	25	5 0	100m#	1.0u	5.0Ø	2.0mØ	700 Ø†				2.7p	PE	TO92		A
102#	2SA889	350m	100M§	3.2m	†J		45	45	5.0	100m#	1.0u	5.0Ø	2.0mØ	700 Ø†				2.7p	PE	TO92		A
103#	BCW67DA†	350m	100M§Δ		$J			32	5.0	800m		1.0Ø	100mØ	100 †Δ				18pØ	PE	X156		
104#	BCW67DB†	350m	100M§Δ		$J			32	5.0	800m		1.0Ø	100mØ	160 †Δ				18pØ	PE	X156		
105#	BCW67DC†	350m	100M§Δ		$J			32	5.0	800m		1.0Ø	100mØ	250 †Δ				18pØ	PE	X156		
106#	BCW68DF†	350m	100M§Δ		$J			45	5.0	800m		1.0Ø	100mØ	100 †Δ				18pØ	PE	X156		
107#	BCW68DG†	350m	100M§Δ		$J			45	5.0	800m		1.0Ø	100mØ	160 †Δ				18pØ	PE	X156		
108#	BCW68DH†	350m	100M§Δ		$J			45	5.0	800m		1.0Ø	100mØ	250 †Δ				18pØ	PE	X156		
109#	BCX42	350mØ	100M§	2.7m	$J			125	5.0	800m	100n§								PL	X156c		A
110	MPSD55	350m	100M§Δ	2.8m	$J		25	25		500m	1.0uØ	5.0Ø	50mØ	50 †Δ#					ANt	TO92		A

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	2N6225	360m		2.8m	§S	60	60	5.0	100m	50n	5.0Ø	2.0mØ	150 Δ				4.0p§☑		R207b A
2#	2SA741H†	360m		2.4m	§J	20	20	4.0	100m	200nØ	.50Ø	30mØ	30 †Δ					PE	TO18 A
3	A5T4058	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	100uØ	100 Δ					PEØ	R203 A
4	A5T4059	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	45 Δ					PEØ	R203 A
5	A5T4060	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	45 Δ					PEØ	R203 A
6	A5T4061	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	90 Δ					PEØ	R203 A
7	A5T4062	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	180 Δ					PEØ	R203 A
8	LDS257	360m		2.9m	§J	20	15	10	30m	10n§	.50Ø	1.0mØ	60 †Δ				10p☑	PEΔ	TO122 P
9	PET4058	360m		3.6m	♦J	30	30	5.0	100m	100nØ	5.0Ø	100uØ	100 †Δ					PEØ	R110 A
10	PET4059	360m		3.6m	♦J	30	30	5.0	100m	100nØ	5.0Ø	1.0mØ	45 †Δ					PE	R110 A
11	PET4060	360m		3.6m	♦J	30	30	5.0	100m	100nØ	5.0Ø	1.0mØ	45 †Δ					PE	R110 A
12	PET4061	360m		3.6m	♦J	30	30	5.0	100m	100nØ	5.0Ø	1.0mØ	90 †Δ					PE	R110 A
13	PET4062	360m		3.6m	♦J	30	30	5.0	100m	100nØ	5.0Ø	1.0mØ	180 †Δ					PE	R110 A
14	SS29A4	360m					25				4.5Ø	50mØ	30 †Δ				8.0p☑		
15	SS29A5	360m					25				4.5Ø	50mØ	75 †Δ				8 0p☑		
16	TP4058	360m			§J	30	30	6.0		100n	5.0Ø	100uØ	100 †Δ					PEØ	TO98 B
17	TP4059	360m			§J	30	30	6.0		100n	5.0Ø	1.0mØ	45 †Δ					PE	TO98 B
18	TP4060	360m			§J	30	30	6.0		100n	5.0Ø	1.0mØ	45 †Δ					PE	TO98 B
19	TP4061	360m			§J	30	30	6.0		100n	5.0Ø	1.0mØ	90 †Δ					PE	TO98 B
20	TP4062	360m			§J	30	30	6.0		100n	5.0Ø	1.0mØ	180 †Δ					PE	TO98 B
21#	BC326	360m	12M§Δ	2.0m	§J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	150 Δ	40u☑	24k☑	8.0 ☑	9.0p☑	PLØ	TO18 AØ
22#	BC325	360m	15M§Δ	2.0m	§J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	80 Δ	30u☑	13k☑	8.0 ☑	9.0p☑	PLØ	TO18 AØ
23	2N3798A	360m	30M§Δ	2.0m	§S	90	90	5.0	50m	10nØ	10Ø	1.0mØ	150 Δ	60u☑	30k☑	25 ☑	4.0p☑	Ø	TO18 AØ
24	2N3799A	360m	30M§Δ	2.0m	§S	90	90	5.0	50m	10nØ	10Ø	1.0mØ	300 Δ	60u☑	40k☑	25 ☑	4.0p☑	Ø	TO18 AØ
25	2N3962	360m	40M§Δ	2.0m	§J	60	60	6.0	200m	.01uØ	5.0Ø	1.0mØ	100 Δ	40u☑	17k☑	10 ☑	6p☑	Ø	TO18 AØ
26	2N3963	360m	40M§Δ	2.0m	§J	80	80	6.0	200m	.01uØ	5.0Ø	1.0mØ	100 Δ	40u☑	17k☑	10 ☑	6p☑	Ø	TO18 AØ
27#	BFW20	360m	40M§Δ	2.0m	§J	60	60	6.0		.01u§	5.0Ø	1.0mØ	300	19u	8k	10 ☑	6p☑	DPLØ	TO18 AØ
28#	BFW21	360m	40M§Δ	2.0m	§J	80	80	6.0		.01u§	5.0Ø	1.0mØ	300	19u	8k	10 ☑	6p☑	DPLØ	TO18 AØ
29#	BFX37	360m	40M§Δ	2.0m	§J	60	60 Ø	6.0	50m	.02u§	5.0Ø	1.0mØ	200 †				5.0p	DPLØ	TO18
30#	BFX65	360m	40M§Δ	2.7m	§J	45	45	6.0	50m	10n§	5.0Ø	1.0mØ	200	19u	7.0k	3.0	6.5p☑	PEØ	TO18 AØ
31	TZ581	360m	40M§	2.8m	§J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	325	100nb	26		5.0p	PLØ	TO98 B
32	TZ582	360m	40M§	2.8m	§J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	225	100nb	26		5.0p	PLØ	TO98 B
33	2N3039†	360m	50M§Δ	2.4m	§S	50	35	5.0	500m	.02uØ	10Ø	10mØ	20 Δ	250u☑	600 ☑		40p☑		TO50 A
34	2N3040†	360m	50M§Δ	2.4m	§S	40	30	5.0	500m	.02uØ	10Ø	10mØ	40 Δ	500u☑	1.2k☑		40p☑		TO50 A
35	2N3964	360m	50M§Δ	2.0m	§J	45	45	6.0	200m	.01uØ	5.0Ø	1.0mØ	250 Δ	50u☑	20k☑	10 ☑	6p☑	Ø	TO18 AØ
36	2N3965	360m	50M§Δ	2.0m	§J	60	60	6.0	200m	.01uØ	5.0Ø	1.0mØ	250 Δ	50u☑	20k☑	10 ☑	6p☑	Ø	TO18 AØ
37#	BFW22	360m	50M§Δ	2.0m	§J	45	45	6.0		.01u§	5.0Ø	1.0mØ	360	25u	10k	10 ☑	6p☑	DPLØ	TO18 AØ
38#	BFW23	360m	50M§Δ	2.0m	§J	60	60	6.0		.01u§	5.0Ø	1.0mØ	360	25u	10k	10 ☑	6p☑	DPLØ	TO18 AØ
39	TIS38	360m	50M§Δ	2.9m	§S	35	32	4.0	50m	.10uØ	9.0Ø	1.0mØ	25 †Δ				1.7p§	PE†	TO92 B
40#	BFT20	360m	60M§Δ	2.0m	§A	80	35	6.0	1.0	50nØ	6.0Ø	1.0mØ	10 Δ				8.0p☑	PE	TO18 A
41#	BFT21	360m	60M§Δ	2.0m	§A	60	30	6.0	1.0	50nØ	6.0Ø	1.0mØ	30 Δ				8.0p☑	PE	TO18 A
42#	BFT22	360m	60M§Δ	2.0m	§A	40	20	6.0	1.0	50nØ	6.0Ø	1.0mØ	30 Δ				8.0p☑	PE	TO18 A
43#	V741	360m	60M§	6.8m	§J	30	30	5.0		50u	5.0Ø	5.0uØ	180 †	22u	6.6	3.8	5.0p	PLØ	TO18 A
44	TIS37	360m	80M§Δ	2.9m	§S	35	32	6.0	50m	.10uØ	9.0Ø	1.0mØ	45 †Δ				1.7p§	PE†Ø	TO92 B
45	TIS104	360m	90MΔ§	2.8m	§S	60	60	6.0	50m	50nØ	5.0Ø	1.0mØ	210	15u	6.0k	1.3	4.0p☑§	PE†	R203 A
46	2N869	360m	100M§Δ	2.0m	§J	25	18	5.0		.01uØ	5.0Ø	10mØ	20 †#Δ				9p☑		TO18 AØ
47	2N995	360m	100M§Δ	2.0m	§J	20	15	4.0		5.0nØ	1.0Ø	20mØ	35 †#Δ				10p☑		TO18 AØ
48	2N995A†	360m	100M§Δ	2.0m	§J	20	15	4.0		5.0nØ	1.0Ø	20mØ	35 †Δ#				6.0p☑		TO18 AØ
49	2N2695†	360m	100M§Δ	2.0m	§J	25	25	4.0	500m	.02uØ	1.0Ø	50mØ	30 #†Δ	1.2m☑	1.5k☑	26 ☑	20p☑	PLE	TO46 AØ
50	2N2696	360m	100M§Δ	2.0m	§J	25	25	4.0	500m	25nØ	10Ø	10mØ	25 Δ	1.2m☑	1.5k☑	26 ☑	20p☑		TO18 AØ
51	2N3702	360m	100M§Δ	2.8m	§S	40	25	5.0	200m	100nØ	5.0Ø	50mØ	60 †#Δ				12p☑		TO92 B
52	2N3703	360m	100M§Δ	2.8m	§S	50	30	5.0	200m	100nØ	5.0Ø	50mØ	30 †#Δ				12p☑		TO92 B
53	2N5447	360m	100M§Δ	2.9m	§S	40	25	5.0	200m	.10uØ	5.0Ø	50mØ	60 †#Δ				12p§		R203 A
54	2N5448	360m	100M§Δ	2.9m	§S	50	30	5.0	200m	.10uØ	5.0Ø	50mØ	30 †#Δ				12p§		R203 A
55#	BFT69	360m	100M§Δ	2.0m	§A	90	80	5.0	1.0	100nØ	10Ø	100mØ	50 †Δ				10p☑	PE	TO18 A
56#	BFT70	360m	100M§Δ	2.0m	§A	70	60	5.0	1.0	100nØ	10Ø	100mØ	75 †Δ				10p☑	PE	TO18 A
57#	BFT71	360m	100M§Δ	2.0m	§A	60	50	5.0	1.0	100nØ	10Ø	100mØ	100 †Δ				10p☑	PE	TO18 A
58	BSX36☑†	360m	100M§Δ	2.0m	§J	40	40	5.0	500m	15nØ	10Ø	1.0mØ	30 †Δ				8.0p☑	ANØ	TO18 AØ
59	PET3702	360m	100M§Δ	3.6m	♦J	40	25	5.0	500m	100nØ	5.0Ø	50mØ	60 †#Δ				12p☑		R110 A
60	PET3703	360m	100M§Δ	3.6m	♦J	50	30	5.0	500m	100nØ	5.0Ø	50mØ	30 †#Δ				12p☑		R110 A
61	SS3638	360m	100M§Δ				25				1.0Ø	50mØ	30 †Δ				20p☑	Δ	
62	TP3702	360m	100M§Δ		§J	40	25	5.0		100n	5.0Ø	50mØ	60 †Δ				12p§☑	PE	TO98 B
63	TP3703	360m	100M§Δ		§J	50	30	5.0		100n	5.0Ø	50mØ	30 †Δ				12p§☑	PE	TO98 B
64	LDA454	360m	125M§	2.9m	§J	35	35	5.0	30m	10nØ	5.0Ø	10uØ	100 †Δ				6.0p☑	PEØ	TO122 P
65	LDA455	360m	125M§	2.9m	§J	35	35	5.0	30m	10nØ	5.0Ø	10uØ	200 †Δ				6.0p☑	PEØ	TO122 P
66	2N3073†	360m	130M§Δ	2.0m	§J	60	60	4.0	500m	.01u§	10Ø	10mØ	25 Δ	1.2m☑	1.5k☑	26 ☑	10p☑		TO18 AØ
67	2N3121†	360m	130M§Δ	2.0m	§J	45	45	4.0	500m	.01u§	10Ø	10mØ	25 Δ	1.2m☑	1.5k☑	26 ☑	10p☑		TO18 AØ
68	D29A4	360m	140M§Δ	2.8m	§J	35	25	4.0	500m	100n	10Ø	2.0mØ	32 Δ				8.0p§☑	PL	TO98 B
69	D29A5	360m	140M§Δ	2.8m	§J	35	25	4.0	500m	100n	10Ø	2.0mØ	80 Δ				8.0p§☑	PL	TO98 B
70	2N5372†	360m	150M§Δ	2.9m	§J	60	30	5.0	500m	50nØ	10Ø	1.0mØ	20 †Δ				10p§		R204e A
71	2N5373†	360m	150M§Δ	2.9m	§J	60	30	5.0	500m	50nØ	10Ø	1.0mØ	50 †Δ				10p§		R204e A
72	2N5374†	360m	150M§Δ	2.9m	§J	60	30	5.0	500m	50nØ	10Ø	1.0mØ	100 †Δ				10p§		W45 V
73	2N5375†	360m	150M§Δ	2.9m	§J	40	30	5.0	500m	50nØ	10Ø	1.0mØ	20 †Δ				10p§		R207 A
74#	BC477	360m	150M§	6.9m	§	80	90	6.0		10n	5.0Ø	2.0mØ	50 †Δ				4.0p	PE	TO18 A
75#	BC477A	360m	150M§	6.9m	§	80	90	6.0		10n	5.0Ø	2.0mØ	110 †Δ				4.0p	PE	TO18 A
76#	BC477VI	360m	150M§	6.9m	§	80	90	6.0		10n	5.0Ø	2.0mØ	50 †Δ				4.0p	PE	TO18 A
77#	BC478	360m	150M§	6.9m	§	40	40	6.0		10n	5.0Ø	2.0mØ	110 †Δ				4.0p	PE	TO18 A
78#	BC478A	360m	150M§	6.9m	§	40	40	6.0		10n	5.0Ø	2.0mØ	110 †Δ				4.0p	PE	TO18 A
79#	BC478B	360m	150M§	6.9m	§	40	40	6.0		10n	5.0Ø	2.0mØ	110 †Δ				4.0p	PE	TO18 A
80#	BC479	360m	150M§	6.9m	§	40	40	6.0		10n	5.0Ø	2.0mØ	200 †Δ				4.0p	PE	TO18 A
81#	BC479B	360m	150M§	6.9m	§	40	40	6.0		10n	5.0Ø	2 0mØ	450 †☑				4.0p	PE	TO18 A
82#	BCW35	360m	150M	2.7m	§	60	45	5.0	600m	10n	5.0Ø	100mØ	100 Δ	5.0u	40k	10	6.0p	PEØ	TO18
83#	ME0404	360m	150M§Δ	2.8m	§J	25	25 *	4.0		100nØ	5.0Ø	50mØ	30 †Δ				12p☑	PE	R110c A
84	SS3638A	360m	150M§Δ				25				1.0Ø	50mØ	100 †Δ				10p☑	Δ	
85	TZ551†	360m	150M§Δ	2.8m	§J	60	30	5.0	500m	50nØ	10Ø	1.0mØ	20 †Δ				10p§	PL	TO98 B
86	TZ552†	360m	150M§Δ	2.8m		60	30	5.0	500m	50nØ	10Ø	1.0mØ	50 †Δ				10p§	PL	TO98 B
87	TZ553†	360m	150M§Δ	2.8m		60	30	5.0	500m	50nØ	10Ø	1.0mØ	100 †Δ				10p§	PL	TO98 B
88	2N996†	360m	160MΔ	2.0m	§J	15	12	4.0		5nØ	1.0Ø	20mØ	75 †#	40u	2.0k	1.4	7.5p	PEØ	TO18 AØ
89	2N4359	360m	200M§☑	2.0m	§J	45	45	5.0	50m	.01uØ	5.0Ø	1.0mØ	700 ☑	60u☑	20k☑	10 ☑	6p☑	Ø	TO18 AØ
90	2N5378	360m	200M§Δ	2.8m	§J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 Δ	500n☑b	32 ☑		10p§	Ø	R207 A
91	2N5379	360m	200M§Δ	2.8m	§J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	100 Δ	500n☑b	32 ☑		10p§	Ø	R207 A
92	2N5382†	360m	200M§Δ	2.8m	§J	40	40	5.0	200m	50nØ	10Ø	1.0mØ	50 Δ#	40u☑	8.0k☑	5.0 ☑	4.5p§☑	Ø	R207 A
93	A5T3905†	360m	200M§Δ	2.8m	§S	40	40	5.0	200m		1.0Ø	10mØ	100 Δ	60u☑	12k☑	10 ☑	4.5p☑	PE†Ø	R203 A
94#	BFV86†	360m	200M§Δ	500u	§S	60	40	5.0	600m	.02uØ	10Ø	1.0mØ	50 †Δ				8p☑	PE	W5a B
95#	BFV86A†	360m	200M§Δ	500u	§S	60	60	5.0	600m	.01uØ	10Ø	1.0mØ	100 †Δ				8p☑	PE	W5a B
96#	BFV86B†	360m	200M§Δ	500u	§S	60	40	5.0	600m	.02uØ	10Ø	1.0mØ	25 †Δ				8p☑	PE	W5a B
97#	BFV86C†	360m	200M§Δ	500u	§S	60	60	5.0	600m	.01uØ	10Ø	1.0mØ	40 †Δ				8p☑	PE	W5a B
98	BSX36†	360m	200M§	2.0m	§J	40	40	5.0	500m	.01uØ	10Ø	.01mØ	50 †				8p☑	DPEØ	TO18 AØ
99	GET2904†	360m	200M§Δ	3.6m	♦J	60	40	5.0	350m	20nØ	10Ø	100uØ	20 †Δ				8.0p§☑	PE	R208
100	GET2905†	360m	200M§Δ	3.6m	♦J	60	40	5.0	350m	50nØ	10Ø	100uØ	35 †Δ				8.0p§☑	PE	R208
101	GET2906†	360m	200M§Δ	3.6m	♦J	60	40	5.0	350m	20nØ	10Ø	100uØ	20 †Δ				8.0p§☑	PE	R207a F
102	GET2907†	360m	200M§Δ	3.6m	♦J	60	40	5.0	350m	50nØ	10Ø	100uØ	35 †Δ				8.0p§☑	PE	R207a F
103	LDA450	360m	200M§Δ	2.9m	§J	45	30	5.0		10nØ	10Ø	1.0mØ	35 †Δ				8p☑	PE	S5 P
104	LDA451	360m	200M§Δ	2.9m	§J	45	30	5.0		10nØ	10Ø	1.0mØ	75 †Δ				8p☑	PE	S5 P
105	LDA452†	360m	200M§Δ	2.9m	§J	45	30	5.0	300m	10nØ	10Ø	150mØ	40 †Δ#				8p☑	PE	S5 P
106	LDA453†	360m	200M§Δ	2.9m	§J	45	30	5.0	300m	10nØ	10Ø	150mØ	100 †Δ#				8p☑	PE	S5 P
107#	ME0404-1	360m	200M§Δ	2.8m	§J	40	30 *	5.0		50n§	1.0Ø	1.0mØ	20 †Δ				10p☑	PE	R110c A
108#	ME0404-2	360m	200M§Δ	2.8m	§J	40	30 *	5.0		50n§	1.0Ø	1.0mØ	40 †Δ				10p☑	PE	R110c A
109	MM3905†	360m	200M§Δ	2.0m	§J	40	40	5.0	200m	50n#	10Ø	1.0mØ	50 Δ	1.0u	500	100m	5 0p☑	ANØ	TO52 A
110	NS3905	360m	200M§Δ	2.0m	†J	40	40	5.0	200m	50n#	1.0Ø	10mØ	50 Δ†	40u☑	8.0k☑	5.0 ☑	4.5p☑	Ø	TO18 A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a T0200 Ser.	L C E O A D D E
1	HA7535	400m	800k	2.9m	$J	110		110		100n	5.0	1.0mØ	20	1.2ub	30	4 0	95p	F		
2	HA7540	400m	800k	2.9m	$J	150		150		100n	5.0	1.0m	20	1.2ub	30	4 0	95p	A	TO5	
3	HA7541	400m	800k	2.9m	$J	90		90		100n	5.0	1.0m	45	1.2ub	30	4.0	95p	A	TO5	
4	HA7542	400m	800k	2.9m	$J	110		110		100n	5.0	1.0m	45	1.2ub	30	4 0	95p	A	TO5	
5	HA7543	400m	800k	2.9m	$J	60		60		100n	5.0	1 0m	90	1 2ub	30	4 0	95p	A	TO5	
6	2N1232	400m	1.0M	3.0m	$J	60	60	60		100nØ	5.0	1.0m	14 Δ	1.2ub	30	4.0	95p	F	TO5	A
7	2N1233	400m	1.0M	3.0m	$J	60	60	60		100nØ	5.0	1 0m	28 Δ	1.2ub	30	4.0	95p	F	TO5	A
8	2N1439	400m	1.0MΔ	2.3m	§A	50		50	100m	.02u	6.0	1.0m	9.0	35u	1.0k		5.0p	A	TO5	A
9	2N1440	400m	1.0MΔ	2.2m	§J	60	50	60	100m	50u	6.0Ø	1.0mØ	15	1.7ub	60	16	5.0p	A	TO5	A
10	2N1441	400m	1.0MΔ	2.2m	§J	50	35	50	100m	50u	6.0Ø	1.0mØ	27	1.7ub	60	16	5.0p	A	TO5	A
11	2N1442	400m	1.0MΔ	2.2m	§J	50	30	50	100m	50u	6.0Ø	1.0mØ	43	1.2ub	60	16	5.0p	A	TO5	A
12	2N1443	400m	1.0M	2.3m	§A	50		50	100m	.02u	6 0	1.0mØ	65	35u	1.0k		5.0p	A	TO5	A
13	2N3977Ø	400m	1.0M§Δ	2.3m	§S	15	10	15	100m	1.0n	.50Ø	5.0mØ	40 †Δ				14p☑		TO46	AØ
14	2N3978Ø	400m	1.0M§Δ	2.3m	§S	25	20	25	100m	1.0n	.50Ø	5.0mØ	30 †Δ				14p☑		TO46	AØ
15	2N3979Ø	400m	1.0M§Δ	2.3m	§S	40	35	40	100m	1.0n	.50Ø	5.0mØ	20 †Δ				14p☑		TO46	AØ
16	HA7534	400m	1.0M	2.9m	$J	60		60		100n	5.0	1.0mØ	20	1.2ub	30	4.0	95p	F		
17	HA7538	400m	1.0M	2.9m	$J	60		60		100n	5.0	1.0mØ	42	1.2ub	30	4 0	95p	F		
18	HA7630	400m	1.0M		♦	40		20		5.0u	10	5.0m	22	1.5u	10	4.0		A	TO5	
19	HA7631	400m	1.0M		♦	80		40		2.0u	10	5 0m	22	1.5u	10	4.0		A	TO5	
20	HA7632	400m	1.0M		♦	40		20		5.0u	10	5.0m	60	1.5u	10	4.0		A	TO5	
21	HA7633	400m	1.0M		♦	80		40		2.0u	10	5.0m	60	1.5u	10	4.0		A	TO5	
22	HA7804Ø	400m	1.0M	2.8m	ØJ	10	10	10	100m	50n							70p☑	A	TO5	
23	HA7806Ø	400m	1.0M	2.8m	$J	15	15	15		50nØ							90p☑	A	TO5	
24	HA7808Ø	400m	1.0M	2.8m	$J	15	15	15		50nØ							70p☑	A	TO5	
25	HA7810Ø	400m	1.0M	2.8m	ØJ	10	10	10	100m	50nØ							90p☑	A	TO5	
26	HA7815Ø	400m	1.0M	2.8m	ØJ	30	30	30	100m	50nØ							70p☑	A	TO5	
27	2N1228	400m	1.2M	3.0m	$J	15	15	15		100nØ	5.0	1.0m	14 Δ	1.2ub	30	15	95p	F	TO5	A
28	2N1229	400m	1.2M	3.0m	$J	15	15	15		100nØ	5.0	1.0m	28 Δ	1.2ub	30	15	95p	F	TO5	A
29	2N1230	400m	1.2M	3.0m	$J	35	35	35		100n	5.0	1.0m	14 Δ	1.2ub	30	8.0	95p	F	TO5	A
30	2N1231	400m	1.2M	3.0m	$J	35	35	35		100nØ	5.0	1.0m	28 Δ	1.2ub	30	8.0	95p	F	TO5	A
31	HA7530	400m	1.2M	2.9m	$J	35		35	100m	.10u	5.0	1.0m	12	1.2u	30	10	95p		TO5	
32	HA7531	400m	1 2M	2.9m	$J	60		60	100m	10u	5.0	1.0m	12	1.2u	30	10	95p		TO5	
33	HA7532	400m	1.2M	2.9m	$J	15		15		.10u	5.0	1 0mØ	20	1.2u	30	15	95p	F		
34	HA7533	400m	1.2M	2.9m	$J	35		35		.10u	5.0	1.0mØ	20	1.2u	30	8.0	95p	F		
35	HA7536	400m	1.2M	2 9m	$J	15		15		.10u	5 0	1.0mØ	42	1.2u	30	15	95p	F		
36	HA7537	400m	1.2M	2.9m	$J	35		35		.10u	5.0	1.0mØ	42	1.2u	30	8.0	95p	F		
37	2N327B	400m	2.0MΔ	2.3m	§J	50	40	20	100m	1nØ	.50Ø	.10mΔ	14	10u	1.0k		9.0p	PEΔ	TO5	A
38	2N1026A	400m	2.0MΔ	500uØ	§J	35	35		100m	.02u			36				7.0p	E	TO5	
39	2N3064	400m	2.0M	2.3m	§J	110	100	50	100m	.01uØ	6.0Ø	1.0mØ	15 †Δ				10p☑	E	TO46	A
40	2N328B	400m	3.0MΔ	2.3m	§J	50	35	20	100m	1nØ	.50Ø	.10mΔ	28	12u	1.7k		9.0p	PEΔ	TO5	A
41	2N3062	400m	3.0M	2.3m	§J	90	80	40	100m	.01uØ	6.0Ø	1.0mØ	20 †Δ				10p☑	E	TO46	A
42	2N3219Ø	400m	3.0M§	2.3m	§J	40	35	40	100m	1.0n	6.0Ø	1.0mØ	1.0 Δ				14p☑	E	TO46	A
43	2N4982Ø	400m	3.0M§Δ	2.2m	§S	70		70	100m	5 0n	.50Ø	1.0mØ	30 †Δ				10p☑	Δ	TO46	AØ
44	2N6567†	400m	3.0M§Δ	2.3m	§S	30	30 Ø	30	100m	500p	6.0Ø	1.0m	30 Δ				10p☑		TO46	AØ
45	2N3065	400m	4.0M	2.3m	§J	110	100	50	100m	.01uØ	6.0Ø	1.0mØ	30 †Δ				10p☑	E	TO46	A
46	2N3913Ø	400m	4.0M§Δ	2.3m	§S	60	50	50	200m	.5nØ	.50Ø	1.0mØ	40 †Δ				8p☑	Δ	TO18	A
47	2N329B	400m	5.0MΔ	2.3m	§J	50	30	20	100m	1nØ	.50Ø	.10mΔ	60	15u	3.0k		9.0p	PEΔ	TO5	A
48	2N2946Ø	400m	5.0M§Δ	4.3m	§J	40	35	40	100m	.50n	.50Ø	1.0mØ	70 †				10p☑	E	TO46	A
49	2N2946AØ	400m	5 0M§Δ	2.3m	§S	40	35	40	100m	5 0u	.50Ø	1.0mØ	50 †Δ				10p☑	Δ	TO46	AØ
50♦	JAN2N2946AØ	400m	5.0M§Δ	2.3m	§S	40	35	40	100m	500p	.50Ø	1.0mØ	50 †Δ				10p☑	Δ	TO46	AØ
51	2N3060	400m	5.0M	2.3m	§J	70	60	30	100m	5nØ	6.0Ø	1.0mØ	30 †Δ				10p☑	E	TO46	A
52	2N3063	400m	5.0M	2.3m	§J	90	80	40	100m	.01uØ	6.0Ø	1.0mØ	50 †Δ				10p☑	E	TO46	A
53	2N3218Ø	400m	5 0M§	2 3m	§J	25	20	25	100m	1.0n	6.0Ø	1.0mØ	1.0 Δ				14p☑	E	TO46	A
54	2N3527	400m	5.0M§Δ	2.3m	§J	30	30	10	100m	.1nØ	6.0Ø	.1uØ	40 †				10p☑	E	TO46	AØ
55	2N3677Ø	400m	5.0M§Δ	2.3m	§S	30	20	30	100m	1.0n	6.0Ø	1.0m	4 0 Δ§				10p☑		TO46	AØ
56	2N4981Ø	400m	5.0M§Δ	2.2m	§S	50		50	100m	3.0n	.50Ø	1.0mØ	40 †Δ				10p☑	Δ	TO46	AØ
57	2N3840Ø	400m	6.0M§Δ	2.3m	§S	50	50	50	100m	.5nØ	.50Ø	1.0mØ	50 †Δ				9p☑		TO46	A
58	2N3061	400m	8.0M	2.3m	§J	70	60	30	100m	5nØ	6.0Ø	1.0mØ	60 †Δ				10p☑	E	TO46	A
59	2N3914Ø	400m	8.0M§Δ	2.3m	§S	60	40	40	200m	.5nØ	.50Ø	1.0mØ	60 †Δ				8p☑		TO18	A
60	2N2945Ø	400m	10M§Δ	4.3m	§J	25	20	25	100m	.20n	.50Ø	1.0mØ	100 †				10p☑	E	TO46	A
61	2N2945AØ	400m	10M§Δ	2.3m	§S	25	20	25	100m	2.0u	.50Ø	1.0mØ	70 †Δ				10p☑	Δ	TO46	AØ
62♦	JAN2N2945AØ	400m	10M§Δ	2.3m	§S	25	20	25	100m	200p	.50Ø	1.0mØ	70 †Δ				10p☑	Δ	TO46	AØ
63	2N3058	400m	10.M	2.3m	§S	6.0	6.0	6.0	100m	.10n	.50Ø	.1uØ	40 Δ				10p☑	EØ	TO46	A
64	2N3059	400m	10.M	2 3m	§S	10	10	10	100m	.10n	3.0Ø	.01mØ	100 Δ				10p☑	EØ	TO46	A
65	2N3217Ø	400m	10.M§	2.3m	§J	15	10	15	100m	1.0n	6.0Ø	1.0mØ	1.0 Δ				14p☑	E	TO46	A
66	2N4980Ø	400m	10M§Δ	2 2m	§S	30		30	100m	1.0n	.50Ø	1.0mØ	60 †Δ				10p☑	Δ	TO46	AØ
67	2N2944Ø	400m	15M§Δ	4.3m	§J	15	10	15	100m	.10n	.50Ø	1.0mØ	200 †				10p☑	E	TO46	A
68	2N2944AØ	400m	15M§Δ	2.3m	§S	15	10	15	100m	1.0u	.50Ø	1.0mØ	100 †Δ				10p☑	Δ	TO46	AØ
69▼	JAN2N2944AØ	400m	15M§Δ	2.3m	§S	15	10	15	100m	100p	.50Ø	1.0mØ	100 †Δ				10p☑	Δ	TO46	AØ
70	2N3915Ø	400m	15M§Δ	2.3m	§S	60	30	30	200m	.5nØ	.50Ø	1.0mØ	90 †Δ				8p☑	Δ	TO18	A
71	2N4007†	400m	15M§Δ	2.3m	§S	20	15	20	100m	.30n	6.0Ø	1.0m	30 §Δ				10p$☑		TO46	AØ
72	2N4008†	400m	15M§Δ	2.3m	§S	35	30	35	100m	3nØ	6.0Ø	1.0m	20 §Δ				10p$☑		TO46	AØ
73#	BCY90B	400m	15.M§	3.3m	$J	40	40	20	50m	2nØ	6.0Ø	1.0mØ	25				4p$	PEØ	TO5	AØ
74#	BCY91B	400m	15.M§	3.3m	$J	40	40	20	50m	2nØ	6.0Ø	1.0mØ	42				4p$	PEØ	TO5	AØ
75#	BCY92B†	400m	15.M§	3.3m	$J	40	40	20	50m	2nØ	6.0Ø	1.0mØ	70				4p$	PEØ	TO5	AØ
76#	BCY93B	400m	15.M§	3 3m	$J	70	70	30	50m	2nØ	6.0Ø	1.0mØ	25				4p$	PEØ	TO5	AØ
77#	BCY94B	400m	15.M§	3.3m	$J	70	70	30	50m	2nØ	6.0Ø	1.0mØ	42				4p$	PEØ	TO5	AØ
78#	BCY95B†	400m	15.M§	3.3m	$J	70	70	30	50m	2nØ	6.0Ø	1 0mØ	70				4p$	PEØ	TO5	AØ
79#	BCY96B	400m	15.M§	3.3m	$J	90	90	30	50m	2nØ	6.0Ø	1.0mØ	25				4p$	PEØ	TO5	AØ
80#	BCY97B	400m	15.M§	3.3m	$J	90	90	30	50m	2nØ	6.0Ø	1.0mØ	42				4p$	PEØ	TO5	AØ
81#	BCY98B†	400m	15.M§	3.3m	$J	40	40	20	50m	2nØ	6 0Ø	1.0mØ	125				4p$	PEØ	TO5	AØ
82#	TCH99B†	400m	15.M§	3.3m	$J	70	70	30	50m	2nØ	6.0Ø	1.0mØ	125				4p$	PEØ	TO5	AØ
83	2N2601	400m	20M§Δ	2.2m	§S	60	60	6.0	50m	25nØ	5.0	1.0m	18 Δ	1.0u☑b	35 ☑	10 ☑	6.0p☑		TO46	AØ
84	2N4006†	400m	20M§Δ	2.3m	§S	10	6.0	10	100m	.10n	6.0Ø	1.0m	40 §Δ				10p$☑		TO46	AØ
85	2N4413	400m	20M§Δ	2.3m	§S	40	30	5.0	600m	10nØ	5.0Ø	1.0mØ	120 Δ	500nb	32 ☑		10p☑	Ø	TO18	AØ
86	2N4413A	400m	20M§Δ	2.3m	§S	60	60	5.0	600m	10nØ	5.0Ø	1.0mØ	120 Δ	500nb	32 ☑		10p☑	Ø	TO18	Ø
87	2N4415	400m	20M§Δ	2.3m	§S	40	30	5.0	600m	10nØ	5.0Ø	1.0mØ	100 Δ	500nb	32 ☑		10p☑	Ø	TO18	AØ
88	2N4415A	400m	20M§Δ	2.3m	§S	60	60	5 0	600m	10nØ	5 0Ø	1.0mØ	100 Δ	500nb	32 ☑		10p☑	Ø	TO18	A
89	2N2595	400m	30M§Δ	2.2m	§S	80	60	6.0	50m	25nØ	5.0Ø	1.0m	15 Δ		1.2k☑		6.0p☑		TO46	AØ
90	2N2598	400m	30M§Δ	2.2m	§S	125	80	7.0	50m	25nØ	5.0Ø	5.0m	20 Δ		1.2k☑		6.0p☑		TO46	AØ
91	2N2604	400m	30M§Δ	2.2m	§S	60	45	6.0	30m	10nØ	5.0	1.0m	60 Δ	1.0u☑b	35 ☑	10 ☑	6.0p☑	Ø	TO46	AØ
92	JAN2N2604	400m	30M§Δ	2.2m	§S	80	60	6.0	30m	10nØ	5.0Ø	1 0mØ	60 Δ	40u☑	10k☑	10 ☑	6.0p☑	Ø	TO46	AØ
93	2N2605	400m	30M§Δ	2.2m	§S	60	45	6.0	30m	10nØ	5.0	1.0m	150 Δ	1.0u☑b	35 ☑	10 ☑	6.0p☑	Ø	TO46	AØ
94	JAN2N2605	400m	30M§Δ	2.2m	§S	70	60	6 0	30m	10nØ	5.0Ø	1.0mØ	150 Δ	60u☑	20k☑	10 ☑	6.0p☑	Ø	TO46	AØ
95	2N2596	400m	40M§Δ	2.2m	§S	80	60	6.0	50m	25nØ	5.0Ø	1.0m	30 Δ		1.5k☑		6.0p☑		TO46	AØ
96	2N2599	400m	40M§Δ	2.2m	§S	125	80	7.0	50m	25nØ	5.0Ø	5.0m	40 Δ		1.5k☑		6.0p☑		TO46	AØ
97	2N2599A	400m	40M§Δ	2.2m	§S	125	100	7.0	50m	25nØ†	5.0Ø	5.0m	40 Δ				6.0p☑		TO46	AØ
98	2N2602	400m	40M§Δ	2.2m	§S	60	60	6.0	50m	25nØ	5.0	1.0m	36 Δ	1 0u☑b	35 ☑	10 ☑	6.0p☑		TO46	AØ
99	2N3930	400m	40M§Δ	2.3m	§J	180	180	6.0	100m	10nØ	10Ø	1.0mØ	80 Δ	25u☑	12k☑		7p☑	Ø	TO18	AØ
100	2N4017*	400m	40M§Δ	2.2m	§J	45	45	6 0	200m	10nØ	5.0Ø	1.0mØ	250 Δ	50u☑	20k☑	10 ☑	6.0p☑	Ø	R131a	PA
101	2N4018*	400m	40M§Δ	2.2m	§J	80	80	6.0	200m	10nØ	5.0Ø	1.0mØ	100 Δ	40u☑	17k☑	10 ☑	6.0p☑	Ø	R131a	PA
102	2N4019*	400m	40M§Δ	2.2m	§J	60	60	6.0	200m	10nØ	5.0Ø	1.0mØ	100 Δ	50u☑	20k☑	10 ☑	6.0p☑	Ø	R131a	PA
103	2N4021*	400m	40M§Δ	2 3m	§J	60	60	6.0	200m	01uØ	5.0Ø	1.0mØ	100 Δ	40u☑	17k☑	10 ☑	6p☑	Ø*	R131c	PA
104	2N4024*	400m	40M§Δ	2.3m	§J	60	60	6.0	200m	.01uØ	5.0Ø	1.0mØ	100 Δ	40u☑	17k☑	10 ☑	6p☑	Ø*	R131c	PA
105	2N4357	400m	40M§Δ	2.3m	§J	240	240	6.0	100m	.02uØ	10Ø	1.0mØ	100 Δ	25u☑	12k☑		7p☑	Ø	TO18	AØ
106	2N2605A	400m	45M	2.2m	§S	60	45	6.0	30m	2.0nØ	5.0Ø	10mØ	600 †☑	1.0u☑b	35 ☑	10 ☑	6.0p	Ø	TO46	Ø
107	2N3547	400m	45M§Δ	2.2m	§S	60	60	6.0	100m	25nØ	5.0Ø	1.0mØ	100 †Δ	1.0u☑b	35 ☑	10 ☑	8.0p☑	PLØ	TO18	AØ
108	2N721	400m	50M§Δ	2.7m	§J	50	35	5.0		1.0uØ	5.0Ø	1.0mØ	15 Δ	1.0u☑b	35 ☑	8.0 ☑	45p☑		TO18	AØ
109	2N721A	400m	50M§Δ	2.2m	§J	50	35	5.0		100nØ	10Ø	5.0mØ	15 †Δ	5.0u☑b	10 ☑	8.0 ☑	40p☑	PL	TO18	AØ
110	2N2590	400m	50M§Δ	2.2m	§S	100	60	7.0	50m	25nØ	5.0Ø	5.0mØ	40 Δ	1.5u☑b	10 ☑		15p☑		TO46	AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N6007†	400m	800M§Δ	4.0m	♦J		50	40	5.0	500m	10nØ	10Ø	1.0m	235 Δ	150uⵁ	17kⵁ		8.0p$ⵁ	Ø	R203a	A
2#	BCY38	410m	1.5M§	3.3m	$J		32	32	12	250m	100nØ	6.0Ø	10mØ	27					A	TO5	A§
3#	BCY39	410m	1.5M§	3.3m	$J		64	64	12	250m	100nØ	6.0Ø	10mØ	35					A	TO5	A§
4#	BCY54	410m	2.0M§	3.3m	$J		50	50	12	250m	100nØ	6.0Ø	10mØ	50					A	TO5	A§
5#	BCY40	410m	2.5M§	3.3m	$J		32	32	12	250m	100nØ	6.0Ø	10mØ	50					A	TO5	A§
6	2N2393	450m	50M§Δ	3.0m	$J		50	35	5.0	300m	1.0uØ	5.0Ø	1.0mØ	15 Δ	1.0uⵁb	35 ⵁ	8.0 ⵁ	45pⵁ	PL	W4	
7	2N2394	450m	60M§Δ	3.0m	$J		50	35	5.0	300m	1.0uØ	5.0Ø	1.0mØ	25 Δ	1.0uⵁb	35 ⵁ	8.0 ⵁ	45pⵁ	PL	W4	
8#	2SA931	450m	70M§		$J		150	120	5.0	50m	1.0uØ	5.0Ø	10 Ø	35 †				7.0p	PE	R179d	A
9#	2SA932	450m	70M§		$J		150	150	5.0	50m	1.0uØ	5.0Ø	10 Ø	35 †				7.0p	PE	R179d	A
10#	BCW75-10†	450m	100M§Δ	2.6m	$J			32	5.0	800m		1.0Ø	100mØ	160 †ⵁ				18pⵁ	PE	TO18	A
11#	BCW75-16†	450m	100M§Δ	2.6m	$J			32	5.0	800m		1.0Ø	100mØ	250 †ⵁ				18pⵁ	PE	TO18	A
12#	BCW75-25†	450m	100M§Δ	2.6m	$J			32	5.0	800m		1.0Ø	100mØ	400 †ⵁ				18pⵁ	PE	TO18	A
13#	BCW76-10†	450m	100M§Δ	2.6m	$J			45	5.0	800m		1.0Ø	100mØ	160 ⵁ†				18pⵁ	PE	TO18	A
14#	BCW76-16†	450m	100M§Δ	2.6m	$J			45	5.0	800m		1.0Ø	100mØ	250 †ⵁ				18pⵁ	PE	TO18	A
15#	BCW76-25†	450m	100M§Δ	2.6m	$J			45	5.0	800m		1.0Ø	100mØ	400 †ⵁ				18pⵁ	PE	TO18	A
16#	BCX23	450m	100M§	2.5m	$J			125	5.0	800m		1.0Ø	100mØ	63 †Δ				12p	PE	R179z	A
17#	BCX39	450mØ	100M§	2.5m	$J			100	7.0	800m	100n§							12p	PE	TO18	A
18#	BCX78IX†	450m	200M§	3.5m	$J			32	5.0	100m	10n§	5.0Ø	2.0mØ	250 †Δ				4.5p$ⵁ	PEØ	R204d	A
19#	BCX78VIII†	450m	200M§	3.5m	$J			32	5.0	100m	10n§	5.0Ø	2.0mØ	120 †Δ				4.5p$ⵁ	PEØ	R204d	A
20#	BCX78VIIII†	450m	200M§	3.5m	$J			32	5.0	100m	10n§	5.0Ø	2.0mØ	180 †Δ				4.5p$ⵁ	PEØ	R204d	A
21#	BCX78X†	450m	200M§	3.5m	$J			32	5.0	100m	10n§	5.0Ø	2.0mØ	380 †Δ				4.5p$ⵁ	PEØ	R204d	A
22#	BCX79IX†	450m	200M§	3.5m	$J			45	5.0	100m	10n§	5.0Ø	2.0mØ	250 †Δ				4.5p$ⵁ	PEØ	R204d	A
23#	BCX79VIII†	450m	200M§	3.5m	$J			45	5.0	100m	10n§	5.0Ø	2.0mØ	120 †Δ				4.5p$ⵁ	PEØ	R204d	A
24#	BCX79VIIII†	450m	200M§	3.5m	$J			45	5.0	100m	10n§	5.0Ø	2.0mØ	180 †Δ				4.5p$ⵁ	PEØ	R204d	A
25#	BCX79X†	450m	200M§	3.5m	$J			45	5.0	100m	10n§	5.0Ø	2.0mØ	380 †Δ				4.5p$ⵁ	PEØ	R204d	A
26	KD5527	450mØ	2.0G	2.6m	J		20	12	2.5	50m	50nØ	1.0Ø	3.0mØ	20 †Δ				750f	PEØ	R204e	V
27#	2SA911	470m	9.0M§		♦J		850	550	12	100m	1.5uØ	5.0Ø	10mØ	30 †Δ				15pⵁ	D	TO39	D
28#	2SA761	475m	80M§	5.0m	$S		110	110	5.0	2.0	10uØ	2.0Ø	400mØ	50 †*				55p	E	TO5	A
29	2N3764A†	500m		2.8m	§S		50	5.0	50	1.5	100u#	1.5Ø	1.0 Ø	20 †Δ				15pⵁ		TO46	AØ
30	2N5811	500m		4.5m	†J		35	25	5.0	750m	100nØ	2.0Ø	2.0mØ	60 Δ				15p$ⵁ		R203a	A
31	2N5813	500m		4.5m	†J		35	25	5.0	750m	100nØ	2.0Ø	2.0mØ	150 Δ				15p$ⵁ		R203a	A
32	2N5815	500m		4.5m	†J		50	40	5.0	750m	100nØ	2.0Ø	2.0mØ	60 Δ				15p$ⵁ		R203a	A
33	2N5817	500m		4.5m	†J		50	40	5.0	750m	100nØ	2.0Ø	2.0mØ	100 Δ				15p$ⵁ		R203a	A
34	2N5819	500m		4.5m	†J		50	40	5.0	750m	100nØ	2.0Ø	2.0mØ	150 Δ				15p$ⵁ		R203a	A
35	2N5821	500m		4.5m	†J		70	60	5.0	750m	100nØ	2.0Ø	2.0mØ	60 Δ				15p$ⵁ		R203a	A
36	2N5823	500m		4.5m	†J		70	60	5.0	750m	100nØ	2.0Ø	2.0mØ	100 Δ				15p$ⵁ		R203a	A
37#	2SA643	500m		2.5m	♦J		40	20	5.0	500m	200nØ	1.0Ø	100mØ	120 †#*					E	R205a	B
38#	BFX30	500m		3.4m	§J		65	65	5.0	600m	#.07uØ	.40Ø	10mØ	50 †Δ				12pⵁ	PE	TO5	AØ
39#	MPS3644K†	500m		3.3m	§A		45	45	5.0	500m	35n§Ø	10Ø	10mØ	100 Δ	80u	480	1.6	4.5p	PL	X167	A
40#	MPS3644L†	500m		3.3m	§A		45	45	5.0	500m	35n§Ø	10Ø	10mØ	100 Δ	80u	480	1.6	4.5p	PL	X168	A
41#	MPS3644M†	500m		3.3m	§A		45	45	5.0	500m	35n§Ø	10Ø	10mØ	100 Δ	80u	480	1.6	4.5p	PL	X169	A
42#	MPS3645K†	500m		3.3m	§A		60	60	5.0	500m	35n§Ø	10Ø	10mØ	100 Δ	80u	480	1.6	4.5p	PL	X167	A
43#	MPS3645L†	500m		3.3m	§A		60	60	5.0	500m	35n§Ø	10Ø	10mØ	100 Δ	80u	480	1.6	4.5p	PL	X168	A
44#	MPS3645M†	500m		3.3m	§A		60	60	5.0	500m	35n§Ø	10Ø	10mØ	100 Δ	80u	480	1.6	4.5p	PL	X169	A
45	HA7501	500m	.70M	4.0m	$J		60		60		.10uØ	5.0	1.0m	8.0					F		
46	HA7506	500m	.90M	4.0m	$J		35		35		.50uØ	5.0	1.0m	12					F		
47	2N5110	500m	1.0M§Δ	33m	§J		40	40	10	1	75u	10Ø	100mØ	10 Δ				500p		TO5	AØ
48	2N5111	500m	1.0M§Δ	33m	§J		80	80	10	1	75u	10Ø	100mØ	10 Δ				500p		TO5	AØ
49	HA7502	500m	1.0M	4.0m	$J		60		60		.10uØ	5.0	1.0m	16					F		
50	HA7510	500m	1.2M	4.0m	$J		35		35		.50uØ	5.0	1.0m	21					F		
51	HA7507	500m	1.6M	4.0m	$J		20		20		.10uØ	5.0	1.0m	15					F		
52	2N3910Ø	500m	4.0M§Δ	2.9m	§S		60	50	50	200m	.50nØ	.50Ø	1.0mØ	40 †Δ				8pⵁ		TO46	AØ
53	2N3911Ø	500m	8.0M§Δ	2.9m	§S		60	40	40	200m	.5nØ	.50Ø	1.0mØ	60 †Δ				8pⵁ		TO46	AØ
54	2N3912Ø	500m	10M§Δ	2.9m	§S		60	30	30	200m	.5nØ	.50Ø	1.0mØ	90 †Δ				8pⵁ		TO46	AØ
55	MM4052	500m	12M§Δ	2.8m	§J		30	30	30	500m	500pØ	1.0Ø	10mØ	20 Δ				10pⵁ	ⵁ	TO46	A
56	A5T3798	500m	30M§Δ	2.8m	$S		60	60	5.0	50m	10nØ	10Ø	1.0mØ	150 Δ	60uⵁ	30k	25	4.0pⵁ	Ø	R203	A
57▼	HSE211-RT	500m	30M§Δ	4.0m	§J		40	60	5.0		500nØ	10Ø	150mØ	30 †Δ						TO18	A
58	2N5254/78*	500m	60M§Δ	2.8m	§J		40	40 Ø	5.0	50m	10nØ	5.0Ø	1.0mØ	70 Δ	70uⵁ	25kⵁ	12 ⵁ	6.0p$ⵁ	PL	R131c	
59	2N5255/78*	500m	60M§Δ	2.8m	§J		40	40 Ø	5.0	50m	10nØ	5.0Ø	1.0mØ	70 Δ	70uⵁ	25kⵁ	12 ⵁ	6.0p$ⵁ	PL	R131c	
60	2N5256/78*	500m	60M§Δ	2.8m	§J		40	40 Ø	5.0	50m	10nØ	5.0Ø	1.0mØ	175 Δ	70uⵁ	25kⵁ	12 ⵁ	6.0p$ⵁ	PL	R131c	
61	D34J1	500m	60M§Δ	4.0m	§J		60	60	5.0	500m	25nØ	1Ø	10mØ	60 †Δ#				20p$	PEΔ	R203a	A
62	D34J2	500m	60M§Δ	4.0m	§J		60	60	5.0	500m	25nØ	1.0Ø	10mØ	100 †Δ#				20p$	PEΔ	R203a	A
63	D34J3	500m	60M§Δ	4.0m	§J		60	60	5.0	500m	25nØ	1.0Ø	10mØ	250 †Δ#				20p$	PEΔ	R203a	A
64	D34J4	500m	60M§Δ	4.0m	§J		80	80	5.0	500m	25nØ	1.0Ø	10mØ	60 †Δ#				20p$	PEΔ	R203a	A
65	D34J5	500m	60M§Δ	4.0m	§J		80	80	5.0	500m	25nØ	1.0Ø	10mØ	100 †Δ#				20p$	PEΔ	R203a	A
66	D34J6	500m	60M§Δ	4.0m	§J		80	80	5.0	500m	25nØ	1.0Ø	10mØ	250 †Δ#				20p$	PEΔ	R203a	A
67	D34J7	500m	60M§Δ	4.0m	§J		100	100	5.0	500m	25nØ	1.0Ø	10mØ	60 †Δ#				20p$	PEΔ	R203a	A
68	D34J8	500m	60M§Δ	4.0m	§J		100	100	5.0	500m	25nØ	1.0Ø	10mØ	100 †Δ#				20p$	PEΔ	R203a	A
69	D34J9	500m	60M§Δ	4.0m	§J		100	100	5.0	500m	25nØ	1.0Ø	10mØ	250 †Δ#				20p$	PEΔ	R203a	A
70	D29E9	500m	80M§Δ	4.0m	§J		70	60	5.0	750m	100n§	2.0Ø	2.0mØ	60 †Δ				15p$ⵁ	PE	TO98	B
71#	2SA532	500m	90M§		§J		50	50	4.0	200m	10u	6.0Ø	50mØ	80 †					PL	TO39	
72	2N3806*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	150 Δ	60uⵁ	30kⵁ	25 ⵁ	4pⵁ	Ø	R131c	PA
73	2N3807*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 Δ	60uⵁ	40kⵁ	25 ⵁ	4pⵁ	Ø	R131c	PA
74	2N3808*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	150 Δ	60uⵁ	30kⵁ	25 ⵁ	4pⵁ	Ø	R131c	PA
75	2N3809*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 Δ	60uⵁ	40kⵁ	25 ⵁ	4pⵁ	Ø	R131c	PA
76	2N3810*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	150 Δ	60uⵁ	30kⵁ	25 ⵁ	4pⵁ	Ø	R131c	PA
77	2N3810A*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	150 Δ	60uⵁ	30kⵁ	25 ⵁ	4pⵁ	*Ø	R131a	
78	2N3811*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 Δ	60uⵁ	40kⵁ	25 ⵁ	4pⵁ	Ø	R131c	PA
79	2N3811A*	500m	100M§Δ	2.9m	§S		60	60	5.0	50m	.01uØ	10Ø	1.0mØ	300 Δ	60uⵁ	40kⵁ	25 ⵁ	4pⵁ	*Ø	R131a	
80	2N4026†	500m	100M§Δ	2.9m	§J		60	60	5.0	1	.05uØ	5.0Ø	.10mØ	30 †Δ				20p$ⵁ		TO18	AØ
81	2N4027†	500m	100M§Δ	2.9m	§J		80	80	5.0	1	.05uØ	5.0Ø	.10mØ	30 †Δ				20p$ⵁ		TO18	AØ
82#	2SA851	500m	100M§	4.0m	$J		50	50	6.0	100m	100nØ	5.0Ø	2.0mØ	500 †				3.0p	PE	TO92	
83#	2SA852	500m	100M§	4.0m	$J		35	35	6.0	100m	100nØ	5.0Ø	2.0mØ	500 †				3.0p	PE	TO92	
84#	2SA853	500m	100M§	4.0m	$J		35	35	6.0	100m	100nØ	5.0Ø	2.0mØ	500 †				3.0p	PEØ	TO92	
85#	2SA857	500m	100M§	4.0m	$J		150	120	5.0	50m	1.0uØ	5.0Ø	10mØ	150 †				3.0p	PEΔ	R195d	B
86#	2SA858	500m	100M§	4.0m	$J		150	150	5.0	50m	1.0uØ	5.0Ø	10mØ	150 †				3.0p	PEΔ	R195d	B
87	BC327	500m	100M§	4.0m	$J			45	5.0	500m	100n	1.0Ø	100mØ	100 †Δ				8.0p$	PE	TO92	F
88	BC328	500m	100M§	4.0m	$J			25	5.0	500m	100n	1.0Ø	100mØ	100 †Δ				8.0p$	PE	TO92	F
89#	BC432	500m	100M§	4.0m	$J		70	60	5.0	500m	100n§	1.0Ø	100mØ	63 Δ				12p	PE	TO92	A
90	D29E1	500m	100M§Δ	4.0m	$J		35	25	5.0	750m	100n§	2.0Ø	2.0mØ	60 †Δ				15p$ⵁ	PE	TO98	B
91	D29E4	500m	100M§Δ	4.5m	†J		50	40	5.0	750m	100n§	2.0Ø	2.0mØ	60 †Δ				15p$ⵁ	PE†	TO98	B
92#	MPS3638K†	500m	100M§Δ	3.3m	§A		25	25	4.0	500m	35n§Ø	10Ø	10mØ	25 Δ	1.2uⵁ	1.5kⵁ	26 ⵁ	20pⵁ	PL	X167	A
93#	MPS3638L†	500m	100M§Δ	3.3m	§A		25	25	4.0	500m	35n§Ø	10Ø	10mØ	25 Δ	1.2uⵁ	1.5kⵁ	26 ⵁ	20pⵁ	PL	X168	A
94#	MPS3638M†	500m	100M§Δ	3.3m	§A		25	25	4.0	500m	35n§Ø	10Ø	10mØ	25 Δ	1.2uⵁ	1.5kⵁ	26 ⵁ	20pⵁ	PL	X169	A
95#	MPS3702K	500m	100M§Δ	3.3m	§A		40	25	5.0	200m	100nØ	5.0Ø	50mØ	60 †Δⵁ				12pⵁ	PL	X167	A
96#	MPS3702L	500m	100M§Δ	3.3m	§A		40	25	5.0	200m	100nØ	5.0Ø	50mØ	60 †Δⵁ				12pⵁ	PL	X168	A
97#	MPS3702M	500m	100M§Δ	3.3m	§A		40	25	5.0	200m	100nØ	5.0Ø	50mØ	60 †Δⵁ				12pⵁ	PL	X169	A
98#	MPS3703K	500m	100M§Δ	3.3m	§A		50	30	5.0	200m	100nØ	5.0Ø	50mØ	60 †Δⵁ				12pⵁ	PL	X167	A
99#	MPS3703L	500m	100M§Δ	3.3m	§A		50	30	5.0	200m	100nØ	5.0Ø	50mØ	60 †Δⵁ				12pⵁ	PL	X168	A
100#	MPS3703M	500m	100M§Δ	3.3m	§A		50	30	5.0	200m	100nØ	5.0Ø	50mØ	60 †Δⵁ				12pⵁ	PL	X169	A
101#	MPS3704K	500m	100M§Δ	3.3m	§A		50	30	5.0	600m	100nØ	2.0Ø	50mØ	100 †Δ#				12pⵁ	PL	X167	A
102#	MPS3704L	500m	100M§Δ	3.3m	§A		50	30	5.0	600m	100nØ	2.0Ø	50mØ	100 †Δ#				12pⵁ	PL	X168	A
103#	MPS3704M	500m	100M§Δ	3.3m	§A		50	30	5.0	600m	100nØ	2.0Ø	50mØ	100 †Δ#				12pⵁ	PL	X169	A
104#	MPS3705K	500m	100M§Δ	3.3m	§A		50	30	5.0	600m	100nØ	2.0Ø	50mØ	50 †Δ#				12pⵁ	PL	X167	A
105#	MPS3705L	500m	100M§Δ	3.3m	§A		50	30	5.0	600m	100nØ	2.0Ø	50mØ	50 †Δ#				12pⵁ	PL	X168	A
106#	MPS3705M	500m	100M§Δ	3.3m	§A		50	30	5.0	600m	100nØ	2.0Ø	50mØ	50 †Δ#				12pⵁ	PL	X169	A
107#	MPS3706K	500m	100M§Δ	3.3m	§A		40	20	5.0	600m	100nØ	2.0Ø	50mØ	30 †Δ#				12pⵁ	PL	X167	A
108#	MPS3706L	500m	100M§Δ	3.3m	§A		40	20	5.0	600m	100nØ	2.0Ø	50mØ	30 †Δ#				12pⵁ	PL	X168	A
109#	MPS3706M	500m	100M§Δ	3.3m	§A		40	20	5.0	600m	100nØ	2.0Ø	50mØ	30 †Δ#				12pⵁ	PL	X169	A
110	TP3638	500m	100M§Δ		$J		25	25	4.0		35uØ	1.0Ø	50mØ	30 †Δ				20p$ⵁ	PE	R203a	A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	BCW97KB	540m	135M§Δ	4.3m	§J	70	60	5.0	400m	30nØ	2 0Ø	2.0mØ	100 †Δ#				5.0p	PEΔ	R203a	
2	MD7004	550m	675M§	3.1m	§J	30	13 *	4.0	200m	100nØ	2.0Ø	10mØ	100 †#				2.5p	AN	TO99	PA
3	MD4260*	550m	1.0G§Δ	3.1m	§J	12	12	4.0	50m	10nØ	1.0Ø	10mØ	30 †Δ				2.5pØ	AN	R131b	PA
4	MD4261*	550m	1.0G§Δ	3 1m	§J	12	12	4.0	50m	10nØ	1.0Ø	10mØ	30 †Δ				2.5pØ	AN	R131b	PA
5	MD2904*	575m	320M§	3.2m	§J	60	40	5.0	600m	20nØ	10Ø	1.0mØ	25 †Δ#				8.0pØ	AN	R131b	PA
6	MD2904A*	575m	320M§	3.2m	§J	60	60	5.0	600m	20nØ	10Ø	1.0mØ	40 †Δ#				8.0pØ	AN	R131b	PA
7	MD2905*	575m	320M§	3.2m	§J	60	40	5.0	600m	20nØ	10Ø	1.0mØ	50 †Δ#				8.0pØ	AN	R131b	PA
8	MD2905A*	575m	320M§	3.2m	§J	60	60	5.0	600m	20nØ	10Ø	1.0mØ	100 †Δ#				8.0pØ	AN	R131b	PA
9	MD3250*	575m	600M§	3.2m	§J	50	40 *	5.0	50m	10nØ	5.0Ø	10uØ	75 †#				2.5p	AN	TO99	PA
10	MD3250A*	575m	600M§	3.2m	§J	50	40 *	5.0	50m	10nØ	5.0Ø	10uØ	75 †#				2.5p	AN*	TO99	PA
11	MD3251	575m	600M§	3.2m	§J	50	40 *	5.0	50m	10nØ	5.0Ø	10uØ	100 †#				2.5p	AN	TO99	PA
12	MD3251A*	575m	600M§	3.2m	§J	50	40 *	5.0	50m	10nØ	5.0Ø	10uØ	100 †#				2.5p	AN*	TO99	PA
13▼#	2SB643	600m		5.4m	†J	30	25	7.0		100nØ	10Ø	10mØ	60 †Δ				6.0p		B37	D
14▼#	2SB644	600m		5.4m	†J	60	50	7 0		100nØ	10Ø	10mØ	60 †Δ				6.0p		B37	D
15	MM4000	600m		3.4m	§J	100	100 *	4.0	100m	1.0uØ	10Ø	10mØ	20 †#Δ				6pØ	EA	TO39	AØ
16	PN4248	600m		4.8m	§J	40	40	5.0	50m	10n	5.0Ø	100uØ	50 †Δ				6.0pØ	PL	TO92	A
17	PN4249	600m		4.8m	§J	60	60	5.0	50m	10nØ	5.0Ø	100uØ	100 †Δ	40uØ	17kØ	10 Ø	6.0pØ	PL	TO92	A
18	PN4250	600m		4.8m	§J	40	40	5.0	50m	10n	5.0Ø	100uØ	250 †Δ	50uØ	20kØ	10 Ø	6.0pØ	PL	TO92	A
19	PN4250A	600m		4.8m	§J	60	60	5.0	50m	10nØ	5.0Ø	100uØ	250 †Δ				6 0pØ	PL	TO92	A
20#	BCY30A	600m	7.0M§	4.8m	§J	64	64	45	50m	50nØ	6.0Ø	1.0mØ	25	17	1.1	3.0		Ø	TO5	AØ
21#	BCY31A	600m	7.0M§	4.8m	§J	64	64	45	50m	50nØ	6.0Ø	1.0mØ	35	25	1.4	6.0		Ø	TO5	AØ
22#	BCY32A	600m	7.0M§	4.8m	§J	64	64	32	50m	50nØ	6.0Ø	1.0mØ	55	30	1.7	5.0		Ø	TO5	AØ
23#	BCY33A	600m	7.0M§	4.8m	§J	32	32	32	50m	50nØ	6.0Ø	1.0mØ	25	17	1.1	3.0		Ø	TO5	AØ
24#	BCY34A	600m	7.0M§	4.8m	§J	32	32	32	50m	50nØ	6.0Ø	1 0mØ	35	25	1.4	6.0		Ø	TO5	AØ
25▼	HSE193-RT	600m	10M§Δ	4.8m	§J	200	200	5.0		50u	10Ø	20mØ	30 †Δ						TO5	A
26▼	HSE194-RT	600m	10M§Δ	4.8m	§J	350	250	4.0		50uØ	10Ø	20mØ	30 †Δ						TO5	A
27	2N3305	600m	20M§Δ	4.0m	§S	50	40	6.0		50nØ	5.0Ø	1.0mØ	40 Δ	50uØ	3.0kØ	6.0 Ø	30pØ	Ø	TO5	AØ
28	2N3306	600m	20M§Δ	4.0m	§S	50	40	6.0		50nØ	5.0Ø	1 0mØ	70 Δ	80uØ	6.0kØ	10 Ø	30pØ	Ø	TO5	AØ
29	2N3857	600m	20M§Δ	3.4m	§S	45	45	30	500m	5.0nØ	6.0	1.0mØ	45 Δ	1.5uØb	35 Ø	20 Ø	10pØ	Ø	TO5	A
30	2N4412	600m	20M§Δ	3.4m	§S	40	30	5.0	600m	10nØ	5.0Ø	1.0mØ	120 Δ	500nb	32 Ø		10pØ	Ø	TO5	AØ
31	2N4412A	600m	20M§Δ	3 4m	§S	60	60	5.0	600m	10nØ	5 0Ø	1.0mØ	120 Δ	500nb	32 Ø		10pØ	Ø	TO5	Ø
32	2N4414	600m	20M§Δ	3.4m	§S	40	30	5.0	600m	10nØ	5.0Ø	1.0mØ	100 Δ	500nb	32 Ø		10pØ	Ø	TO5	AØ
33	2N4414A	600m	20M§Δ	3.4m	§S	60	60	5.0	600m	10nØ	5.0Ø	1.0mØ	100 Δ	500nb	32 Ø		10pØ	Ø	TO5	AØ
34	2N1991	600m	40M§Δ	4 8m	§J	30	20	5 0		5.0uØ	10Ø	150mØ	15 †#Δ				45pØ		TO5	AØ
35	2N1131	600m	50M§Δ	4.0m	§J	50	35	5.0	600m	100u	5.0Ø	1.0mØ	15 Δ	1.0uØb	35 Ø	8 0 Ø	45pØ	D	TO39	AØ
36	JAN2N1131	600m	50M§Δ	4.0m	§J	50	40	5.0	600m	1 0uØ	5.0Ø	1.0mØ	15 Δ	1.0uØb	35 Ø	8.0 Ø	45pØ	Δ	TO5	Ø
37	2N1131A†	600m	50M§Δ	4.0m	§J	60	40	5.0	600m	500nØ	5 0Ø	1.0mØ	15 Δ	1.0uØb	35 Ø	8.0 Ø	30pØ		TO39	AØ
38	2N1132	600m	60M§Δ	4.0m	§J	50	35	5.0	600m	100u	5.0Ø	1.0mØ	25 Δ	1.0uØb	35 Ø	8.0 Ø	45pØ	D	TO39	AØ
39	JAN2N1132	600m	60M§Δ	4.0m	§J	50	40	5.0	600m	1.0uØ	5.0Ø	1.0mØ	30 Δ	1.0uØb	35 Ø	8.0 Ø	45pØ	Δ	TO5	Ø
40	2N1132A†	600m	60M§Δ	4.0m	§J	60	40	5.0	600m	500nØ	5.0Ø	1.0mØ	25 Δ	1.0uØb	35 Ø	8.0 Ø	30pØ		TO39	AØ
41	2N1132B†	600m	60M§Δ	4.0m	§J	70	45	6.0	600m	10nØ	5.0Ø	1 0mØ	25 Δ	1.0uØb	35 Ø	8.0 Ø	30pØ		TO39	AØ
42	2N2303	600m	60M§Δ	4.0m	§J	50	35	5.0	500m	1.0uØ	5.0Ø	1.0mØ	75 Δ	1.0uØb	35 Ø	8.0 Ø	45pØ		TO5	AØ
43#	2SA497	600m	70.M§	5 0m	§J	80	80	5.0	800m	1 0u	2.0Ø	200mØ	70 †				40pØ	PE	TO39	A
44#	2SA879	600m	80M§	5.4m	†J	250	200	5.0	70m	10u	10Ø	5 0mØ	30 Δ†				10pØ	PE	TO126	B
45▼#	2MA509	600m	100M§	4.8m	§J	35	30	5.0	500m	100nØ	2.0Ø	50mØ	100 †				22p	PE	R67a	B
46	2N4928	600m	100M§Δ	3.4m	§S	100	100	4 0	100m	.50uØ	10Ø	1 0mØ	20 †Δ				6p$Ø		TO5	AØ
47#	2SA661	600m	100M§		§J	70	50	5 0	200m	100nØ	1.0Ø	50mØ	100 †				20pØ	PE	X161	B
48#	BC294	600m	100M§Δ	3.4m	§J	60	60	5.0	600m	500n	10Ø	150mØ	100 Δ					PEØ	TO5	AØ
49#	BFX29	600m	100M§Δ	3.4m	§J	60	60	5.0	600m#	500n	10Ø	10mØ	155	104u	600	1.5	6 0p$	PE	TO5	AØ
50#	BFX87†	600m	100M§Δ	3.4m	§J	50	50	4.0	600m#	.05uØ	10Ø	10mØ	40 †Δ				6.0p$	PE	TO5	AØ
51#	BFX88†	600m	100M§Δ	3.4m	§J	40	40	4 0	600m#	.05uØ	10Ø	10mØ	40 †Δ				6.0p$	PE	TO5	AØ
52▼	HSE153-RT	600m	100M§Δ	4.8m	§J	80	80	4.0		100nØ	10Ø	100mØ	30 †Δ						TO5	A
53	PN3638	600m	100M§Δ	4.8m	§J	25	25	4 0	500m	35n§	1.0Ø	50mØ	30 †Δ				20pØ	PL	TO92	A
54	PN4354	600m	100M§Δ	4.8m	§J	60	60	5.0	500m	100nØ	10Ø	100uØ	25 †Δ				30pØ	PL	TO92	A
55	PN4355	600m	100M§Δ	4.8m	§J	60	60	5.0	500m	50nØ	10Ø	100uØ	60 †Δ				30pØ	PL	TO92	A
56	PN4356	600m	100M§Δ	4.8m	§J	80	80	5.0	500m	50nØ	10Ø	100uØ	25 †Δ				30pØ	PL	TO92	A
57	TQ59†	600m	100M§Δ	3.4m	§J	40	30	5.0	600m	20nØ	5.0Ø	1.0mØ	30 Δ	500nØb	35 Ø		10pØ	PE	TO5	A
58	TQ61†	600m	100M§Δ	3.4m	§J	40	30	5.0	600m	20nØ	5.0Ø	1.0mØ	30 Δ	500nØb	35 Ø		10pØ	PE	TO5	A
59	TQ63†	600m	100M§Δ	3.4m	§J	20	20	5.0	600m	100nØ	5.0Ø	1 0mØ	20 Δ	500nØb	35 Ø		10pØ	PE	TO5	A
60#	2SA950	600m	120M§		§J	30	25	5.0	800m	100nØ	1.0Ø	100mØ	320 †Ø				19p	E	TO92	
61#	2SA509	600m	140M§		♦	35	30	5.0	50m	100n	2.0Ø	50mØ	100 †				22p	EP	R67a	
62	2N3081	600m	150M§Δ	3.4m	§J	70	50	6.0	600m	.01uØ	10Ø	150mØ	30 †Δ				13pØ	PE	TO5	AØ
63	2N3495†	600m	150M§Δ	3.4m	§S	120	120	4.5	100m	.10uØ	10Ø	10mØ	40 Δ	300uØ	1.2kØ	2 Ø	6pØ		TO5	AØ
64	2N3495S†	600m	150M§Δ	3.4m	§S	120	120	4.5	100m	100nØ	10Ø	10mØ	40 Δ	300uØ	1.2kØ	2.0 Ø	6.0pØ		TO5	AØ
65	HEP51-RT	600m♦	150M§		§J	30	25 $	4.0	600m$	1 0u$	20		80 †						TO5	A
66▼	HSE140-RT	600m	150M§Δ	4.8m	§J	30	25	4.0		1.0uØ	10Ø	150mØ	50 †Δ						TO5	A
67▼	HSE224-RT	600m	150M§Δ	4.8m	§J	60	60	5.0		200nØ	10Ø	150mØ	60 †Δ						TO18	A
68	PN3638A	600m	150M§Δ	4.8m	§J	25	25	4.0	500m	25n§	1.0Ø	50mØ	100 †Δ				10pØ	PL	TO92	A
69#	TS2904	600m	150M§Δ	3.4m	§J	60	30	5.0	600m	20nØ	10Ø	10mØ	35 †				12pØ	PE	TO39	AØ
70#	TS2905	600m	150M§Δ	3.4m	§J	60	30	5.0	600m	20nØ	10Ø	10mØ	75 †				12pØ	PE	TO39	AØ
71#	BFX36*	600m	160M§Ø	2.2m	§J	60	60	6.0	200m	10nØ	5.0Ø	1.0mØ	700 Ø	50uØ	20kØ	10 Ø	6.0pØ	DPEØ	TO77	
72	2N2904†	600m	200M§Δ	3.4m	§S	60	40	5.0	600m	.02uØ	10Ø	1.0mØ	25 †Δ				8pØ		TO5	AØ
73	JAN2N2904†	600m	200M§Δ	3.4m	§S	60	40	5.0	600m	20nØ	10Ø	1.0mØ	25 Δ				8.0pØ		TO5	AØ
74	2N2904A†	600m	200M§Δ	3.4m	§S	60	60	5.0	600m	.01uØ	10Ø	1.0mØ	40 †Δ				8pØ		TO5	AØ
75	JAN2N2904A†	600m	200M§Δ	3.4m	§S	60	60	5.0	600m	10nØ	10Ø	1.0mØ	40 Δ				8.0pØ		TO5	AØ
76	2N2905†	600m	200M§Δ	3.4m	§S	60	40	5.0	600m	.02uØ	10Ø	1.0mØ	50 †Δ				8pØ		TO5	AØ
77	JAN2N2905†	600m	200M§Δ	3.4m	§S	60	40	5.0	600m	20nØ	10Ø	1 0mØ	50 Δ				8.0pØ		TO5	AØ
78	2N2905A†	600m	200M§Δ	3.4m	§S	60	60	5.0	600m	.01uØ	10Ø	1.0mØ	100 †Δ				8pØ		TO5	AØ
79	JAN2N2905A†	600m	200M§Δ	3.4m	§S	60	60	5.0	600m	10nØ	10Ø	1.0mØ	100 Δ				8.0pØ		TO5	AØ
80	2N3133†	600m	200M§Δ	3.4m	§S	50	35	4.0	600m	.05uØ	10Ø	150mØ	40 †#Δ				10pØ		TO5	AØ
81	2N3134†	600m	200M§Δ	3.4m	§S	50	35	4.0	600m	.05uØ	10Ø	150mØ	100 †#Δ				10pØ		TO5	AØ
82	2N3494†	600m	200M§Δ	3.4m	§S	80	80	4.5	100m	.10uØ	10Ø	10mØ	40 Δ	300uØ	1.2kØ	2 Ø	7pØ		TO5	AØ
83	2N3671†	600m	200M§Δ	3 4m	§S	60	50	5.0	600m	10nØ	10Ø	.10mØ	55 †Δ				9pØ		TO5	AØ
84#	2SA730	600m	200M§	6.0m	♦J	30	25	5.0	500m	100nØ	10Ø	500mØ	90 †				6.0p	PE	R209	B
85#	2SA731	600m	200M§	6.0m	♦J	60	50	5.0	500m	100nØ	10Ø	500mØ	90 †				6.0p	PE	R209	B
86▼#	2SB621	600m	200M§	5.4m	†J	30	25	5.0	1.5	100nØ	10Ø	500mØ	60 †Δ				20p		TO92	B
87	PN2906	600m	200M§	4.8m	§J	60	40	5.0	600m	20nØ	10Ø	1.0mØ	25 †Δ				8.0pØ	PL	TO92	A
88	PN2906A	600m	200M§	4.8m	§J	60	60	5.0	600m	10nØ	10Ø	1.0mØ	40 †Δ				8.0pØ	PL	TO92	A
89	PN2907	600m	200M§	4.8m	§J	60	60	5.0	600m	20nØ	10Ø	1.0mØ	50 †Δ				8.0pØ	PL	TO92	A
90	PN2907A	600m	200M§	4.8m	§J	60	60	5.0	600m	10nØ	10Ø	1.0mØ	100 †Δ				8.0pØ	PL	TO92	A
91	PN3644	600m	200M§Δ	4.8m	§J	45	45	5.0	500m	35n§	10Ø	1 0mØ	80 †Δ				8.0pØ	PL	TO92	A
92	PN3645	600m	200M§Δ	4.8m	§J	60	60	5.0	500m	35n§	10Ø	1.0mØ	80 †Δ				8 0pØ	PL	TO92	A
93#	TM1614	600m	200M§Δ	2.2m	§A	60	50 §	5.0	600m	.05uØ	10Ø	150mØ	40 †#				8pØ	PE	TO5	
94#	TM1712	600m	200M§Δ	2.2m	§A	60	40 §	5.0	600m	.05uØ	10Ø	150mØ	100 †#				8pØ	PE	TO5	
95#	MA0401	600m	250M§	4.8m	§J	60	50	5.0		50n§	10Ø	150mØ	40 †Δ#				6.0p	PE	TO5	
96#	MA0402	600m	250M§	4.8m	§J	60	45	5.0		50n§	10Ø	150mØ	100 †Δ#				6.0p	PE	TO5	
97	PN5141	600m	300M§Δ	4.8m	§J	6 0	6.0	4.0	100m		2.0Ø	30mØ	30 †Δ				7.0pØ	PL	TO92	A
98	MD982	600m	320M§	3.4m	§J	60	50	5.0	600m	20nØ	10Ø	150mØ	60 †				5 8p	AN	TO99	PA
99	MD7001*	600m	320M§	3.4m	§J	50	30	5.0	600m	100nØ	10Ø	1.0mØ	50 †#				5.8p	AN	TO99	PA
100	PN4423	600m	400M§Δ	4.8m	§J	12	12	4.0	200m	80n§	.50Ø	30mØ	40 †Δ				6.0p$Ø	PL	TO92	A
101	PN4916	600m	400M§Δ	4.8m	§J	30	30	5.0	100m	25n§	1.0Ø	1.0mØ	60 †Δ				4.5pØ	PL	TO92	A
102	PN4917	600m	450M§Δ	4.8m	§J	30	30	5 0	100m	25n§	1.0Ø	1.0mØ	150 †Δ				4.5pØ	PL	TO92	A
103	PN3639	600m	500M§Δ	4.8m	§J	6 0	6.0	4.0	80m	10n§	1.0Ø	50mØ	20 †Δ				3.5pØ	PL	TO92	A
104	PN3640	600m	500M§Δ	4.8m	§J	12	12	4.0	80m	10n§	1.0Ø	50mØ	20 †Δ				3.5pØ	PL	TO92	A
105	PN4258	600m	700M§Δ	4.8m	§J	12	12	4.5	50m	10n§	3.0Ø	10mØ	30 †Δ				3.0pØ	PL	TO92	A
106	PN4258A	600m	700M§Δ	4.8m	§J	12	12	4.5	50m	10n§	3 0Ø	10mØ	30 †Δ				3.0pØ	PL	TO92	A
107	PN4313	600m	700M§Δ	4.8m	§J	12	12	4.5	100m	50n§	.50Ø	30mØ	30 †Δ				4.5pØ	PL	TO92	A
108	PN5910	600m	700M§Δ	4.8m	§J	20	20	4.5	50m	10n§	.50Ø	1.0mØ	15 †Δ				3.0p$Ø	PL	TO92	A
109#	BCW92	610m	135M§Δ	4.3m	§J	50	40	5 0	800m	30nØ	2.0Ø	150mØ	100 †Δ				15pØ	PE	R203a	A
110	BCW92A	610m	135M§Δ	4.8m	§J	50	40	5.0	800m	30nØ	2.0Ø	2.0mØ	60 †Δ				10p	PEΔ	R203a	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #Y200 s/a TO200 Ser.	L E D	C O D E
1	BC488L5	625m	150M§	5.0m	§J	60	60	4.0	1.0	100nØ	2.0Ø	100mØ	100 †#				9.0p	AN	R207	A	
2	BC488L18	625m	150M§	5.0m	§J	60	60	4.0	1.0	100nØ	2.0Ø	100mØ	100 †#				9.0p	AN	R204e	A	
3	BC488L	625m	150M§	5.0m	§J	60	60	4.0	1.0	100nØ	2.0Ø	100mØ	100 †#				9.0p	AN	R210a	F	
4	BC490	625m	150M§	5.0m	§J	80	80	4.0	1.0	100nØ	2.0Ø	100mØ	60 †Δ#				9.0p	AN	R210a	F	
5	BC490-5	625m	150M§	5.0m	§J	80	80	4.0	1.0	100nØ	2.0Ø	100mØ	60 †Δ#				9.0p	AN	R207	A	
6	BC490-18	625m	150M§	5.0m	§J	80	80	4.0	1.0	100nØ	2.0Ø	100mØ	60 †Δ#				9.0p	AN	R204e	A	
7	BC490A5	625m	150M§	5.0m	§J	80	80	4.0	1.0	100nØ	2.0Ø	100mØ	140 †#				9.0p	AN	R207	A	
8	BC490A18	625m	150M§	5.0m	§J	80	80	4.0	1.0	100nØ	2.0Ø	100mØ	140 †#				9.0p	AN	R204e	A	
9	BC490A	625m	150M§	5.0m	§J	80	80	4.0	1.0	100nØ	2.0Ø	100mØ	140 †#				9.0p	AN	R210a	F	
10	BC490B5	625m	150M§	5.0m	§J	80	80	4.0	1.0	100nØ	2.0Ø	100mØ	260 †#				9.0p	AN	R207	A	
11	BC490B18	625m	150M§	5.0m	§J	80	80	4.0	1.0	100nØ	2.0Ø	100mØ	260 †#				9.0p	AN	R204e	A	
12	BC490B	625m	150M§	5.0m	§J	80	80	4.0	1.0	100nØ	2.0Ø	100mØ	260 †#				9.0p	AN	R210a	F	
13	BC490L5	625m	150M§	5.0m	§J	80	80	4.0	1.0	100nØ	2.0Ø	100mØ	100 †#				9.0p	AN	R207	A	
14	BC490L18	625m	150M§	5.0m	§J	80	80	4.0	1.0	100nØ	2.0Ø	100mØ	100 †#				9.0p	AN	R204e	A	
15	BC490L	625m	150M§	5.0m	§J	80	80	4.0	1.0	100nØ	2.0Ø	100mØ	100 †#				9.0p	AN	R210a	F	
16▼	MPS4889	625m	160M§☑	5.0m	§J	150	150 ☑	6.0	100m	10nØ	10Ø	1.0mØ	8.0 ☑	25u☑	12k☑	5.0 ☑	8.0p☑	Ø	TO92	A	
17▼#	BC556A☑	625m	190M§	5.0m	§J	80	65	5 0	100m	15nØ	5.0Ø	2.0mØ	180 †	25u	2.5k	3.5	8.5p$	E	R189b	A	
18▼#	BC556B☑	625m	190M§	5.0m	§J	80	65	5.0	100m	15nØ	5.0Ø	2.0mØ	290 †	40u	4.5k	6.0	8.5p$	E	R189b	A	
19▼#	BC557A☑	625m	190M§	5.0m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	180 †	25u	2.5k	3.5	8.5p$	E	R189b	A	
20▼#	BC557B☑	625m	190M§	5.0m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	290 †	40u	4.5k	6.0	8.5p$	E	R189b	A	
21▼#	BC558A☑	625m	190M§	5.0m	§J	30	30	5.0	100m	15nØ	5.0Ø	2.0mØ	180 †	25u	2.5k	3.5	8.5p$	E	R189b	A	
22▼#	BC558B☑	625m	190M§	5.0m	§J	30	30	5.0	100m	15nØ	5.0Ø	2.0mØ	290 †	40u	4.5k	6.0	8.5p$	E	R189b	A	
23▼#	BC559A☑	625m	190M§	5.0m	§J	30	30	5.0	100m	15nØ	5.0Ø	2.0mØ	180 †	25u	2.5k	3.5	8.5p$	E	R189b	A	
24▼#	BC559B☑	625m	190M§	5.0m	§J	30	30	5.0	100m	15nØ	5.0Ø	2.0mØ	290 †	40u	4.5k	6.0	8.5p$	E	R189b	A	
25▼#	BC560A☑	625m	190M§	5.0m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	180 †	25u	2.5k	3.5	8 5p$	E	R189b	A	
26▼#	BC560B☑	625m	190M§	5.0m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	290 †	40u	4.5k	6.0	8.5p$	E	R189b	A	
27♦#	JE9015A	625m	190M§	5.0m	§J	50	45	5.0	100m	50n	5.0Ø	1.0mØ	60 †Δ*	35u	8.5k	100	8.0p		TO92	A	
28♦#	JE9015B	625m	190M§	5.0m	§J	50	45	5.0	100m	50n	5.0Ø	1.0mØ	100 †Δ*	35u	8 5k	100	8.0p		TO92	A	
29♦#	JE9015C	625m	190M§	5.0m	§J	50	45	5.0	100m	50n	5.0Ø	1 0mØ	200 †Δ*	35u	8.5k	100	8.0p		TO92	A	
30#	2SA890	625m	200M§	5.7m	†J	30	25	5.0	1.0 #	100n		10Ø	150mØ	160 †				PE	TO92	A	
31#	2SA891	625m	200M§	5.7m	†J	60	50	5.0	1.0 #	100n		10Ø	150mØ	160 †				PE	TO92	A	
32	A5T2907†	625m	200M§Δ	5.0m	§S	60	40	5.0	600m	20nØ		10Ø	100uØ	35 †Δ			8.0p☑	†	R203	A	
33	A5T2907A†	625m	200M§Δ	5.0m	§S	60	60	5.0	600m	10nØ		10Ø	100uØ	75 †Δ			8.0p☑	†	R203	A	
34	A5T3496†	625m	200M§Δ	5.0m	§S	80	80	4.5	100m	100nØ		10Ø	10mØ	40 Δ	300u☑	1.2k☑	2 0 ☑	7.0p☑	PE	R203	A	
35	A5T3504†	625m	200M§Δ	5.0m	§S	45	45	5.0	600m	10nØ		10Ø	10mØ	135 Δ	800u☑	2.3k☑	15 ☑	8.0p☑	PE	R203	A	
36	A5T3505†	625m	200M§Δ	5.0m	§S	60	60	5.0	600m	10nØ		10Ø	10mØ	135 Δ	800u☑	2.3k☑	15 ☑	8.0p☑	PE	R203	A	
37♦	A5T3644†	625m	200M§Δ	5.0m	§S	45	45	5.0	600m	35n§		10Ø	10mØ	100 Δ	300u☑	1.8k☑	3.0 ☑	8.0p☑	†	R203e	A	
38♦	A5T3645†	625m	200M§Δ	5.0m	§S	60	60	5.0	600m	35n§		10Ø	10mØ	100 Δ	300u☑	1.8k☑	3.0 ☑	8.0p☑	†	R203e	A	
39	A5T4403†	625m	200M§Δ	5.0m	§S	40	40	5.0	600m	100nØ		10Ø	1 0mØ	60 Δ	100u☑	15k☑	8.0 ☑	8.5p☑	PE	R203	A	
40▼	A8T3644†	625m	200M§Δ	5.0m	§S	45	45 $	5.0	600m	35n§		10Ø	10mØ	100 Δ	300u☑	1.8k☑	3.0 ☑	8.0p☑	†	R210a	A	
41▼	A8T3645†	625m	200M§Δ	5.0m	§S	60	60 $	5.0	600m	35n§		10Ø	10mØ	100 Δ	300u☑	1.8k☑	3.0 ☑	8.0p☑	†	R210a	A	
42	MPS2907†	625m	200M§Δ	5.0m	§J	60	40	5.0	600m	20nØ		10Ø	100uØ	35 †Δ				8.0p☑	AN	R211	A	
43	MPS2907A†	625m	200M§Δ	5.0m	§J	60	60	5.0	600m	10nØ		10Ø	100uØ	75 †Δ				8.0p☑	AN	R211	A	
44	MPS3905†	625m	200M§Δ	5.0m	§J	40	40	5.0	200m	50n#	1.0Ø		10mØ	50 †Δ	40u☑	8.0k☑	5.0 ☑	4.5p☑	ANØ	TO92	A	
45	PN4142	625m	200M§	5.0m		60	40	5.0	200m	50n#		10Ø	150mØ	120 †☑				8.0p☑		TO92	A	
46	PN4143	625m	200M§	5.0m	§S	60	40	5.0	200m	50n#		10Ø	150mØ	300 †☑				8.0p☑		TO92	A	
47	TP3644	625m	200M§		§J	45	45	5.0		35n	1.0Ø		50mØ	80 †Δ				8.0p$☑	PE	TO92	A	
48	TP3645	625m	200M§		§J	60	60	5.0		35n	1.0Ø		50mØ	80 †Δ				8.0p$☑	PE	TO92	A	
49	MPS3906†	625m	250M§Δ	5.0m	§J	40	40	5.0	200m	50n#	1.0Ø		10mØ	100 †Δ	60u☑	12k☑	10 ☑	4.5p☑	ANØ	TO92	A	
50	BC327-5	625m	260M	5.0m	§J	50	45	5.0	500m	100nØ	1.0Ø		50mØ	100 †Δ				5.0p	AN	R207	A	
51	BC327-18	625m	260M	5.0m	§J	50	45	5.0	500m	100nØ	1.0Ø		50mØ	100 †Δ				5.0p	AN	R204e	A	
52	BC328-5	625m	260M	5.0m	§J	30	25	5.0	500m	100nØ	1.0Ø		50mØ	100 †Δ				5.0p	AN	R207	A	
53	BC328-18	625m	260M	5 0m	§J	30	25	5.0	500m	100nØ	1.0Ø		50mØ	100 †Δ				5.0p	AN	R204e	A	
54	MPS6533M	625m	260M	5.0m	§J	40	40	4.0	600m	50n	1.0Ø		100mØ	40 †Δ				8.0p☑	PE	TO92	A	
55	MPS6534M	625m	260M	5.0m	§J	40	40	4.0	600m	50n	1.0Ø		100mØ	90 †Δ				8.0p☑	PE	TO92	A	
56	MPS6535M	625m	260M	5.0m	§J	30	30	4.0	600m	100n	1.0Ø		100mØ	30 †Δ				8.0p☑	PE	TO92	A	
57▼	MPS5139†	625m	300M§Δ	5.0m	§J	20	20 ☑*	5.0	100m	50n§Ø	20Ø		10mØ	3.0 Δ				5.0p$☑		TO92	A	
58	PN5139	625m	300M§	5.0m	§S	20	20	5.0	100m	50n#	10Ø		1.0mØ	40 †Δ				5.0p$		TO92	A	
59	BF709	625m	350M§Δ	5.0m	§J	30	30	3.0	50m	100nØ	10Ø		2.5mØ	20 †Δ					ANØ	R210b	A	
60	PN4121	625m	400M§	5.0m	§S	40	40	5.0	100m	25n§	10Ø		1.0mØ	50 †Δ	24u☑	8.0	3.0	4.5p$		TO92	A	
61	PN4122	625m	400M§	5.0m	§S	40	40	5.0	100m	25n§	10Ø		1.0mØ	150 †Δ	40u☑	12	4.0	4.5p$		TO92	A	
62	PN5140	625m	400M§	5.0m	§S	5.0	5.0	4.0	50m	50n#	1.0Ø		10mØ	140 †#☑				5.0p$		TO92	A	
63	BF739	625m	600M§Δ	500m	§J	30	30	3.0	50m	100nØ	10Ø		2.5mØ	20 †Δ					ANØ	R190	A	
64	2N5771	625m	850M§Δ	5.0m	§J	15	15	4.5	50m	10nØ	.50Ø		1.0mØ	35 †Δ				3.0p$☑		TO92	A	
65	MPSH83	625m	950M§	4.5m	§J	30	30	3.0		10nØ	10Ø		2.5mØ	20 †Δ				300ft☑	ANØ	R184	A	
66#	2SA119	650m	200M§	4.3m	§J	40			300m	100nØ	10Ø		10m	60 †		50		4.5p	PEΔ	TO39	A	
67#	2SA120	650m	200M§	4.3m	§J	25		4.0	300m	1.0uØ	10Ø		10m	60		50		4.5p	PE	TO39	CØ	
68#	2SA120A	650m	200M§	4.3m	§J	40		4.0	300m	1.0uØ	10Ø		10m	60		50		4.5p	PE	TO39	CØ	
69#	2SA523	650m	200M§		§J	40	20	5.0	300m	100nØ	10Ø		10mØ	20 †Δ		100 ☑		7.0p	PE	TO39	A	
70#	2SA523A	650m	200M§		§J	60	40	5.0	300m	100nØ	10Ø		10mØ	20 †Δ		100 ☑		7.0p	PE	TO39	A	
71#	2SA732	650m	200M§	4.3m	§J	40	30	4.0	300m	100nØ	10Ø		10m	60		50		4.5p	PEΔ	TO39	A	
72▼#	BC327☑	675m	100M§	5.4m	§J		45	5.0	800m	100nØ	1.0Ø		100mØ	200 †				24p$	E	R189b	A	
73▼#	BC327-16☑	675m	100M§	5.4m	§J		45	5.0	800m	100nØ	1.0Ø		100mØ	160 †				24p$	E	R189b	A	
74▼#	BC327-25☑	675m	100M§	5.4m	§J		45	5.0	800m	100nØ	1.0Ø		100mØ	250 †				24p$	E	R189b	A	
75▼#	BC328☑	675m	100M§	5.4m	§J		25	5.0	800m	100nØ	1.0Ø		100mØ	200 †				24p$	E	R189b	A	
76▼#	BC328-16☑	675m	100M§	5.4m	§J		25	5.0	800m	100nØ	1.0Ø		100mØ	160 †				24p$	E	R189b	A	
77▼#	BC328-25☑	675m	100M§	5.4m	§J		25	5.0	800m	100nØ	1.0Ø		100mØ	250 †				24p$	E	R189b	A	
78#	2SA606S	700m		5.6m	§J	100	80	5.0	700m	3.0uØ	5.0Ø		200mØ	100 †#					E	TO39	AØ	
79	HS5811	700m		6.3m	†J	35	25	5.0	750m	100nØ	2.0Ø		2.0mØ	60 †Δ				15p$☑	PE	R198	A	
80	HS5813	700m		6.3m	†J	35	25	5.0	750m	100nØ	2.0Ø		2.0mØ	150 †Δ				15p$☑	PE	R198	A	
81	HS5815	700m		6.3m	†J	50	40	5.0	750m	100nØ	2.0Ø		2.0mØ	60 †Δ				15p$☑	PE	R198	A	
82	HS5817	700m		6.3m	†J	50	40	5.0	750m	100nØ	2.0Ø		2.0mØ	100 †Δ				15p$☑	PE	R198	A	
83	HS5819	700m		6.3m	†J	50	40	5.0	750m	100nØ	2.0Ø		2.0mØ	150 †Δ				15p$☑	PE	R198	A	
84	HS5821	700m		6.3m	†J	70	60	5.0	750m	100nØ	2.0Ø		2.0mØ	60 †Δ				15p$☑	PE	R198	A	
85	HS5823	700m		6.3m	†J	70	60	5.0	750m	100nØ	2.0Ø		2.0mØ	100 †Δ				15p$☑	PE	R198	A	
86	2N3931	700m	40M§Δ	4.0m	§J	180	180	6.0	100m	10nØ	10Ø		1.0mØ	100 Δ				7.0p☑	Ø	TO39	Ø	
87	2N4358	700m	40M§Δ	4.0m	§J	240	240	6.0	100m	.02uØ	10Ø		1.0mØ	100 Δ	25u☑	12k☑		7p☑	Ø	TO39	AØ	
88#	BC139	700m	40M§Δ	4.0m	§J	40	40	5.0		.02uØ	1.0Ø		300mØ	40 †				10p☑	DPE	TO5		
89#	2SA606	700m	50M§Δ	5.6m	§J	100	80	5.0	700m	3.0uØ	5.0Ø		200mØ	80 †*#				50p☑	E	TO39	AØ	
90	2N3224	700m	60M§Δ	4.6m	§S	100	100	6.0		100nØ	5.0Ø		1.0mØ	20 Δ				20p☑		TO5	AØ	
91#	BFW44	700m	60.M§	4.0m	§J	150	150	6.0		.01uØ	10Ø		10mØ	40 †#Δ				7p☑	PE	TO39	AØ	
92#	BFX91	700m	60.M§	4.0m	§J	180	180	6.0		.01uØ	10Ø		1.0mØ	170 †#				5.0p	PE	TO39	AØ	
93	2N3225	700m	80M§Δ	4.6m	§S	100	100	6.0		100nØ	5.0Ø		1.0mØ	40 Δ				20p☑		TO5	AØ	
94	D29E4J1	700mØ	80M§Δ	5.6mØ	§J	50	40	5.0	750m	100n§	2.0Ø		2.0mØ	60 †Δ				15p$☑	PE†	R198	B	
95	D29E9J1	700m	80M§Δ	5.6m	§J	70	60	5.0	750m	100n§	2.0Ø		2.0mØ	60 †Δ				15p$☑	PE	R198	B	
96#	V765	700m	80M§	4.5m	§	120	120	5.0	500m	100n	10Ø		25mØ	140 †				3.0p	PE	TO39	A	
97#	2SA625	700m	100M§	4.6m	§J	100	70	6.0	500m	1 0uØ	6.0Ø		1.0m	150		20		18p	PEΔ	TO39	A	
98#	2SA809	700m	100M§	4.6m	§J	150	120	5.0	50m	1.0uØ	5.0Ø		10mØ	150 †				3.0p	PEΔ	R214	AØ	
99#	2SA810	700m	100M§	4.6m	§J	150	150	5.0	50m	1.0uØ	5.0Ø		10mØ	150 †				3.0p	PEΔ	R214	AØ	
100#	BC143	700m	100M§Δ	4.0m	§J	60	60	5 0		05uØ	2.0Ø		200mØ	20 †Δ				20p☑	PE	TO5		
101	D29E1J1	700m	100M§Δ	5.6m	§J	35	25	5.0	750m	100n§	2.0Ø		2.0mØ	60 †Δ				15p$☑	PE	R198	B	
102	D29E5J1	700mØ	120M§Δ	5.6mØ	§J	50	40	5.0	750m	100n§	2.0Ø		2.0mØ	100 †Δ				15p$☑	PE†	R198	B	
103	D29E10J1	700m	120M§Δ	5.6m	§J	70	60	5.0	750m	100n§	2.0Ø		2.0mØ	100 †Δ				15p$☑	PE	R198	B	
104#	BCW96K	700m	135M§Δ	5.6m	§J	50	40	5.0	400m	30nØ	2.0Ø		50mØ	100 †Δ				10p☑	PE	R198	A	
105#	BCW97K	700m	135M§Δ	5.6m	§J	70	60	5.0	400m	30nØ	2.0Ø		50mØ	100 †Δ				10p☑	PE	R198	A	
106	D29E2J1	700m	135M§Δ	5.6m	§J	35	25	5.0	750m	100n§	2.0Ø		2.0mØ	150 Δ				15p$☑	PE	R198	B	
107	D29E6J1	700mØ	135M§Δ	5.6mØ	§J	50	40	5.0	750m	100n§	2.0Ø		2.0mØ	150 †Δ				15p$☑	PE†	R198	B	
108	D29E7J1	700mØ	150M§Δ	5.6mØ	§J	50	40	5.0	750m	100n§	2.0Ø		2.0mØ	250 †Δ				15p$☑	PE†	R198	B	
109#	V410A	700m	170M§	4.0m	§J	35	35	4.0		.10uØ	1.0Ø		50mØ	40 †#Δ				20p	PE	TO39	AØ	
110	2N3502†	700m	200M§Δ	4.0m	§J	45	45	5.0	600m	.01u§	10Ø			35 Δ	800u☑	23k☑	15 ☑	8p☑	Ø	TO5	AØ	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1#	BFR79†	800m	150M§	6.4m	$S	90	80	5 0	1 0	100nØ	10	1.0	20 †Δ#				6.5p	PE	TO92	B
2#	BFR79TO5†	800m	150M§	6 4m	$S	90	80	5.0	1 0	100nØ	10	1.0	25 †Δ#				6.5p	PE	R188	B
3#	BFR80†	800m	150M§	6.4m	$S	70	60	5.0	1 0	100nØ	10	1.0	25 †Δ#				6.5p	PE	TO92	B
4#	BFR80TO5†	800m	150M§	6.4m	$S	70	60	5.0	1 0	100nØ	10	1 0	25 †Δ#				6.5p	PE	R188	B
5#	BFR81†	800m	150M§	6.4m	$S	60	50	5.0	1 0	100nØ	10	1.0	25 †Δ#				6.5p	PE	TO92	B
6#	BFR81TO5†	800m	150M§	6 4m	$S	60	50	5 0	1 0	100nØ	10	1.0	25 †Δ				6.5p	PE	R188	B
7	BFX38☑†	800m	150M§	4.5m	§J	55	55	5.0	1.0	50nØ	5.0Ø	100uØ	90 †				15p	AN	TO39	A
8	BFX39☑†	800m	150M§	4.5m	§J	55	55	5.0	1 0	50nØ	5.0Ø	100uØ	45 †				15p	AN	TO39	A
9	BFX40☑†	800m	150M§	4.5m	§J	75	75	5.0	1 0	50nØ	5.0Ø	100uØ	90 †				15p	AN	TO39	A
10	BFX41☑†	800m	150M§	4 5m	§J	75	75	5.0	1.0	50nØ	5.0Ø	100uØ	45 †				15p	AN	TO39	A
11#	BFX74A	800m	150M§	4.5m	§J	60	60	5.0		05uØ	10Ø	150mØ	50 †#				15p	PE	TO5	AØ
12#	BSX41	800m	150M§Δ	4.5m	§J	30	30	5.0	500m	25nØ	10Ø	10mØ	100 †Δ				10p☑	PE	TO39	AØ
13#	2SA571†	800m	200M§Δ	5.6m	§J	60	45	5 0	1.0	100n§	10Ø	50mØ	40 †Δ				25p☑	PE	TO5	
14#	BC116A	800m	200M§	8.0m	♦J	45	40	5.0		50n	10Ø	10mØ	70 †Δ				6.0p	PE	TO105	A
15#	BC287	800m	200M§	4.5m	§J	60	60	5 0	1 0	500nØ	2.0Ø	500mØ	20 †Δ				13p	DPE	TO5	
16#	BCW45	800m	200M	4.5m	§	70	55	5.0	1.0	100n	1.0Ø	200mØ	40 †				3.0p	PE	TO39	A
17▼	HSE175-RT	800m	200M§Δ	6.4m	$J	120	80	5.0		500nØ	10Ø	150mØ	150 †Δ						TO5	A
18♦#	PBM6004	800m	200M§	4.5m	§J	60	60 Ø	4.0	800m	500n	5.0Ø	50mØ	40 †Δ				20p	PE	R216g	A
19	PTC127-RT	800m	200M§Δ			90	90	5.5	500m	50nØ		10mØ	230 †						TO5	A
20#	V745	800m	240M§	8.0m	§J	50	40	5.0		100u	10Ø	50mØ	95 †				15p	PE	TO39	A
21#	BC231M	800m	250M§	5.3m	§J	40	30	5.0	400m	100nØ	5.0Ø	50mØ	100 †Δ*				6.0p	PE	TO39	AØ
22#	BF323	800m	250M§	5.3m	§J	30	25	3.0	600m		10Ø	10mØ	300 †☑*				6.0p	PE	TO39	AØ
23▼	HSE152-RT	800m	250M§Δ	6.4m	§J	40	20	3 5		1 0uØ	1 0Ø	300mØ	15 †Δ						TO5	A
24	SE8541	800m	250M§	4.5m	§J	30	30	5.0	1.0	50n	1.0Ø	150mØ	70 †#				20p$	DPL	TO39	A
25	BC313†	800m	300M§	5.3m	§J	60	40	5.0	1 0	100n§	2.0Ø	500m	20 †Δ				10p	PL	TO39	AØ
26	BC313At	800m	300M§	5.3m	§J	80	60	5.0	1 0	100n§	2.0Ø	500m	20 †Δ				10p	PL	TO39	AØ
27	2N5042	800m	500M§☑	4.5m	§J	40	40	5 0	1	.05uØ	1.0Ø	150mØ	40 †#				35p$		TO39	AØ
28♦#	BF423	830m	60M§	6.6m	$J	250	250	5.0	20m	10n	20Ø	25mØ	50 †Δ				1.6p	PE	R191	B
29#	BC303-4	850m		40mØ	§J	85	60	5.0		20nØ	10Ø	150mØ	40 Δ						TO39	
30#	BC303-5	850m		40mØ	§J	85	60	5.0		20nØ	10Ø	150mØ	70 Δ						TO39	
31#	BC303-6	850m		40mØ	§J	85	60	5.0		20nØ	10Ø	150mØ	120 Δ						TO39	
32#	BC304-4	850m		40mØ	§J	60	45	5.0		20nØ	10Ø	150mØ	40 Δ						TO39	
33#	BC304-5	850m		40mØ	§J	60	45	5.0		20nØ	10Ø	150mØ	70 Δ						TO39	
34#	BC304-6	850m		40mØ	§J	60	45	5 0		20nØ	10Ø	150mØ	120 Δ						TO39	
35#	BC461-4	850m		550mØ	§J	75	60	5 0		100nØ	4 0Ø	500mØ	40 Δ						TO5	
36#	BC461-5	850m		550mØ	§J	75	60	5.0		100nØ	4 0Ø	500mØ	60 Δ						TO5	
37#	BC461-6	850m		550mØ	§J	75	60	5.0		100nØ	4 0Ø	500mØ	115 Δ						TO5	
38#	BSS44†	870m	70M§Δ	5.0m	§J	65	60	6.0	5 0	500n§	2.0Ø	500mØ	30 †Δ#				100p$☑	PE	TO39	A
39#	BSS46†	870m	70M§Δ	5.0m	§J	85	80	6.0	5.0	500n§	2.0Ø	500mØ	25 †Δ#				150p$☑	PE	TO39	A
40#	BCW79-10†	870m	100M§Δ	5.0m	§J		32	5.0	800m		1 0Ø	100mØ	160 †☑				18p☑	PE	TO39	A
41#	BCW79-16†	870m	100M§Δ	5 0m	§J		32	5 0	800m		1 0Ø	100mØ	250 †☑				18p☑	PE	TO39	A
42#	BCW79-25†	870m	100M§Δ	5.0m	§J		32	5.0	800m		1 0Ø	100mØ	400 †☑				18p☑	PE	TO39	A
43#	BCW80-10†	870m	100M§Δ	5.0m	§J		45	5.0	800m		1.0Ø	100mØ	160 †☑				18p☑	PE	TO39	A
44#	BCW80-16†	870m	100M§Δ	5.0m	§J		45	5.0	800m		1.0Ø	100mØ	250 †☑				18p☑	PE	TO39	A
45#	BCW80-25†	870m	100M§Δ	5 0m	§J		45	5.0	800m		1.0Ø	100mØ	400 †☑				18p☑	PE	TO39	A
46#	2SB562	900mØ		7.1m	$J	25	20	5.0	1.0	1.0u	2.0Ø	500mØ	60 †Δ				38p	E	R195c	B
47▼#	2SB646	900m	140M§	7.2m	$J	120	80	5 0	50m	10uØ	5.0Ø	10mØ	60 †Δ*				4 0p	E	R195c	B
48▼#	2SB646A	900m	140M§	7.2m	$J	120	100	5.0	50m	10uØ	5.0Ø	10mØ	60 †Δ*				4.0p	E	R195c	B
49▼#	2SB647	900m	140M§	7.2m	$J	120	80	5.0	1 0	10uØ	5.0Ø	150mØ	60 †Δ*				20p	E	R195c	B
50▼#	2SB647A	900m	140M§	7.2m	$J	120	100	5.0	1 0	10uØ	5 0Ø	150mØ	60 †Δ*				20p	E	R195c	B
51#	2SA920	950m	40M§	10m	♦J	200	200	8.0	500m	200nØ	2.0Ø	100mØ	70 †Δ				40p☑	E	B2	A
52#	2SA835	950m	45M§	10m	$S	140	140	8.0	500m	200nØ	2.0Ø	100mØ	150 †				40p☑	E†	B2	A
53#	2SA897	950m	55M§	10m	♦J	60	50	6.0	2 0	200nØ	2.0Ø	100mØ	98 †Δ				30p☑	E	B2	D
54#	2SA861	950m	80M§	10m	$S	20	16	6.0	2.0	200nØ	2 0Ø	100mØ	250 †*				50p	E†	B2	D
55#	2SA706	950m	120M§	10m	$S	60	60	6.0	1.0	1 0uØ	2.0Ø	100mØ	150 †*				10p	E†	B2	A
56♦	MPSA70	1.0 Ø	125M§Δ	2.8	§J		40	4 0	100m	100n	10Ø	5.0mØ	40 †Δ*				4 0p☑	AN	TO92	A
57▼#	2SB648	1.0	140M§	8.0m	§J	180	120	5.0	50m	10uØ	5.0Ø	10mØ	60 †Δ*				4.5p	E	B7a	B
58▼#	2SB648A	1 0	140M§	8.0m	§J	180	160	5.0	50m	10uØ	5.0Ø	10mØ	60 †Δ*				4 5p	E	B7a	B
59▼#	2SB649	1.0	140M§	8.0m	§J	180	120	5.0	1 5	10uØ	5.0Ø	150mØ	60 †Δ*				27p	E	B7a	B
60▼#	2SB649A	1.0	140M§	8.0m	§J	180	160	5.0	1.5	10uØ	5.0Ø	150mØ	60 †Δ*				27p	E	B7a	B
61#	BCY67	1.0	180M§	2.2m	§J		45	5 0	50m		5.0Ø	2.0mØ	350 †	30u	4.5k	2.0	7.0p☑	PEØ	TO18	A
62#	BF416	1.2	70M§	10m	§J	250	250	5.0	200m	50nØ	15Ø	25mØ	30 †Δ				4 5p$☑	PE†	TO126	B
63#	BF418	1 2	70M§	10m	§J	300	300	5.0	200m	50nØ	15Ø	25mØ	30 †Δ				4.5p$☑	PE†	TO126	B
64#	2SB434G	1.5	3.0M§	13m	§J	60	50	5.0	3 0	10uØ	1.0Ø	500mØ	240 †☑				150p	E	Y220b	
65#	2SB435G	1 5	3 0M§	13m	§J	50	40	5.0	3.0	10uØ	1.0Ø	500mØ	240 †☑				150p	E	Y220b	
66#	2SA940	1 5	4.0M§	13m	§J	150	150	5.0	1.5	10uØ	10Ø	500mØ	75 †				55p	D	Y220b	
67	HA7516	5.0 Ø	1.0M	7 1m	§J	90		90		100n	5.0	1 0m	45	1.2ub	30	4.0	95p	A	R192	
68	HA7517	5.0 Ø	1.0M	7.1m	§J	110		110		100n	5.0	1.0m	45	1.2ub	30	4.0	95p	A	R192	
69	HA7518	5 0 Ø	1.0M	7.1m	§J	60		60		100n	5.0	1.0m	90	1 2ub	30	4 0	95p	A	R192	
70#	2SA257	5.0 Ø	80M§		§J	50	40	5.0	2 0	5 0u	2 0Ø	200mØ	50 †				40p☑	EM	TO5	Ø
71#	2SA258	5.0 Ø	80M§		§J	50	40	5.0	2.0	5 0u	2.0Ø	100mØ	70 †				40p☑	EM	TO5	Ø
72#	2SA527	5.0 Ø	80M§		§J	50	40	5.0	2.0	5.0u	2 0Ø	200mØ	50 †				40p☑	EM	TO5	Ø
73#	2SA528	5.0 Ø	80M§		§J	50	40	5 0	2 0	5 0u	2 0Ø	100mØ	70 †				40p☑	EM	TO5	Ø
74	NPC750	300	100M§	25m	$S	50	50	5.0	50m	50nØ	3 0Ø	100uØ	400 †				10p☑	E	TO92	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	IT918	120m	900M§	685u	§J	30	15	3.0	30m	10nØ	1 0Ø	3.0mØ	50 †				1.7pØ	DPEØ	S7a	AA
2#	DC5401*	120mØ	5.5G§	2.0mØ	§J	20	15	3.0	10m	300n	5 0Ø	2.0m	70 †				600f	PLØ	W14a	V
3#	DC5402*	120mØ	5.5G§	2.0mØ	§J	15	15	3.0	10m	300n	5.0Ø	2.0m	70 †				600f	PLØ	W14a	V
4#	DC5403*	120mØ	5.5G§	2.0mØ	§J	15	15	3.0	10m	300n	5.0Ø	2.0m	70 †				600f	PLØ	W14a	V
5#	DC5404*	120mØ	5.5G§	2.0mØ	§J	20	15	3.0	10m	300n	5.0Ø	2.0m	70 †				600f	PLØ	W14a	V
6	2N1586	125m	5.0MΔ	2.0m	#S	15	10	1.0	25m	1.0u	5.0Ø	1.0mØ	9.0 Δ	1.5uØb	100 Ø	12 Ø	30pØ		O3f	A
7	2N1587	125m	5.0MΔ	2 0m	#S	30	20	1.0	25m	1.0u	5.0Ø	1.0mØ	9.0 Δ	1.5uØb	100 Ø	12 Ø	30pØ		O3f	A
8	2N1588	125m	5.0MΔ	2.0m	#S	60	40	1.0	25m	1.0u	5 0Ø	1.0mØ	9 0 Δ	1.5uØb	100 Ø	12 Ø	30pØ		O3f	A
9	2N1589	125m	5.0MΔ	2.0m	#S	15	10	1.0	25m	1.0u	5 0Ø	1.0mØ	25 Δ	1.5uØb	100 Ø	12 Ø	30pØ		O3f	A
10	2N1590	125m	5.0MΔ	2.0m	#S	30	20	1.0	25m	1.0u	5.0Ø	1.0mØ	25 Δ	1.5uØb	100 Ø	12 Ø	30pØ		O3f	A
11	2N1591	125m	5.0MΔ	2.0m	#S	60	40	1.0	25m	1.0u	5.0Ø	1.0m	25 Δ	1.5uØb	100 Ø	12 Ø	30pØ		O3f	A
12	2N1592	125m	5.0MΔ	2.0m	#S	15	10	1.0	25m	1.0u	5.0Ø	1.0m	70 Δ	1.5uØb	100 Ø	12 Ø	30pØ		O3f	A
13	2N1593	125m	5.0MΔ	2.0m	#S	30	20	1.0	25m	1.0u	5.0Ø	1 0m	70 Δ	1.5uØb	100 Ø	12 Ø	30pØ		O3f	A
14	2N1594	125m	5.0MΔ	2.0m	#S	60	40	1.0	25m	1.0u	5 0Ø	1.0m	70 Δ	1.5uØb	100 Ø	12 Ø	30pØ		O3f	A
15	2N264	125m	10MΔ	1.0m	$S	45	30	1.0	20m	1.0uØ	5.0	10mØ	20 †Δ	1.0uØb	80 Ø	2 0 Ø	3.0pØ		O3	A
16	JAN2N337†	125m	10MΔ	1.0m	$A	45	45	1.0		500nØ	20	1.0m	20 Δ	1.0uØb	80 Ø	20 Ø	3.0p		TO5	A
17	2N337†	125m	20M	1.0m	$J	45		1.0	20m	1.0uØ	5.0Ø	10mØ	55 t Ø	200nb	50	2.0	1.2p	GD	TO5	A
18	JAN2N338†	125m	20MΔ	1.0m	$A	45	45	1.0		500nØ	20	1.0m	40 Δ	1.0uØb	80 Ø	20 Ø	3.0p		TO5	A
19	2N1104	125m	20MΔ	1.0m	$S	45	35	1 0	20m	1.0uØ	20	1.0m	40 Δ	1.0uØb	80 Ø	20 Ø	3.0pØ		TO5	A
20	TI493	125m	20M	1.2m	♦J	40	20	1.0	20m	2.0uØ	5.0Ø	10mØ	15 †Δ	200n	30	2.0	2.0p	G	TO5	A
21	TI494	125m	20M	1.2m	♦J	40	20	1 0	20m	2.0uØ	5.0Ø	10mØ	40 †Δ	200n	30	2.0	2.0p	G	TO5	A
22	TI495	125m	20M	1.2m	♦J	40	20	1.0	20m	2.0uØ	5.0Ø	10mØ	120 †Δ	200n	30	2.0	2.0p	G	TO5	A
23	2N338†	125m	30M	1 0m	$J	45		1.0	20m	1.0uØ	5.0Ø	10mØ	80 †	200nb	50	3.0	1.2p	GD	TO5	A
24	JAN3N35	125m	70M§Δ	714u	§S	30		1.0		200nØ	20Ø	1.3m	10 Δ					$	TO12	AC
25	3N34	125m	100M	1.0m	$J	30	30	1.0	20m	.40uØ	20Ø	1.3m	25				1.5p	GD$	TO12	GA
26#	BSW69	125m	130M§	1.6m	♦J	150			50m	100nØ		4.0mØ	30 †Δ					Δ	S4	F
27	3N35	125m	150M	1.0m	$J	30	30	1.0	20m	.40uØ	20Ø	1.3m	25				1.5p	GD$	TO12	GA
28#	2SC715†	125m	200M§		♦J	40		5.0	100m	1.0u	6.0Ø	1.0mØ	80 †				3.0p	PE	R145	D
29#	BSW58†	125m	500M§	1.6m	$J	40	15	5.0	500m	#400nØ	1.0Ø	10mØ	40 Δ†				4.0p$Ø	PE	S4	F
30#	BSW59†	125m	600M§	1.6m	$J	30	12	5.0	500m	#400nØ	1.0Ø	10mØ	60 Δ†				4.0p$Ø	PE	S4	F
31	2N1271	130m§		769u	$S	20		2.0	100m	.70u	10Ø	2.0mØ	20				1.5p	D	TO9	AØ
32	2SC562	130m		1.0m	§J	40	30	4.0	25m		10	4.0m	40 †Δ				.22p†	PL	TO72	
33	BF167	130m	350M§	1.0m	§J	40	30	4.0	25m		10Ø	4.0m	57					PL	TO72	
34#	SF167	130m	400M§	1.0m	$A	40	30	4.0	25m	50nØ	10Ø	4.0mØ	26 †Δ				350f†	DPL	X149	B
35#	SF196	130m	400M§	1.0m	$A	40	30	4.0	25m	50nØ	10Ø	4.0mØ	26 †Δ				200f†	DPL	X149	C
36#	BFX62	130m*	675M§	1.0m	§J	30	20	4.0	12m	50nØ	10Ø	2 0mØ	40 †				280f†	PØ	TO72	J
37#	BFW92	130m§	1.6G§	2.5m	♦J	25	15	2.5	25m	50nØ	1.0Ø	2.0mØ	20 †Δ				700f$	PE†	W15	C
38	2SC645	140m	200M§		§J	30		5.0	30m	1.0uØ	10Ø	1.0mØ	100				1.5p	PE	R128	
39#	BF480	140m#	1.5G§	2.0m	♦J	20	15	2.0	20m		10	10m	10 †Δ					PLØ	W15	A
40	2SC563	145m		1 2m	§J	40	25	4.0	25m		10	7.0m	38 †Δ				.23p†	PE	TO72	
41#	2SC477	145m*	190M§	1 1m	§J	32	32	4.0	30m		10	10m	80					PLØ	TO18	
42	2N4435	145m	220M	1.1m		30	20	5.0	30m		10Ø	1.0mØ	67 †					PE	TO72	A
43#	BF185	145m	220M§	1.1m	§J	30	20	5.0	30m		10Ø	1 0mØ	67 †				650f†	PE	TO72	J
44♦#	BF115	145m	230M§	1.1m	§J	50	30	5.0	30m		10Ø	1.0mØ	45						TO72	J
45	2N4434	145m	300M	1.1m		30	20	5.0	30m		10Ø	1.0mØ	115 †					PE	TO72	A
46#	BF184	145m	300M§	1.0m	§J	30	20	5 0	30m		10Ø	1.0mØ	115 †				650f†	PE	TO72	J
47	2N1005	150m		1.0m	§S	15	15	1.0	25m	.10uØ	5.0Ø	10mØ	10 †Δ						TO5	A
48	2N1006	150m		1.0m	§S	15	15	1 0	25m	.10uØ	5.0Ø	10mØ	25 †Δ						TO5	A
49	2N1269	150m§		769u	$S	20		2.0	100m	.70u	10Ø	2.0mØ	50				1.5p	D	TO9	AØ
50	2N1417	150m		1.2m	§S	15	15	2.0	50m	1.0u	6.0	1.0m	30 Δ		90 Øb				TO5	A
51	2N1418	150m		1.2m	§S	30	30	2.0	50m	10u	6.0	1.0m	30 Δ		90 Øb				TO5	A
52	2N2349	150m		1.2m	§J	40	24	1.5	25m	1.0uØ	5.0Ø	10mØ	120 †Δ	1.2uØb	90 Ø	20 Ø	4.0pØ	G	TO5	A
53	2N2610	150m		1.2m	$S	45	40	1 0	25m	2.0uØ	5.0Ø	1.0mØ	9.0 Δ	1.2uØb	80 Ø	5.0 Ø	20pØ		O3e	A
54	2N3247	150m		1.2m	$A	60	45	10	50m	1.0nØ	6.0	1.0mØ	200 Δ	1.0uØb	32 Ø	6.0 Ø	5.0pØ	Ø	X16	D
55#	2SC1622	150m		1.5m	♦J	30	25	5.0	30m	50nØ	3.0Ø	500uØ	400 †*	22u	14k	5 8		E	X156b	A
56#	2SC1622D6	150m		1.5m	♦J	30	25	5 0	30m	50nØ	3.0Ø	500uØ	200 †Δ*					E	X156b	A
57#	2SC1622D7	150m		1.5m	♦J	30	25	5.0	30m	50nØ	3.0Ø	500uØ	300 †Δ*					E	X156b	A
58#	2SC1622D8	150m		1.5m	♦J	30	25	5.0	30m	50nØ	3.0Ø	500uØ	450 †Δ*					E	X156b	A
59#	2SC1623	150m		1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	200 †*					E	X156b	A
60#	2SC1623L3	150m		1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	60 †Δ*					E	X156b	A
61#	2SC1623L4	150m		1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	90 †Δ*					E	X156b	A
62#	2SC1623L5	150m		1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1 0mØ	135 †Δ*					E	X156b	A
63#	2SC1623L6	150m		1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	200 †Δ*					E	X156b	A
64#	2SC1623L7	150m		1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	300 †Δ*					E	X156b	A
65#	2SC1787	150m		1.5m	♦J	35	35	5.0	50m	100nØ#	5 0Ø	2.0mØ	260 Δ†					PE	S9	B
66▼#	2SC1980	150m		1.5m	♦J	120	120	5.0	50m	#100nØ	5.0Ø	2.0mØ	260 †Δ						TO92	B
67#	BFV16	150m		1.2m	§J	100		3.0			10Ø	30mØ	20 Δ					PL	S5a	P
68#	BFV51†	150m		1.2m	§J	60	30	5.0	800m	.50uØ	10Ø	150mØ	50 †Δ				8pØ	PE	S5a	P
69#	BFV53†	150m		1.2m	§J	60	30	5.0	800m	.50uØ	10Ø	150mØ	50 †Δ				8pØ	PE	S5a	P
70#	BFV60	150m		1.0m	§J	30	30	5.0	30m	.05uØ	5.0Ø	.10mØ	100 Δ				8pØ	PEØ	S5a	P
71#	BFV61	150m		1.0m	§J	30	30	5.0	30m	.05uØ	5.0Ø	.10mØ	100 Δ				8pØ	PEØ	S5a	P
72#	BFV62	150m		1.2m	§J	60	50	6.0	50m	.05uØ	5.0Ø	.10mØ	100 Δ				6pØ	PEØ	S5a	P
73#	PL1021	150m		1.0m	§S	40	15	4.5		.4uØ§	1.0Ø	10mØ	20 †Δ				4pØ	PEΔ	W7	E
74#	PL1022	150m		1.0m	§S	40	15	4.5		.4uØ§	1.0Ø	10mØ	40 †Δ				4pØ	PEΔ	W7	E
75#	PL1023	150m		1.0m	§S	40	15	4.5		4uØ§	.35Ø	10mØ	40 †Δ				4pØ	PEΔ	W7	E
76#	PL1024	150m		1.0m	§S	20	12	5.0		1.0u§	.35Ø	10mØ	20 †Δ				5pØ	PEΔ	W7	E
77#	PL1025	150m		1.0m	§S	20	12	5.0		1.0u§	.35Ø	10mØ	40 †Δ				5pØ	PEΔ	W7	E
78#	PL1026	150m		1.0m	§S	30	12	5.0		.4uØ§	.35Ø	10mØ	30 †Δ				4pØ	PEΔ	W7	E
79#	PL1051	150m		1.0m	§S	60	30	5.0		10nØ	10Ø	1.0mØ	25 †Δ				8pØ	PEΔ	W7	E
80#	PL1052	150m		1.0m	§S	75	40	6.0		10nØ	10Ø	1.0mØ	25 †Δ				8pØ	PEΔ	W7	E
81#	PL1053	150m		1.0m	§S	60	30	5.0		10nØ	10Ø	1.0mØ	50 †Δ				8pØ	PEΔ	W7	E
82#	PL1054	150m		1.0m	§S	75	40	6.0		10nØ	10Ø	1.0mØ	50 †Δ				8pØ	PEΔ	W7	E
83#	PL1055	150m		1.0m	§S	60	30	5.0		10nØ	10Ø	1.0mØ	12 †Δ				8pØ	PEΔ	W7	E
84#	PL1061	150m		1.0m	§S	45	45 *	5.0			5.0Ø	10uØ	40 †Δ				8pØ	PL	W7	E
85#	PL1062	150m		1.0m	§S	45	45 *	5.0			5.0Ø	10uØ	100 †Δ				8pØ	PL	W7	E
86#	PL1063	150m		1.0m	§S	60	60 *	6.0			5.0Ø	10uØ	100 †Δ				6pØ	PL	W7	E
87#	PL1064	150m		1.0m	§S	25	25 *	5.0			5.0Ø	10uØ	180 †Δ				8pØ	PL	W7	E
88#	PL1065	150m		1.0m	§S	60	60 *	6.0			5.0Ø	10uØ	40 †Δ				6pØ	PL	W7	E
89#	PL1066	150m		1.0m	§S	25	25 *	5.0			5.0Ø	10uØ	40 †Δ				8pØ	PL	W7	E
90#	PL1067	150m		1.0m	§S	25	25 *	5.0			5.0Ø	10uØ	100 †Δ				8pØ	PL	W7	E
91#	PL1081	150m		1.0m	§S	60	40 §*	5.0			10Ø	150mØ	20 †Δ#					PL	W7	E
92#	PL1082	150m		1.0m	§S	60	40 §*	5.0			10Ø	150mØ	40 †Δ#					PL	W7	E
93#	PL1083	150m		1.0m	§S	75	50 §*	7.0			10Ø	150mØ	100 †Δ#					PL	W7	E
94#	PL1084	150m		1.0m	§S	75	50 §*	7.0			10Ø	150mØ	40 †Δ#					PL	W7	E
95#	PL1085	150m		1.0m	§S	120	100 §*	7.0			10Ø	150mØ	40 †Δ#					PL	W7	E
96#	PL1111	150m		1.0m	§S	30	15	3.0		1nØ	1.0Ø	3.0mØ	20 †Δ				1.7pØ	PE	W7	E
97#	PL1112	150m		1.0m	§S	30	15	3.0		10nØ	1.0Ø	3.0mØ	20 †Δ				1.7pØ	PE	W7	E
98#	PL1113	150m		1.0m	§S	30	13	3.0		10nØ	10Ø	4.0mØ	20 †Δ				2.5pØ	PE	W7	E
99▼#	uPA37A*	150m		1.0m	§J	25	13	5.0	80m	100nØ	3.0Ø	2.0mØ	50 †Δ					E	R131h	PD
100♦	JAN2N117	150m	1.0MΔ	1.2m	$S	30		1 0		1.0u	5.0	1.0m	9.0 Δ	1.5uØb	90 Ø	5.0 Ø	20pØ		O3b	F
101♦	JAN2N118	150m	2.0MΔ	1.2m	$S	30		1.0		1.0u	5.0	1.0m	18 Δ	1.5uØb	90 Ø	10 Ø	20pØ		O3b	F
102	JAN2N119	150m	2.0MΔ	1.2m	$S	30		1.0		1.0u	5.0	1.0m	37 Δ	1.5uØb	90 Ø	15 Ø	20pØ		O3b	F
103	2N906	150m	2.0MΔ	1.0m	§A	45	30	1.0	25m	2.0uØ	5.0	1.0m	76 Δ	1.2uØb	80 Ø	10 Ø	10pØ		R218	AØ
104	JAN2N333	150m	2.5MΔ	1.0m	§S	45	45	1.0		500nØ	5.0	1.0m	44 Ø	1.2uØb	80 Ø	10 Ø	15pØ		TO5	A
105	JAN2N335	150m	2.5MΔ	1.0m	§S	45	45	1.0		500nØ	5.0	1.0m	90 Ø	1.2uØb	80 Ø	10 Ø	15pØ		TO5	A
106	JAN2N336	150m	2.5MΔ	1.0m	§S	45	45	1.0		500nØ	5.0	1.0m	270 Ø	1.2uØb	80 Ø	10 Ø	15pØ		TO5	A
107	2N3268	150m	2.5MΔ	1.0m	§S	45	45	1.0	25m	500nØ	5.0	1.0m	40 Δ	1.2uØb	80 Ø	10 Ø	15pØ		TO5	A
108	2N117	150m	4.0M	1.0m	§S	45		1.0	25m	2.0uØ	5.0	1.0m	15	400nb	42	1.2	7.0p	G	O3b	
109	2N160	150m	4.0M	1.0m	S	40		1.0	25m	10u	5.0	1.0m	15	400nb			7.0p	A	O3e	
110	2N160A	150m	4.0M	1.0m	S	40		5.0	25m	10u	5.0	1.0m	15	400nb			7.0p	A	O3e	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1#	BFV43†	150m	300M§△	1.2m	§J	30	12	4.0	200m	.50u§	1.0Ø	30mØ	30 †△				5p☑	PE	S5a	P
2#	BFV44†	150m	300M§△	1.2m	§J	30	15	4.0	200m	.50u§	1.0Ø	30mØ	30 †△				5p☑	PE	S5a	P
3#	BFV46†	150m	300M§△	1.2m	§J	35	15	5.0		.08uØ	1.0Ø	100mØ	30 †△				5p☑	PE	S5a	P
4	TC3200	150m	300M§△		§J	20	30	25		20u	10Ø	4.0mØ	25 †△				200f$☑	PE	TO72	G
5#	2SC739	150m	350M§	1.5m	♦J	25	12	4.0	20m	1 0uØ	6.0Ø	1.0mØ	60 †#				1 5p	PE†	TO92	D
6#	SF335	150m	370M§	1.6m	§J	40	30	4.0	25m	50nØ	10Ø	1.0mØ	36 †△				350ft	DPE	X149	C
7#	SF335C	150m	370M§	1 6m	§J	40	30	4.0	25m	50nØ	10Ø	1.0mØ	72 †△				350ft	DPE	X149	C
8#	SF335D	150m	370M§	1.6m	§J	40	30	4.0	25m	50nØ	10Ø	1.0mØ	38 †△				350ft	DPE	X149	C
9	2N3493	150m	400M§△	860u	§S	12	8.0	5.0	25m	5.0n#	0.5Ø	10u	25 †△				700f☑		R176a	G
10#	2SC269†	150m	400M§△	1.2m	§J	25	20 Ø	5.0	150m	1.0uØ	1.0Ø	10mØ	90 †				3.5p	PE	W3a	C
11#	2SC463H	150m	400M§△	1.2m	§J	35	35	4.0	20m	100n	10Ø	2 0mØ	5.5				.6p☑	PLØ	R217	G
12#	2SC738	150m	400M§	1.5m	♦J	25	12	4.0	20m	1.0uØ	6.0Ø	1.0mØ	60 †#				1.5p	PE†	TO92	D
13#	2SC1621B2†	150m	400M§	1.5m	♦J	25	20 Ø	5.0	200m	100nØ	.50Ø	1.0m	40 †△*				6.0p☑	E	X156b	A
14#	2SC1621B3†	150m	400M§	1.5m	♦J	25	20 Ø	5.0	200m	100nØ	.50Ø	1.0m	60 †△*				6.0p☑	E	X156b	A
15#	2SC1621B4†	150m	400M§	1.5m	♦J	25	20 Ø	5.0	200m	100nØ	.50Ø	1.0m	90 †△*				6.0p☑	E	X156b	A
16#	BF252	150m	400M§	1.0m	§J	40	40	4.0		100n§	10Ø	2.0mØ	30 †△					DPL	TO72	
17#	BFV42†	150m	400M§△	1.2m	§J	35	15	4.5	200m	.40uØ	1 0Ø	10mØ	30 †△				4p☑	PE	S5a	P
18#	BFV47	150m	400M§△	1.2m	§J	30	12	5.0	200m	.40u§	.35Ø	10mØ	30 †△				4p☑	PE	S5a	P
19#	PL4021†	150m	400M§△	1.0m	§S	40	15 *	4.5	200m	.40uØ	1.0Ø	10mØ	20 †△				4p☑	PE	S6	
20#	SF334	150m	430M§	1.6m	§J	40	30	4.0	30m	50nØ	10Ø	1.0mØ	67 †△				350ft	DPE	X149	C
21#	SF334B	150m	430M§	1.6m	§J	40	30	4.0	30m	50nØ	10Ø	1.0mØ	110 †△				350ft	DPE	X149	C
22#	2SC921	150m	450M§△		§J	25	12	4.0	10m	100n	3.0Ø	500uØ	65 †				1.5p☑	PE	u23a	C
23♦#	2SC1779	150m	450M§△	1.5m	♦J	30	20	3.0	20m	100uØ#	10Ø	2.0mØ	25 △†				500ft	PL	TO92	E
24#	2SC605	150m	480M§		§J	30	30	4.0	20m	.20uØ	10Ø	2 0mØ	60 †				1p☑	PL	W3a	C
25#	2SC389	150m	500M§	1.2m	§J	20	15	3.0	20m	10u	5.0Ø	4.0m	50				1p☑	PL	TO72	
26#	2SC657	150m	500M§		§S	18	18	3.0	30m	.20uØ	10Ø	4.0mØ	50 †				1.1p	D	X153	
27#	2SC927	150m	500M§		♦J	30	15	3.0	20m	1.0u	6.0Ø	1.0mØ	80 †				1.0p	PL	TO104	
28#	BF288	150m	500M§	1.0m	§J	40	40	4.0	20m	50n§	7.0Ø	1.0mØ	65 †△					DPE	TO72	
29#	BFV27†	150m	500M§△	1.2m	§J	15	6.0	4.0		.10uØ	1.0Ø	30mØ	15 †#△				3pØ	PE	S5a	P
30#	BFV28†	150m	500M§△	1.7m	§J	15	6.0	4.0	50m	10u§	.40Ø	1.0mØ	15 †#△				3p☑	PE	S5a	P
31#	BFV80	150m	500M§△	1.2m	§J	25	12	3.0	50m	.50uØ	1.0Ø	3.0mØ	20 †△				1.7p	PEØ	S5a	P
32#	PL4022†	150m	500M§△	1.0m	§S	40	15 *	4.5	200m	.40uØ	1.0Ø	10mØ	40 †△				4p☑	PE	S6	
33#	PL4023†	150m	500M§△	1.0m	§S	40	15	4.5	200m	.40u§	1.0Ø	100mØ	20 †△#				4p☑	PE	S6	
34#	2SC606	150m	530M§		§J	30	30	4.0	20m	.20uØ	10Ø	2.0mØ	60 †				1p☑	PL	W3a	C
35#	BF200	150m	550M§	1.0m	§J	30	20	3.0	20m		10Ø	3.0mØ	16 △				.90p	PLØ	TO72	G
36#	2SC762	150m	600M§	1.0m	§J	30	20	3.0	20m	100u#	10	2.0m	13 †△				280ft	PLØ	TO72	G
37#	2SC997	150m	600M§		§J	40	30		25m	25nØ	10Ø	4.0mØ	70 †				1.5p	PL	TO72	G
38♦#	2SC1778	150m	600M§△	1.5m	♦J	25	20	3.0	15m	100uØ#	10Ø	3.0mØ	50 †				500ft	PL	TO92	E
39♦	BF181	150m	600M§	1.0m	§J	30	20	3.0	20m								280ft	PLØ	TO72	G
40#	BF251	150m	600M§	1 0m	§J	30	30	4 0		50n§	10Ø	4.0mØ	30 †△					DPL	TO72	
41#	BF270	150m	600M§	1.0m	§J	40	40	4.0	20m		10Ø	4.0mØ	50 †					PL	TO72	J
42#	BFV59	150m	600M§△	1.3m	§S	25	13	3.0	50m	.05uØ	10Ø	4.0mØ	20 △				2.5p	PEØ	S5a	P
43#	BFW63	150m	600M§	1 0m	§J	40	30	4 0		.5uØ§	10Ø	4 0mØ	70 †#				.2p†	DPLØ	TO72	J
44#	PL4112	150m	600M§△	1.0m	§S	30	15	3.0	200m	10nØ	1.0Ø	3.0mØ	20 †△				2.0p☑	PEØ	S6	
45#	SF173	150m	600M§	1.2m	§A	40	25	4.0	25m	50nØ	10Ø	7.0mØ	38 †△				400ft	DPE	X149	B
46#	SF197	150m	600M§	1 2m	§A	40	25	4.0	25m	50nØ	10Ø	7.0mØ	38 †△				300ft	DPE	X149	C
47#	2SC707	150m	650M§			20	20	3.0	20m	100u	10Ø	2.0mØ	50 †				.40p	PØ		
48♦#	2SC947	150m	650M§	1.0m	§J	25	20	3.0	15m	100u#	10	2.0m	20 †				330ft	PL	TO72	G
49#	2SC1047	150m	650M§	1.5m	♦J	30	20	3.0	15m	10u	6 0	1.0m	40 †△				800ft	PEØ	TO92	B
50	A482	150m	650M§	1.0m	§J	25	20	3.0	15m	50nØ	10	2 0m	20 †				1.1p	PEØ	TO72	G
51	A484	150m	650M§	1.0m	§J	30	20	3.0	20m		10	3.0m	30 †				.28p†	PLØ	TO72	G
52♦#	BF182	150m	650M§	1 0m	§J	25	20	3.0	15m								330ft	PLØ	TO72	G
53	BF200☑	150m	650M§	1 0m	§J	30	20	1 0	20m	50nØ	10Ø	3.0mØ	15 †△				280ft	ANØ	TO72	G
54#	BFW64	150m	650M§	1.0m	§J	40	30	4.0		.5uØ§	10Ø	4.0mØ	70 †#				.2p†	DPLØ	TO72	J
55#	2SC761	150m	675M§	1.0m	§J	30	20	3 0	20m	100u#	10	2.0m	13 †△				280ft	PLØ	TO72	G
56♦	BF180	150m	675M§	1 0m	§J	30	20	3.0	20m								280ft	PLØ	TO72	G
57#	BF261	150m	700M§	1.0m	§J	40	30	4.0	50m		6.0Ø	1.0mØ	70 †					PL	TO72	C
58#	BF273	150m	750M§	1.4m	♦J	40	35	4 0	50m		7.0Ø	10mØ	80 †				400ft	PE	TO106	C
59#	BF274	150m	750M§	1.4m	♦J	40	35	4.0	50m		7.0Ø	10mØ	40 †				400ft	PE	TO106	C
60#	2SC618	150m	800M§	1.2m	§J	25	13	4.0	25m	100nØ	6.0Ø	2.0m	80		60			PE	TO72	GØ
61#	2SC618A	150m	800M§	1.2m	§J	25	13	4.0	25m	100nØ	6.0Ø	2.0m	80		60			PE	TO72	GØ
62#	2SC629	150m	800M§		§S	18	13	3.0	30m	.20uØ	3.0Ø	1.0mØ	30 †				1.3p	D	X153	
63♦#	2SC948	150m	800M§	1.0m	§J	25	20	3.0	15m	100u#	10	3.0m	24 †				330ft	PL	TO72	G
64#	2SC1180	150m	800M§		§J	30	20	3.0	20m	1.0uØ	6.0Ø	1.0mØ	130 †					PL	TO72	
65	A483	150m	800M§	1.0m	§J	25	20	3.0	15m	100nØ	10	3.0m	23 †				1.1p	PE	TO72	G
66♦#	BF183	150m	800M§	1.0m	§J	25	20	3.0	15m								330ft	PL	TO72	G
67#	BF287	150m	800M§	1.0m	§J	40	40	4.0	20m	50n§	10Ø	2 0mØ	40 †△					DPE	TO72	
68#	2SC1117	150m	850M§	1.2m	§J	20	20	3.0	20m	1.0uØ	10Ø	2.0mØ	150 †				350ft	PL	R217	G
69#	BFW41	150m	850M§	1.2m	§S	30	15	3.0	30m	1.0u	1.0Ø	3.0mØ	65				3.0pØ☑	PE	TO72	G
70♦#	2SC1070	150m	900M§	1.2m	§J	30	25	4.0	20m	100nØ	10Ø	3.0mØ	40 †△*				500f	Ø	W102	U
71♦#	2SC1547	150m	900M§	1.2m	§J	30	20	3.0	20m	1.0uØ	10	3 0m	20 †△				800f	PL	TO72	G
72#	BF290	150m	900M§	1.0m	§J	40	40	4.0	20m	50n§	10Ø	3.0mØ	40 †△					DPE	TO72	
73#	2SC392	150m	1.0G§		§J	30	20	3.0	20m	500n	10Ø	2.0mØ	80 †				1.5p☑	PL	TO72	G
74#	2SC787	150m	1.0G§	1.2m	§J	25	20	3 0	20m	25nØ	10Ø	2.0mØ	25 †△				300ft	PLØ	TO72	G
75#	2SC287A	150m	1.1G§	1.2m	§J	35	15	4.0	20m	1.0uØ	10Ø	5.0mØ	80 †*				700f	E	W3a	C
76#	2SC288A1*	150m	1.1G§	1.2m	§J	35	15	4.0	20m	1.0uØ	10Ø	5.0mØ	80 †				1.1p	E	W106	E
77♦#	2SC288A	150m	1.1G§	1.2m	§J	35	15	4.0	20m	200nØ	10Ø	5.0mØ	80 †*				700f	E	W106	E
78♦#	2SC1780	150m	1.2G§△	1.5m	♦J	25	18	3.0	15m	100uØ#	10Ø	2.0mØ	50 †				1.2p†☑	PE	S9	B
79♦#	2SC1790	150m	1.2G§△	1.0m	♦J	25	18	3.0	15m	100u	10Ø	2 0mØ	50 †				800ft☑	PE	TO72	G
80#	BF308	150m	1.4G§		§	40	35	4.0	50m	500u	7 0Ø	1.0mØ	60 †					PE	TO72	J
81#	BF309	150m	1.4G§		§	40	35	4.0	50m	500u	7.0Ø	1.0mØ	105 †					PE	TO72	J
82	2N5650	150m	2.0G§△	1.2m	§S	20	15	3.0	30m	50nØ	10Ø	3.0mØ	30 †△				700f$☑	Ø	TO72	G
83	2N5651	150m	2.0G§△	1.2m	§S	20	15	3.0	30m	50nØ	10Ø	3.0mØ	30 †△				700f$☑	Ø	TO72	G
84	2N5652	150m	2.0G§△	1.2m	§S	20	15	3.0	30m	50nØ	10Ø	3.0mØ	30 †△				700f$☑	Ø	TO72	G
85#	2SC988	150m	3.0G§	1.2m	§J	20	15	3.0	30m	.50uØ	10Ø	10mØ	30 †△				.7p☑	PE	TO72	G
86#	FT3716*	150mØ	3.0G§	1.0m	§J	20	10	3.0	40m	500nØ	6.0Ø	10mØ	100 †				900f$	PE	W18a	S
87#	2SC988A	150m	3.5G§	840m	§J	20	15	3.0	30m	500nØ	10Ø	10mØ	30 †△				700f☑	PE	TO72	G
88#	2SC988B	150m	3.5G§	840m	§J	20	15	3.0	30m	500nØ	10Ø	10mØ	30 †△				700f☑	PE	TO72	G
89#	2SC1742	150m	5.5G△§	1.0m	§J	20	10	2.0	30m	100nØ	5.0Ø	10mØ	120 †				800f	PE△	W69	C
90▼	HXTR6103*	150mØ	6 0GØ	3 3mØ	§J	25	16	1.0	10m	100nØ	10Ø	3.0mØ	150 †						W26a	V
91▼	HXTR6104*	150mØ	6.0GØ	3.3mØ	§J	25	16	1.0	10m	100nØ	10Ø	3.0mØ	150 †						W26a	V
92▼#	2SC2115	150m	6 5G§	1.7m	♦J	20	10	2.0	30m	1.0uØ	5.0Ø	10mØ	120 †				800m☑	PE	W110	D
93♦#	2SC1656	150m	7.0G§	860u	§J	10	6.0	3.0	30m	100n	3 0Ø	10mØ	100 †				500f☑	E	W18	S
94#	FT1727AR*	150mØ	7.0G§	1.0m	§J	20	13	3.0	20m	500nØ	8 0Ø	7.0mØ	80 †				150f$	PE	W18a	S
95#	FT1727R*	150mØ	7.0G§	1.0m	§J	20	13	3.0	20m	500nØ	8.0Ø	7.0mØ	80 †				150f$	PE	W18a	S
96#	FT3718*	150mØ	7.5G§	1 0m	§J	20	13	3.0	30m	500nØ	8.0Ø	10mØ	80 †				250f$	PE	W18a	S
97♦#	2SC1655*	150m	8.0G§	1 0m	§J	16	8 0	3.0	30m	100nØ	3.0Ø	10mØ	100 †				500f☑	E	W18	S
98♦#	2SC1655A*	150m	8.0G§	1.0m	§J	16	8.0	3.0	30m	100nØ	3.0Ø	10mØ	100 †				500f☑	E	W18	S
99♦#	2SC1948-1*	150m	8.0G§	860u	§J	15	10	3.0	20m	1.0uØ	8.0Ø	10mØ	80 †				300f	E	W29c	S
100♦#	2SC1948-2*	150m	8 0G§	860u	§J	15	10	3.0	20m	1.0uØ	8 0Ø	10mØ	80 †				300f	E	W29c	S
101♦#	2SC1948-5*	150m	8.0G§	860u	§J	15	10	3.0	20m	1.0uØ	8.0Ø	10mØ	80 †				300f	E	W29c	S
102#	FT3717*	150mØ	8.0G§	1.0m	§J	16	8.0	3.0	30m	500nØ	3.0Ø	10mØ	80 †				300f$	PE	W18a	S
103	2N4433	165m	200M§	1.1m	§J	50	30	5.0	30m	.01uØ	10Ø	1.0mØ	50 †△				1.5p	PEØ	TO72	J
104#	BCW87	167m§	125M§△	1.2m	§J	45	45	7 0	100m	10n	5.0Ø	2.0mØ	250 †△	30u	4.5k	2.0	6.0p$☑	PE	W71	A
105	2N1272	170m§		769u	§S	20		2.0	100m	.70u	10Ø	2.0mØ	50				1.5p	D	TO9	AØ
106	2N4259	175m		1.1m	§	40	30	2 5		10nØ	8.0Ø	2.0mØ	70 △				550p	Ø	R176b	G
107#	BSX38	175m*	200M△§	1.7m	§J	35	30	5.0	100m	.05uØ	.50Ø	10mØ	65 †△				5.0p	PL	TO18	
108	SE5022	175m	300M§△	1.1m	§J	20	20	3.0		50nØ	5.0Ø	4.0mØ	40 †#				500ft☑	DPLØ	TO72	Ø
109	SE5023	175m	300M§△	1.1m	§J	20	20	3.0		50nØ	5.0Ø	4.0mØ	40 †#				500ft☑	DPLØ	TO72	Ø
110	SE5024	175m	300M§△	1.2m	§J	20	20	3 0		.05uØ	5.0Ø	4.0mØ	40 †#				.5p†☑	DPLØ	TO72	G

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC-TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	2N3877A	200m		2.6m	$S	85	85	4.0	50m	500nØ	4.5Ø	2.0mØ	20 †Δ						TO98 B
2	2N3900	200m		2.6m	♦S	18	18	5.0	100m	100n	4.5Ø	2.0mØ	170 Δ				12p☑		TO98 B
3	2N3900A	200m		2.6m	♦S	18	18	5.0	100m	100n	4.5Ø	2.0mØ	170 Δ				12p☑	Ø	TO98 B
4	2N3901	200m		2.6m	♦S	18	18	5.0	100m	100nØ	10Ø	2.0mØ	350 Δ					Ø	TO98 B
5	2N4086	200m		2.6m	♦S	12	12	5.0	100m	100n	10Ø	2.0mØ	150 Δ				12p☑		TO98 B
6	2N4087	200m		2.6m	♦S	12	12	5.0	100m	100n	10Ø	2.0mØ	250 Δ				12p☑		TO98 B
7	2N4087A	200m		2.6m	♦S	12	12	5.0	100m	100n	10Ø	2.0mØ	250 Δ				12p☑	Ø	TO98 B
8	2N4256†	200m		2.6m	♦S	30	30 Ø	5.0	100m	500n	.20Ø	10mØ	60 †Δ						TO98 B
9	2N5172	200m		2.6m	$S	25	25	5.0	100m	100n	10Ø	10mØ	100 Δ				10p$☑		TO98 B
10	2N5174	200m		2.6m	♦S	90	75	5.0	25m	500nØ	5.0Ø	10mØ	40 Δ						TO98 B
11	2N5175	200m		2.6m	♦S	130	100	5.0	25m	500nØ	5.0Ø	10mØ	55 Δ						TO98 B
12	2N5176	200m		2.6m	♦S	130	100	5.0	25m	500nØ	5.0Ø	10mØ	140 Δ						TO98 B
13#	2SC603*	200m		1.6m	$J	7.0	4.5 §	7.0	50m	1.0uØ	.50Ø	100uØ	100 †				9.0p☑	PE△	R144a QY Ø
14#	2SC719†	200m		1.3m	§J	20	15	4.0	200m	400nØ	1.0Ø	10mØ	60 †					PE	TO46 AØ
15#	2SC1349†	200m		1.3m	§J	20	15	4.0	200m	400nØ	1.0Ø	10mØ	60 †					PE△	TO46 AØ
16	3N87Ø	200m		1.3m	§S	20		10	10m	1.0n	5.0Ø	500uØ	5.0 Δ				3.5p☑		TO72 GCØ
17	3N88Ø	200m		1.3m	§S	20		10	10m	1.0n	5.0Ø	500uØ	5.0 Δ				3.5p☑		TO72 GCØ
18	40894	200m		1.1m	§J	20	12	2.5	50m	20nØ	6.0Ø	5.0 Ø	14				700f$	PEØ	TO72 G
19	40895	200m		1.1m	§J	20	12	2.5	50m	20nØ	6.0Ø	5.0 Ø	14				700f$	PE	TO72 G
20	40896	200m		1.1m	§J	20	12	2.5	50m	20nØ	6.0Ø	5.0 Ø	14				700f$	PE	TO72 G
21	40897	200m		1.1m	§J	20	12	2.5	50m	20nØ	6.0Ø	5.0 Ø	14				700f$	PE	TO72 G
22	BC170	200m		2.0	♦J	20	20	5.0	100m	100n	1.0Ø	1.0 Ø	35 †Δ						TO106 A
23	CS4193	200m		2.0m	♦J	30	12	2.0		500nØ	10Ø	8.0mØ	50				1.4p	Ø	TO106 A
24	CS4194	200m		2.0m	♦J	30	12	2.0		500nØ	10Ø	8.0mØ	50				1.4p	Ø	TO106 A
25#	MD2974*	200m		1.6m	$J	45	45	6.0	30m	10nØ	5.0Ø	1.0mØ	150 †Δ					PL*Ø	R148a
26#	MD2975*	200m		1.6m	$J	45	45	6.0	30m	10nØ	5.0Ø	1.0mØ	300 †Δ					PL*Ø	R148a
27#	MD2978*	200m		1.6m	$J	60	60	6.0	30m	2.0nØ	5.0Ø	1.0mØ	150 †Δ					PL*Ø	R148a
28#	MD2979*	200m		1.6m	$J	60	60	6.0	30m	2.0nØ	5.0Ø	1.0mØ	300 †Δ					PL*Ø	R148a
29	MPS2923	200m		2.7m	#J	25	25	5.0	100m	.50u	10Ø	2.0mØ	90 Δ				12p☑	DE△	R196a
30	MPS2924	200m		2.7m	#J	25	25	5.0	100m	.50u	10Ø	2.0mØ	150 Δ				12p☑	DE△	R196a
31	MPS2925	200m		2.7m	#J	25	25	5.0	100m	.50u	10Ø	2.0mØ	235 Δ				12p☑	DE△	R196a
32	SA2253Ø	200m			§J	40				.05uØ	5.0Ø	.10mØ	25 †					PL	TO5
33	SA2254Ø	200m			§J	60	30			.01uØ	5.0Ø	.10mØ	45 †					PL	TO5
34▼#	2SN394	200m	200m§	2.0m	♦J	35	30	4.0	100m	500nØ	12Ø	2.0mØ	25 †Δ*				2.0p	PE	R67a A
35#	2SC466	200m	400m§	1.1m	§J	30	12	2.0	20m	500nØ	6.0Ø	1.0mØ	40				850f	PEØ	R103a G
36▼	MPS5127	200m	12k§Δ	2.0m	♦J	20	12 ☑*	3.0	100m	50nØ	10Ø	2.0mØ	12 Δ				3.5p$☑		TO92 A
37#	BF357	200m	1.6M§	1.6m	$S	30	15	3.0	50m	10nØ	6.0Ø	5.0mØ	100				1.2p	PE†	R203c A
38	2N470	200m	8.0M§Δ	1.2m	§S	15	15	2.0	25m	500n	5.0Ø	1.0m	10 Δ	1.5u☑b	90 ☑		8.0p☑		TO5 A
39	2N471	200m	8.0M§Δ	1.2m	§S	30	30	2.0	25m	500n	5.0Ø	1.0m	10 Δ	1.5u☑b	90 ☑		8.0p☑		TO5 A
40	2N471A	200m	8.0M§Δ	1.2m	§S	30	30	2.0	25m	500n	5.0Ø	1.0m	10 Δ	1.2u☑b	70 ☑	10 ☑	8.0p☑		TO5 A
41	2N472	200m	8.0M§Δ	1.2m	§S	45	45	2.0	25m	500n	5.0Ø	1.0m	10 Δ	1.5u☑b	90 ☑		8.0p☑		TO5 A
42	2N472A	200m	8.0M§Δ	1.2m	§S	45	45	2.0	25m	500n	5.0Ø	1.0m	10 Δ	1.2u☑b	70 ☑	10 ☑	8.0p☑		TO5 A
43	2N473	200m	8.0M§Δ	1.2m	§S	15	15	2.0	25m	500n	5.0Ø	1.0m	10 Δ	1.5u☑b	90 ☑		8.0p☑		TO5 A
44	2N474	200m	8.0M§Δ	1.2m	§S	30	30	2.0	25m	500n	5.0Ø	1.0m	20 Δ	1.5u☑b	90 ☑		8.0p☑		TO5 A
45	2N474A	200m	8.0M§Δ	1.2m	§S	30	30	2.0	25m	500n	5.0Ø	1.0m	20 Δ	1.2u☑b	70 ☑	10 ☑	8.0p☑		TO5 A
46	2N475	200m	8.0M§Δ	1.2m	§S	45	45	2.0	25m	500n	5.0Ø	1.0m	20 Δ	1.5u☑b	90 ☑		8.0p☑		TO5 A
47	2N475A	200m	8.0M§Δ	1.2m	§S	45	45	2.0	25m	500n	5.0Ø	1.0m	20 Δ	1.2u☑b	70 ☑	10 ☑	8.0p☑		TO5 A
48	2N541	200m	10M§Δ	1.2m	§S	15	15	2.0	25m	500nØ	5.0Ø	1.0m	80 Δ	1.5u☑b	90 ☑		20p☑		TO5 A
49	2N542	200m	10M§Δ	1.2	§S	30	30	2.0	25m	500nØ	5.0Ø	1.0m	80 Δ	1.5u☑b	90 ☑		20p☑		TO5 A
50	2N542A	200m	10M§Δ	1.2m	§S	30	30	2.0	25m	500n	5.0	1.0m	80 Δ	1.2u☑b	70 ☑	10 ☑	8.0p☑		TO5 A
51	2N543	200m	10M§Δ	1.2m	§S	50	50	2.0	25m	500nØ	5.0Ø	1.0m	80 Δ	1.5u☑b	90 ☑		20p☑		TO5 A
52	2N543A	200m	10M§Δ	1.2m	§S	50	50	2.0	25m	500n	5.0	1.0m	80 Δ	1.2u☑b	70 ☑	10 ☑	8.0p☑		TO5 A
53	2N476	200m	12M§Δ	1.2m	§S	15	15	2.0	25m	500n	5.0Ø	1.0m	30 Δ	1.5u☑b	90 ☑		10p☑		TO5 A
54	2N477	200m	12M§Δ	1.2m	§S	30	30	2.0	25m	500n	5.0Ø	1.0m	30 Δ	1.5u☑b	90 ☑		10p☑		TO5 A
55	2N476A	200m	17.M			15						1.0mØ	45					GD	
56	2N478	200m	20M§Δ	1.2m	§S	15	15	2.0	25m	500n	5.0Ø	1.0m	40 Δ	1.5u☑b	90 ☑		8.0p☑		TO5 A
57	2N479	200m	20M§Δ	1.2m	§S	30	30	2.0	25m	500n	5.0Ø	1.0m	40 Δ	1.5u☑b	90 ☑		8.0p☑		TO5 A
58	2N479A	200m	20M§Δ	1.2m	§S	30	30	2.0	25m	500n	5.0Ø	1.0m	40 Δ	1.2u☑b	70 ☑	10 ☑	8.0p☑		TO5 A
59	2N480	200m	20M§Δ	1.2m	§S	45	45	2.0	25m	500n	5.0Ø	1.0m	40 Δ	1.5u☑b	90 ☑		8.0p☑		TO5 A
60	2N480A	200m	20M§Δ	1.2m	§S	45	45	2.0	25m	500n	5.0Ø	1.0m	40 Δ	1.2u☑b	70 ☑	10 ☑	8.0p☑		TO5 A
61	2N1674	200m	20M§Δ	1.2m	§S	45	45	2.0	25m	500n	5.0Ø	1.0mØ	50 Δ	1.5u☑b	90 ☑		20p☑		TO5 A
62#	BC114	200m	20M§Δ	2.0m	♦J	30	25	6.0		.05uØ	10Ø	.05mØ	200 †				4p☑	DPLØ	R97a
63	EN930	200m	30M§Δ	2.0m	♦J	45	45	5.0	30m	50n	5.0Ø	1.0mØ	600 ☑	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	DPEØ	TO106 A
64#	PL4061	200m	30M§Δ	1.3m	§S	45	45 *	5.0	30m	10n	5.0Ø	10uØ	40 †Δ				8p☑	PLØ	S6
65#	PL4062	200m	30M§Δ	1.3m	§S	45	45 *	5.0	30m	10n	5.0Ø	10uØ	100 †Δ				8p☑	PLØ	S6
66#	PN929	200m	30M§	2.0m	♦J	45	45	5.0	30m	50n	5.0Ø	10uØ	40 Δ				8.0p☑	PL	TO106 A
67#	PN930☑	200m	30M§	2.0m	♦J	45	45	5.0	30m	50n	5.0Ø	10uØ	100 Δ				8.0p☑	PL	TO106 A
68	TD101*	200m	30M§Δ	1.6m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 Δ	200nb☑	32 ☑		8.0p☑	PL*	R138 PL
69	TD102*	200m	30M§Δ	1.6m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 Δ	200n☑b	32 ☑		8.0p☑	PL†	R138 PL
70	TD201*	200m	30M§Δ	1.6m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 Δ	200n☑b	32 ☑		8.0p☑	PL*	R138 PL
71	TD202*	200m	30M§Δ	1.6m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 Δ	200n☑b	32 ☑		8.0p☑	PL†	R138 PN
72	2N3565	200m	40M§Δ	2.0m	♦J	30	25	6.0	50m	50nØ	5.0Ø	1.0mØ	120 Δ	100u☑	20k☑		4.0p☑		R110 A
73	2N4966	200m	40M§Δ	2.0m	♦J	50	40	6.0	30m	25nØ	5.0Ø	1.0mØ	500 ☑	1.0u☑b	32 ☑	6.0 ☑	6.0p$	Ø	TO106 A
74	2N4967	200m	40M§Δ	2.0m	♦J	50	40	6.0	30m	25nØ	5.0Ø	1.0mØ	950 ☑	1.0u☑b	32 ☑	6.0 ☑	6.0p$	Ø	TO106 A
75	2N4968	200m	40M§Δ	2.0m	♦J	30	25	6.0	30m	50nØ	5.0Ø	1.0mØ	500 ☑	1.0u☑b	32 ☑	6.0 ☑	6.0p$	Ø	TO106 A
76	2N5133	200m	40M§Δ	2.0m	♦J	20	18	3.0	50m	.05uØ	5.0Ø	1.0mØ	50 Δ				5p$		TO106 A
77	3N120Ø	200m	40M§Δ	1.3m	§S	30		20	10m	.01u							10p☑		TO72 GCØ
78	3N121Ø	200m	40M§Δ	1.3m	§S	30		20	10m	.01u							10p☑		TO72 GDØ
79	JAN3N127Ø	200m	40M§Δ	2.0m	§J	30		20	20m	10nØ							4.0p☑		TO72 GCØ
80	BC132	200m	40M§Δ	2.0m	♦J	30	25	6.0		.05uØ	5.0Ø	1.0mØ	280	11u	7.5k	3.0	2.2p	PL	R97a
81	CS4003	200m	40M§Δ	2.0m	♦J	30	25	6.0		50nØ	10Ø	8.0mØ	150 †	10u	7.0k	5.0	4.0p☑	E	TO106 A
82	CS4060	200m	40M§Δ	2.0m	♦J	40	40	5.0		10n	5.0Ø	1.0mØ	50 Δ				6.0p☑	Ø	R124b A
83	CS4061	200m	40M§Δ	2.0m	♦J	40	40	5.0		10n	5.0Ø	1.0mØ	250				6.0p☑	Ø	R124b A
84	SE4001	200m	40M§Δ	2.0m	♦J	30	25	6.0		.20uØ	5.0Ø	1.0mØ	280	11u	7.5	3.0	4p☑	DPL	R124b A
85▼#	BSS64	200m	50M§Δ	1.6m	§J	120	80	5.0	100m		1.0Ø	4.0mØ	80 †					PE	X156a A
86	CS4062	200m	50M§Δ	2.0m	♦J	60	60	5.0		10nØ	5.0Ø	1.0mØ	350				6.0p☑	Ø	R124b A
87	TD100*	200m	50M§	1.5m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	350	90nb	26		5.0p	PL*	R138 PN
88	TD200*	200m	50M§	1.6m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	350	90nb	26		5.0p	PL*	R138 PL
89	TD250*	200m	50M§	1.6m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	350	90nb	26		5.0p	PL*	R138 PL
90	2N2453*	200m	60M§Δ	1.1m	§J	60	30	7.0	50m	5.0nØ	5.0Ø	1.0mØ	150 Δ	30u☑	5.0k	6.0 ☑	8.0p☑	*	R131c PA
91	2N2453A*	200m	60M§Δ	1.1m	§J	80	50	7.0	50m	5.0nØ	5.0Ø	1.0mØ	150 Δ	30u☑	5.0k	6.0 ☑	4.0p☑	*	R131c PA
92	2N2903*	200m	60M§Δ	1.1m	§J	60	30	7.0	50m	.01uØ	5.0Ø	1.0mØ	150 Δ	30u☑	1.0k	6 ☑	8p☑	*Ø	R131c PA
93	2N2903A*	200m	60M§Δ	1.1m	§J	60	30	7.0	50m	.01uØ	5.0Ø	1.0mØ	150 Δ	30u☑	1.0k	6 ☑	8p☑	*Ø	R131c PA
94	2N3843	200m	60M§Δ	2.6m	♦S	30	30	4.0	100m	500nØ	4.5Ø	2.0mØ	30 Δ				4.0p☑		TO98 B
95	2N3843A	200m	60M§Δ	2.6m	♦S	30	30	4.0	100m	500nØ	4.5Ø	2.0mØ	20 †Δ				4.0p☑		TO98 B
96#	2SC1515K	200m	60M§Δ	2.0m	♦J	200	150	5.0	50m	100nØ	6.0Ø	10mØ	30 †Δ				10p☑	D△	S8 B
97#	2SC1706H†	200mØ	60M§	1.3m	§J	200	150	5.0	50m	100n	6.0Ø	10mØ	30 †Δ				10p☑	D	TO18 A
98	BC113	200m	60.M§	2.0m	♦J	30	25	6.0		.05uØ	5.0Ø	1.0mØ	330	15u	8.0k	.32	2.0p	DPL	R97a
99	EN2484	200m	60M§Δ	2.0m	♦J	60	60	6.0	50m	.05u	5.0Ø	1.0mØ	900 †#☑	40u☑	24k☑	8 ☑	6p☑	DPEØ	TO106 A
100#	ME4101	200m	60M§Δ	1.6m	§J	60	45 *	5.0		10nØ	5.0	1.0mØ	60 Δ	1.0u☑b	32 ☑	6.0 ☑	3.5p☑	PLØ	R110c A
101#	ME4102	200m	60M§Δ	1.6m	§J	60	45 *	5.0		10nØ	5.0	1.0mØ	150 Δ	1.0u☑b	32 ☑	6.0 ☑	3.5p☑	PLØ	R110c A
102#	ME4104	200m	60M§	1.6m	§J	25	25 *	4.0		50nØ	5.0Ø	1.0mØ	180	12u	15k	20	2.0p	PEØ	R110c A
103	MMCM930	200m	60M§Δ	1.1m	§J	60	45	6.0	50m	10nØ	5.0Ø	100uØ	100 †Δ				6.0p☑	ANØ	W10 C
104	MMCM2484	200m	60M§Δ	1.1m	§J	60	60	6.0	50m	10nØ	5.0Ø	100uØ	175 †Δ				6.0p☑	ANØ	W10 C
105	SA2255Ø	200m	60M§Δ		§J	45	30	7.0		5.0nØ	5.0Ø	50uØ	125 †					PL	TO5
106	SE4002	200m	60M§Δ	2.0m	♦J	30	25	6.0		.20uØ	5.0Ø	1.0mØ	400	15u	15	4.3	4p☑	DPL	R124b A
107	SE4010	200m	60M§Δ	2.0m	♦J	30	25	6.0		.20uØ	5.0Ø	1.0mØ	400	15u	15	4.3	4p☑	DPLØ	R124b A
108#	2SC281	200m	80M§Δ	1.3m	§J	30	20	5.0	100m	100n	6.0Ø	10mØ	170				10p☑	E	TO1 A
109♦#	2SC732	200m	80M§	2.0m	♦J	35	30	5.0	100m	.10uØ	6.0Ø	2.0mØ	200 †Δ*				6.0p	PE	R67a B
110#	2SC1000	200m	80M§		♦J	55	50		100m	100nØ	6.0Ø	2.0mØ	300 †				10p☑	PE	R67a B

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1#	2SC458LG	200m	230M§	2.0m	♦J	30	30	5.0	100m	500nØ	12Ø	2.0mØ	100 †Δ	11u	16k	700m	1.8p	EØ	S8	B
2#	2SC460	200m	230M§			30	30	5.0	100m	.50u	12Ø	2.0mØ	35 †Δ				1.5p	PE		
3#	2SC461	200m	230M§			30	30	5 0	100m	.50u	12Ø	2.0mØ	35 †Δ				1.5p	PE		
4#	2SC536	200m	230M§		♦J	40		5 0	100m	1.0u	6 0Ø	1.0mØ	120 †				3.0p	PLΔ	R145	D
5#	2SC537	200m	230M§		♦J	20		5.0	100m	1.0u	6.0Ø	1.0mØ	120 †				3.0p	PLΔ	R145	D
6#	2SC1335	200m	230M§	2.0m	♦J	30	30	5.0	100m	500nØ	12Ø	2.0mØ	160 †Δ				1.8p	E†	X162a	B
7#	2SC1344	200m	230M§		♦J	30	30	5.0	100m	500nØ	12Ø	2.0mØ	160 †Δ				1.8p	E†	X162a	B
8♦#	2SC1345	200m	230M§	2.0m	♦J	55	50	5.0	100m	500nØ	12Ø	2.0mØ	250 †Δ*				1.8p	E	S8	B
9▼#	2SC1345K	200m	230M§	2.0m	♦J	55	50	5.0	100m	500nØ	12Ø	2.0mØ	250 †Δ*				2.3p	E	S8	B
10	2N3291	200m	250M§Δ	1.1m	§J	25	25 Ø	3.0	50m	100nØ	10Ø	2.0mØ	10 Δ				2.0p☑	Ø	TO72	GØ
11	2N3292	200m	250M§Δ	1.1m	§J	25	25 Ø	3 0	50m	10uØ	10Ø	2.0mØ	10 Δ				2p☑		TO72	GØ
12	2N3293	200m	250M§Δ	1.1m	§J	20	20 Ø	3.0	50m	.10uØ	10Ø	2.0mØ	10 Δ				2p☑		TO72	GØ
13	2N3294	200m	250M§Δ	1.1m	§J	20	20 Ø	3.0	50m	.10uØ	10Ø	2.0mØ	10 Δ				2p☑		TO72	GØ
14	2N4437†	200m	250M§Δ	2 0m	♦J	60	30	5.0	500m	.05u§	10Ø	150mØ	100 †#Δ				8p☑		R124b	A
15	2N5134†	200m	250M§Δ	2.0m	♦J	20	10	3.5	100m	40u§	1 0Ø	10mØ	150 †#☑				4.0p$		TO106	A
16#	2SC380	200m	250M§	2.0m	♦J	35	30	4.0	30m	.50uØ	12Ø	2.0mØ	40 †Δ*				2.0p	PE†	R67a	B
17♦#	2SC380A	200m	250M§	2.0m	♦J	35	30	4.0	30m	100nØ	12Ø	2.0mØ	40 †Δ*				2.0p	PE†	R67a	B
18#	2SC398	200m	250M§Δ	1.6m	$J	20	20	3.0	20m	.05uØ	5.0Ø	4.0mØ	20 †Δ				.5pt☑	PEØ	TO72	G
19#	2SC399	200m	250M§Δ	1.6m	$J	20	20	3.0	20m	.05uØ	5.0Ø	4.0mØ	20 †Δ				.5pt☑	PEØ	TO72	G
20#	2SC724†	200m	250M§	2.0m	♦J	30	20	5.0	200m	50nØ	6.0Ø	2.0m	70				4.0p	PEΔ	R195d	B
21#	2SC725†	200m	250M§	2.0m	♦J	60	50 §	5.0	200m	50nØ	6.0Ø	2.0m	70				4.0p	PEΔ	R195d	B
22#	2SC980AG†	200m	250M§	2.3m	♦J	90	70	5.0	100m	100nØ	1.0Ø	10mØ	140 †☑				3.0p	E	R67a	
23#	2SC980G†	200m	250M§	2.3m	♦J	70	50	5.0	100m	100nØ	1.0Ø	10mØ	240 †☑				3.0p	E	R67a	
24▼#	2SN380A	200m	250M§	2.0m	♦J	35	30	4.0	30m	100nØ	12Ø	2.0mØ	40 †Δ*				2.0p	PE	R67a	A
25	EN2222	200m	250M§Δ	2.0m	♦J	60	30 *☑	5.0	800m	.05uØ	10Ø	.10mØ	35 †Δ				8p☑	DPEΔ	TO106	A
26#	PN107	200m	250M§	2.0m	♦J	50	45	5.0	200m		5.0Ø	2.0 Ø	110 Δ*				4.5p	PL	TO106	A
27#	PN108	200m	250M§	2.0m	♦J	30	20	5.0	200m		5.0Ø	2.0 Ø	110 Δ*				4.5p	PL	TO106	A
28#	PN109	200m	250M§	2.0m	♦J	30	20	5.0	200m		5.0Ø	2 0 Ø	200 Δ*				4.5p	PLØ	TO106	A
29	TD2219*	200m	250M§Δ	1.6m	$J	60	30	5.0	500m	10nØ	10Ø	150mØ	100 †Δ				8.0p☑	PLΔ	R138	PN
30#	BFS19	200m	260M§	1.6m	$J	30	20	5.0	30m	100nØ	10Ø	1.0mØ	65 †Δ				1.0p$	PEØ	X156	A
31	SE4021	200m	260M§	2.0m	♦J	45	45	8.0	50m	2 0nØ	10Ø	1 0mØ	1.0k	74u	28k	23	2.5p$	DPEØ	TO106	A
32	SE4022	200m	280M§	5.0m	♦J	30	30	8.0	50m	2.0nØ	10Ø	1.0mØ	1.6k	120u	39k	33	2.5p$	DPEØ	TO106	A
33	EN744†	200m	282M§Δ	2.0m	♦J	20	12 *☑	5.0	200m	1.0u	.25Ø	1.0mØ	20 †Δ				5p☑	DPE	TO106	A
34	2N3289	200m	300M§Δ	1 1m	§J	30	15	3.0	50m	.01uØ	10Ø	2.0mØ	10 Δ				2p☑	Ø	TO72	GØ
35	2N3290	200m	300M§Δ	1.1m	§J	30	15	3.0	50m	.01uØ	10Ø	2.0mØ	10 Δ				2p☑	Ø	TO72	GØ
36	2N3605†	200m	300M§Δ	2.6m	$S	18	14	5.0	200m	500n	1.0Ø	10mØ	30 †Δ				6.0p☑		TO98	B
37	2N3606†	200m	300M§Δ	2.6m	$S	18	14	5 0	200m	500n	1.0Ø	10mØ	30 †Δ				6.0p☑		TO98	B
38	2N3607†	200m	300M§Δ	2.6m	$S	18	14	5.0	200m	500n	1.0Ø	10mØ	30 †Δ				6.0p☑		TO98	B
39	2N3985	200m	300M§Δ	2.0m	$S	30	12	3.0	30m	100nØ	10Ø	0.0					2.2p$☑	Ø	TO92	B
40	2N5126	200m	300M§Δ	2.0m	♦J	20	20	3.0	30m	.05uØ	10	4.0mØ	15 Δ				1.6p$		TO106	A
41#	BCW31	200m	300M§	1.6m	$J	30	20	5.0	100m	100nØ	5.0Ø	10uØ	90 †				4.0p$☑	PE†	X156	A
42#	BCW31R	200m	300M§	1.6m	$J	30	20	5.0	100m	100nØ	5.0Ø	10uØ	90 †				4.0p$☑	PE†	X156	C
43#	BCW32	200m	300M§	1.6m	$J	30	20	5.0	100m	100nØ	5.0Ø	10uØ	150 †				4 0p$☑	PE†	X156	A
44#	BCW32R	200m	300M§	1.6m	$J	30	20	5.0	100m	100nØ	5.0Ø	10uØ	150 †				4.0p$☑	PE†	X156	C
45#	BCW33	200m	300M§	1.6m	$J	30	20	5.0	100m	100nØ	5.0Ø	10uØ	270 †				4.0p$☑	PE†	X156	C
46#	BCW33R	200m	300M§	1.6m	$J	30	20	5.0	100m	100nØ	5.0Ø	10uØ	270 †				4.0p$☑	PE†	X156	C
47#	BCW46A	200m#	300M§	2.0m	$J	80	60	6.0	100m	10u	5.0Ø	2.0mØ	125 Δ	18u	2.7k	1.5	2.5p$	PEΔ	S4	F
48#	BCW46B	200m#	300M§	2.0m	$J	80	60	6.0	100m	10u	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	2.5p$	PEΔ	S4	F
49#	BCW47A	200m#	300M§	2.0m	$J	50	45	6.0	100m	10u	5.0Ø	2.0mØ	125 Δ	18u	2.7k	1.5	2.5p$	PEΔ	S4	F
50#	BCW47B	200m#	300M§	2 0m	$J	50	45	6.0	100m	10u	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	2.5p$	PEΔ	S4	F
51#	BCW48A	200m#	300M§	2.0m	$J	30	20	5.0	100m	10u	5.0Ø	2.0mØ	125 Δ	18u	2.7k	1.5	2.5p$	PEΔ	S4	F
52#	BCW48B	200m#	300M§	2.0m	$J	30	20	5.0	100m	10u	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	2.5p$	PEΔ	S4	F
53#	BCW48C	200m#	300M§	2.0m	$J	30	20	5.0	100m	10u	5.0Ø	2.0mØ	450 Δ	60u	8.7k	3.0	2.5p$	PEΔ	S4	F
54#	BCW49B	200m#	300M§	2.0m	$J	30	20	5.0	100m	10u	5.0Ø	2 0mØ	240 Δ	30u	4.5k	2.0	2.5p$	PEΔ	S4	F
55#	BCW49C	200m#	300M§	2.0m	$J	30	20	5.0	100m	10u	5.0Ø	2.0mØ	450 Δ	60u	8.7k	3.0	2.5p$	PEΔ	S4	F
56#	BCW71	200m	300M§	1.6m	$J	50	45	5.0	100m	100nØ	5.0Ø	10uØ	90				4.0p$☑	PE	X156	A
57#	BCW71R	200m	300M§	1.6m	$J	50	45	5.0	100m	100nØ	5.0Ø	10uØ	90 †				4.0p$☑	PE†	X156	C
58#	BCW72	200m	300M§	1.6m	$J	50	45	5.0	100m	100nØ	5.0Ø	10uØ	150				4.0p$☑	PE	X156	A
59#	BCW72R	200m	300M§	1.6m	$J	50	45	5.0	100m	100nØ	5.0Ø	10uØ	150 †				4.0p$☑	PE†	X156	C
60#	BF153	200m	300M§Δ	2.0m	♦J	30	12	2.0		.10uØ	6.0Ø	3.0mØ	20 †Δ				1.7p☑	PE	R97a	
61	EN708†	200m	300M§Δ	2.0m	♦J	40	15	5.0		.05uØ	1.0Ø	10mØ	30 †#Δ				6p☑	DPE	TO106	A
62	EN914†	200m	300M§Δ	2 0m	♦J	40	15	5.0		.10uØ	1.0Ø	10mØ	30 †#Δ				6p☑	DPE	TO106	A
63	EN916	200m	300M§Δ	2.0m	♦J	45	25	5.0	50m	50n	1.0Ø	10 Ø	50 †Δ#	75u☑	6.0k☑		6.0p	PE	TO106	A
64	2N3287	200m	350M§Δ	1.1m	§J	40	20	3 0	50m	.01uØ	10Ø	2.0mØ	15 Δ				1p☑	Ø	TO72	GØ
65	2N3288	200m	350M§Δ	1.1m	§J	40	20	3.0	50m	.01uØ	10Ø	2.0mØ	15 Δ				2p☑	Ø	TO72	GØ
66	2N3646†	200m	350M§Δ	2.0m	♦J	40	15	5.0	200m	500n§	.40Ø	30mØ	30 †Δ#				5.0p☑		R110	A
67	2N4134	200m	350M§	1.1m	§J	30	30	3.0	30m	.05uØ	5.0Ø	4.0mØ	200 ☑				1.2p☑	Ø	TO72	G
68	CS4021†	200m	350M§Δ	2.0m	♦J	40	15	5.0		500n§	.40Ø	30mØ	60 †#				3.3p	E	R97a	A
69	EN3009†	200m	350M§Δ	2.0m	♦J	40	15	4.0		.50u§	.40Ø	30mØ	30 †#Δ				5p☑	DPE	TO106	A
70	EN3013†	200m	350M§Δ	2 0m	♦J	40	15	5.0		30u§	.40Ø	30mØ	30 †#Δ				5p☑	DPE	TO106	A
71	EN3014†	200m	350M§Δ	2.0m	♦J	40	15	5.0		.30u§	.40Ø	30mØ	30 †#Δ				5p☑	DPE	TO106	A
72	SE1001	200m	350M§	2.0m	♦J	45	45	4.0		.50uØ	10Ø	10mØ	110	25u	900	1.2	3.5p☑	DPLØ	TO106	
73	SE1002	200m	350M§	2.0m	♦J	45	45	4.0		500nØ	10Ø	10mØ	145	35u	1.1k	1.3	3.5p☑	DPLØ	TO106	
74#	2SC864	200m	360M§Δ	1 6m	$J	40	30	4.0	25m	1nØ	10Ø	7.0mØ	39 †Δ				.23p†	PE	TO72	G
75	2N3564	200m	400M§Δ	2.0m	♦J	30	15	4.0	100m	50nØ	10Ø	15mØ	20 Δ				3.5p☑		R110	A
76	2N3688	200m	400MΔ	2.0m	♦J	40	40	4.0	30m	50uØ	10Ø	4.0mØ	30 †Δ				1.6p☑		R110	A
77	2N3689	200m	400MΔ	2 0m	♦J	40	40	4.0	30m	50uØ	10Ø	4.0mØ	30 †Δ				1.6p☑		R110	A
78	2N3690	200m	400MΔ	2.0m	♦J	40	40	4.0	30m	50uØ	10Ø	4.0mØ	30 †Δ				1.6p☑		R110	A
79	2N3984	200m	400M§Δ	2.0m	$S	30	12	3.0	30m	100nØ	10Ø	0.0					1.6p$☑	Ø	TO92	B
80	2N4274†	200m	400M§Δ	2.0m	♦J	30	12	4.5	100m	10uØ†	1.0Ø	100mØ	18 †#Δ				4p$☑		R110	A
81	2N4275†	200m	400M§Δ	2.0m	♦J	40	15	4.5	100m	10uØ†	1.0Ø	100mØ	18 †#Δ				4p$☑		R110	A
82	2N4294†	200m	400M§Δ	1.6m	$S	30	12	4.5	200m	400nØ	1.0Ø	10mØ	30 †Δ				5.0p☑		X149	B
83#	2SC464	200m	400M§	1.1m	§J	30	12	2.0	20m	500nØ	6.0Ø	1.0mØ	40				850f	PEØ	R103a	G
84#	2SC752G†	200m	400M§	2.0m	♦J	40	15	5.0	200m	.25uØ	1.0Ø	10mØ	20 †Δ*				4.0p	PE†	R67a	B
85#	BFR28	200m	400M§Δ	1.2m	§J	30	20	3.0	50m	20nØ	5.0Ø	5.0mØ	30 †Δ				950ft☑	PEØ	W71	A
86#	BFX18	200m	400M§Δ	1.1m	§J	35	35	4.0		50nØ	12Ø	3.0mØ	20 †Δ					PL	TO118	G
87#	BFX19	200m	400M§Δ	1.1m	§J	35	35	4.0		50nØ	12Ø	3.0mØ	20 †Δ					PL	TO72	
88#	BFX20	200m	400M§Δ	1.1m	§J	35	35	4.0		50nØ	12Ø	3.0mØ	20 †Δ					PL	TO118	G
89#	BFX21	200m	400M§Δ	1 1m	§J	35	35	4.0		50nØ	12Ø	3.0mØ	20 †Δ					PL	TO118	G
90#	BSV52†	200m	400M§Δ	1.6m	$J	20	12	5.0	100m	100nØ	1.0Ø	10mØ	40 †				4 0p$☑	PE	X156	A
91	EN3011†	200m	400M§Δ	2.0m	♦J	30	30 Ø	5.0		.4u§Ø	.35Ø	10mØ	30 †#Δ				4p☑	DPE	TO106	A
92▼	MPS4274†	200m	400M§Δ	2 0m	♦J	30	12 ☑*	4.5	500m	10uØ†	10Ø	10mØ	4.0 Δ				4.0p$☑		TO92	A
93▼	MPS4275†	200m	400M§Δ	2.0m	♦J	40	15 ☑*	4.5	500m	10uØ†	10Ø	10mØ	4.0 Δ				4.0p$☑		TO92	A
94	2N4135	200m	425M§	1.1m	§J	30	30	3.0	30m	.05uØ	5.0Ø	4.0mØ	200 ☑				1.2p☑	Ø	TO72	G
95	2N5130	200m	450M§Δ	2.0m	♦J	30	12	1 0	50m	.05uØ	10Ø	8.0mØ	12 Δ				1.7p$		TO106	A
96#	BFS20	200m	450M§	1 6m	$J	30	20	4.0	25m	100nØ	10Ø	7.0mØ	85 †				800f$	PE	X156	A
97#	BFS20R	200m	450M§	1.6m	$J	30	20	4.0	25m	100nØ	10Ø	7 0mØ	85 †				350ft	PE†	X156	C
98	2N917	200m	500M§Δ	1.1m	§J	30	15	3.0		1.0nØ	1.0Ø	3 0mØ	20 †#Δ				1.7p☑	Ø	TO72	G
99	2N3983	200m	500M§Δ	2.0m	$S	30	12	3.0	30m	100nØ	10Ø	0.0					1.6p$☑	Ø	TO92	B
100	2N4295†	200m	500M§Δ	1.6m	$S	40	15	5.0	200m	100nØ	1.0Ø	100mØ	40 †Δ				4.0p☑		X149	B
101#	2SC384	200m	500M§	2.0m	♦J	20	18	2.0	50m	.50uØ	6 0Ø	1.0m	50 †*				1.2p	PE	R67a	B
102#	2SC933†	200m	500M§		♦J	50	30	5.0	300m	1.0u	5.0Ø	20mØ	100 †					PE	TO104	
103#	2SC934†	200m	500M§		♦J	20	15	5.0	300m	1.0u	5.0Ø	20mØ	100 †					PE	TO104	
104#	BF233-2	200m	500M§	2.0m	♦J	30	30	4.0	50m	100u	10Ø	1 0mØ	40				500ft	PE	TO106	
105#	BF233-3	200m	500M§	2.0m	♦J	30	30	4.0	50m	100u	10Ø	1.0mØ	60				500ft	PE	TO106	
106#	BF233-4	200m	500M§	2.0m	♦J	30	30	4.0	50m	100n	10Ø	1.0mØ	90				500ft	PE	TO106	
107#	BF233-5	200m	500M§	2.0m	♦J	30	30	4.0	50m	100n	10Ø	1.0mØ	140				500ft	PE	TO106	
108#	BF233-6	200m	500M§	2.0m	♦J	30	30	4.0	50m	100n	10Ø	1.0mØ	200				500ft	PE	TO106	
109#	BSV52R†	200m	500M§	1 6m	$J	20	12	5.0	100m	100nØ	1.0Ø	10mØ	40 †Δ				4.0p$☑	PE†	X156	C
110	D16G6	200m	500M§Δ	2.6m	♦J	30	12	3.0	25m	500n	10Ø	5.0mØ	20 †Δ				1.2p	PE	TO98	B

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 DERATE IN FREE AIR W/°C	fab (Hz)	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1#	2SC387A	200m	1.2G§	2.0m	♦J	30	15	3.0	50m	500nØ	3.0Ø	8.0mØ	20 †Δ*				1.5p☑	PE†	R67a B
2#	2SC809	200m	1.2G§	1.6m	§J	25	13	3.0	20m	100nØ	6.0Ø	2.0m	90		40		1.4p	PE	TO72 GØ
3#	2SC1215	200m	1.2G§	2.0m	♦J	30	20	3.0	50m	100u	10	2.0m	25 †Δ				1.0pt	PE	TO92 B
4	40295	200m	1.2G§☑	1.1m	§J	35	20	3.0	40m	.01uØ	2.0Ø	2.0mØ	200 †☑				1p$☑	PEØ	TO72 G
5	SCA3021	200m	1.2G§	1.1m	§J	30	20	2.0	50m	20nØ							700f$☑	PE	TO72 G☑
6	SCA3023	200m	1.2G§	1.1m	§J	35	25	2.0	50m	20nØ							700f$☑	PE	TO72 G☑
7	SCA3242	200m	1.2G§	1.1m	§J	45	45	4.5	50m	20nØ	6.0Ø	1.0mØ	170 †☑				600f$	PL	TO72 G☑
8	SCA3245	200m	1.2G§	1.1m	§J	45	45	4.5	50m	20nØ	6.0Ø	1.0mØ	275 †☑				600f$	PL	TO72 G☑
9	2N3953	200m	1.3G§Δ	1.1m	§S	15		2.5	30m	.10uØ	6.0Ø	2.0mØ	40 Δ				1.8p☑	Ø	TO72 G
10	2N5024	200m	1.3G§Δ	1.1m	§J	20	10	4.0	15m	.10u#	1.0Ø	10m	25 †Δ				1.5p$	Δ	TO72 G
11	2N5053	200m	1.3G§Δ	1.1m	§S	30	15	3.0	25m	.01uØ	5.0Ø	2.0mØ	25 Δ				1p$☑	Ø	TO72 GØ
12#	2SC568	200m	1.3G§		§J	30	15 Ø	3.0	20m	.50uØ	6.0Ø	2.0m	80				.65p	PE	TO72 G
13#	2SC583	200m	1.3G§		§J	30	15	2.5	25m		1.0Ø	2.0mØ	25 †Δ				800ft	PE	TO72 J
14#	2SC612	200m	1.3G§	1.3mØ		35	15 Ø	2.0	20m	1.0uØ	10Ø	2.0m	80				2p☑	PE	TO72
15#	BFS17	200m	1.3G§	1.6m	§J	25	15	2.5	25m	10nØ	1.0Ø	25mØ	20 †				1.5p$☑	PEØ	X156 A
16	BFS17R	200m	1.3G	1.6m	§J	25	15	2.5	25m	10nØ	1.0Ø	2.0mØ	20 †Δ				1.5p$☑	PE†Ø	X156 C
17	K2071	200m	1.3G§Δ	1.1m	§J	30	12	2.0	25m	300nØ	1.0Ø	3.0mØ	30 Δ				750f$☑	Ø	TO72 G
18	2N6304	200m	1.4G§Δ	1.1m	§S	30	15	3.5	50m	10nØ	5.0Ø	2.0mØ	25 Δ				1.0p$☑	Ø	TO72 G
19#	2SC653	200m	1.4G§	1.6m	§J	25	13	3.0	20m	100nØ	6.0Ø	2.0m	120		60		600f	E	TO72 G
20	2N3570	200m	1.5G§Δ	1.1m	§S	30	15	3.0	50m	.01uØ	6.0Ø	5.0mØ	20 Δ					PEØ	TO72 G
21	2N5054	200m	1.5G§Δ	1.1m	§S	30	15	3.0	25m	.01uØ	5.0Ø	2.0mØ	25 Δ				1p$☑	Ø	TO72
22	K2070	200m	1.5G§Δ	1.1m	§J	30	12	2.0	25m	300nØ	1.0Ø	3.0mØ	30 Δ				750f$☑	Ø	TO72 G
23	TIXS10	200m	1.5G§	1.1m	§S	25	13	3.0	50m	.01u	6.0Ø	5.0mØ	20 Δ				1.7p☑	PE	W5 F
24	2N4934	200m	1.6G§☑	1.1m	§S	40	30	3.0		.01uØ	8.0Ø	2.0mØ	170 †☑				.25p$	Ø	TO104 J
25	2N4935	200m	1.6G§☑	1.1m	§S	50	40	3.0		.01uØ	8.0Ø	2.0mØ	200 †☑				.25p$	Ø	TO104 J
26	2N4936	200m	1.6G§☑	1.1m	§S	50	40	3.0		.01uØ	8.0Ø	2.0mØ	250 †☑				25p$	Ø	TO104 J
27♦#	2SC1789	200m	1.6G§☑	2.0m	♦J	25	18	3.0	50m		10Ø	2.0mØ	20 Δ†				1.0pt	PE	TO92 B
28▼#	BF689K	200m☑	1.8G§	2.8m	♦J	25	15	3.5	25m	50n	5.0Ø	2.0mØ	20 Δ†				800ft	PE	R191 E
29	K2069	200m	1.8G§Δ	1.1m	§J	30	12	2.0	25m	300nØ	1.0Ø	3.0mØ	30 Δ				750f$☑	Ø	TO72 G
30	2N2857	200m	1.9G§☑	1.1m	§S	30	15	2.5	40m	.01uØ	6.0Ø	2.0mØ	50 Δ				1p$☑	Ø	TO72 G
31	2N3839	200m	2.0G§☑	1.1m	§S	30	15	2.5	40m	.01uØ	1.0Ø	3.0mØ	30 †Δ				1p☑	Ø	TO72 G
32♦#	2SC1733*	200m	2.0G§	1.1m	§J	30	14	3.0	50m	50nØ	10Ø	10mØ	80 †				1.1p	E	R120 RE
33#	2SC1926*	200m	2.0G§	1.1m	§J	30	14	3.0	50m	50n§Ø	10Ø	10mØ	80 †				1.1p	EΔ	W109 RA
34#	2SC1927*	200m	2.0G§	1.1m	§J	30	14	3.0	50m	50n§Ø	10Ø	10mØ	80 †				1 1p	EΔ	W109 RB
35	40296	200m	2.0G§☑	1.1m	§J	30	15	2.5	40m	.01uØ	6.0Ø	2.0mØ	220 ☑				1p$☑	PEØ	TO72 G
36	MMT8015	200m	2.0G§	2.0m	†J	15	10	3.0	20m	10nØ	6.0Ø	1.0mØ	25 †Δ				500f	Ø	W6 C
37	2N5835	200m	2.5G§Δ	1.1m	§S	15	10	3.5	15m	10nØ	6.0Ø	10mØ	25 †Δ				800f$☑	Δ	TO72 AØ
38	SD1303	200m	2.5G§Δ	1.1mØ	§J	30	15	3.5	50m	10u	6.0Ø	5.0mØ	30 †Δ						TO72 G
39	40915	200mØ	2.9G§	1.1m	§J	35	15	3.5	40m	20n♦	10Ø	3.0mØ	20 †Δ				1.0p☑	PE	TO72 G
40♦#	2SC1731*	200m	3.0G§	1.1m	§J	20	12	3.0	50m	100nØ	5.0Ø	10mØ	30 †Δ				1.1p	E	W109 RE
41♦#	2SC1732*	200m	3.0G§	1.1m	§J	20	12	3.0	50m	50nØ	5.0Ø	10mØ	30 †Δ				900f	E	W109 RE
42#	2SC1924*	200m	3.0G§	1.1m	§J	20	12	3.0	50m	100nØ	5.0Ø	10mØ	30 †Δ				1.1p	EΔ	W109 RA
43#	2SC1925*	200m	3.0G§	1.1m	§J	20	12	3.0	50m	100nØ	5.0Ø	10mØ	30 †Δ				1.1p	EΔ	W109 RB
44#	BFW99	200m☑	3.0G§	1.4m	§J		12	3.5	20m	50nØ	6.0Ø	5.0mØ	25 †Δ				1.1p	PEØ	TO72 J
45	2N6595	200m☑	3.5G§Δ	1.4m	§S	20	15	2.0	25m	100u	10Ø	14mØ	25 Δ				700p$☑	Ø	TO72 G
46	2N6597	200m☑	3.5G§Δ	1.4m	§S	15	12	2.0	35m	100u	5.0Ø	30mØ	25 Δ				1.1p$☑	Ø	TO72 G
47	AT0017	200m	3.5G§	1.1m	§J	20	12	3.0	100m	10nØ	10Ø	5.0mØ	75 †				800f$	PEØ	R176a G
48	AT0025	200m	3.5G§	1.1m	§J	20	15	3.0	100m	20nØ	10Ø	10mØ	75 †				500f$☑	PEØ	R176a G
49	AT0025A	200m	3.5G§	1.1m	§J	20	15	3.0	100m	20nØ	10Ø	10mØ	75 †				500f$☑	PEØ	R176a G
50	AT0045	200m	3.5G§	1.1m	§J	20	15	3.0	100m	20nØ	10Ø	10mØ	75 †				500f$☑	PEØ	R176a G
51	2N6596	200m☑	4.0G§Δ	1.4m	§S	20	15	2.0	25m	100u	10Ø	14mØ	25 Δ				700p$☑	Ø	TO72 G
52	2N6598	200m☑	4.0G§Δ	1.4m	§S	15	12	2.0	35m	100u	5.0Ø	30mØ	25 Δ				1.1p$☑	Ø	TO72 G
53▼#	BFQ28	200m♦	4.0G§	4.0mØ	§J	20	15	1 5	15m	1.0u	10Ø	10mØ	20 Δ†				250ft	PE	W69b Y
54#	BFT66	200m§	4.0G§	1.4m	§J	20	15	3.0	30m	50nØ	6.0Ø	10mØ	30 †Δ				600f$	PEØ	TO72 J
55#	BFT67	200m§	4.0G§	1.4m	§J	20	15	3.0	30m	50nØ	6.0Ø	10mØ	30 †Δ				600f$	PEØ	TO72 J
56#	DC5001	200m	4.0G§	1.6m	§J	20	15	4.0	20m	500nØ			40				450f	PLØ	W75 R
57	MRF904	200m	4.0G§	1.1m	§S	25	15	3.0	30m	50nØ	5.0Ø	5.0mØ	30 †Δ				1.0p$☑	Ø	TO72 G
58#	BFR34A	200m	4.2G§	1.5m	♦J		12	3.5	30m	50n	6.0Ø	5.0mØ	70				750f$	PEØ	W22 E
59#	BFR35A	200m	4.2G§	1.2m	♦J		12	3.5	30m	50n	6.0Ø	5.0mØ	70				700f$	PEØ	X156a A
60♦#	BFT75	200m	4.3G§	2.0m	♦J	20	15	2.5	50m	50nØ	5.0Ø	50mØ	30 †Δ				800f	PL	X156c A
61#	BFR15A	200m§	4.5G§	2.5m	§J		12	2.5	30m	50n	6.0Ø	20mØ	25 †Δ					PL	TO72 C
62	MRF914	200m§	4.5G§	1.6m	§S	20	12	3.0	40m	50nØ♦	10Ø	20mØ	30 †Δ				700f$	Ø	TO72 G
63	A400	200m	5.0G§	1.4m	§J	20	15	2.0	25m	50nØ	10Ø	14mØ	50 †#				600f$	PE	TO72 G
64	A401	200m	5.0G§	1.4m	§J	15	12	2.0	35m	50nØ	5.0Ø	30mØ	50 †#				1.0p$	PE	TO72 G
65▼	MMBR920	200m	5.0G§	2.0m	§S	20	15 §	3.0		50nØ	10Ø	14mØ	25 †Δ				500f$		X156d A
66#	FT5720R*	200m	5.5G§	1.3m	§J	15	10	3.0	40m	500nØ	6.0Ø	20mØ	80 †				650f$	PEΔ	W84 QE
67#	FT5726CR*	200m	5.5G§	1.3m	§J	15	10	3.0	40m	500nØ	6.0Ø	20mØ	80 †				650f$	PEΔ	W85 QF
68#	FT5728CR*	200m	5.5G§	1.3m	§J	15	10	3.0	40m	500nØ	6.0Ø	20mØ	80 †				650f$	PEΔ	W85 QH
69#	2SC1236	200m	6.5G§		§J	20	15	2.0	30m	100nØ	10Ø	10mØ	70 †				1.0p☑	PE	
70#	2SC1551	200m	6.5G§		§J	20	15	2.0	30m	100nØ	10Ø	10mØ	70 †				1.0p☑	EP	W69 C
71#	FT1717R*	200m	7.0G§	1.3m	§J	20	13	3.0	20m	500nØ	8.0Ø	7.0mØ	80 †				150f$	PEΔ	W82 V
72#	2SC1711A*	200m	7.5G§	1.3m	§J	20	13	3.0	30m	500nØ	8.0Ø	10mØ	80 †				250f$	PEΔ	W82 V
73#	2SC1712*	200m	8.0G§	1.3m	§J	16	8.0	3.0	30m	500nØ	3.0Ø	10mØ	80 †				300f$	PEΔ	W82 V
74#	2SC1713*	200m	8.0G§	1.3m	§J	16	8.0	3.0	30m	500nØ	3.0Ø	10mØ	80 †				450f$	PEΔ	W84 QE
75#	2SC1714*	200m	8.0G§	1.3m	§J	16	8.0	3.0	30m	500nØ	3.0Ø	10mØ	80 †				450f$	PEΔ	W85 QF
76#	2SC1715*	200m	8.0G§	1.3m	§J	16	8.0	3.0	30m	500nØ	3.0Ø	10mØ	80 †				450f$	PEΔ	W85 QG
77#	2SC1716*	200m	8.0G§	1.3m	§J	16	8.0	3.0	30m	500nØ	3.0Ø	10mØ	80 †				450f$	PEΔ	W85 QH
78	AT4641	200mØ	8.0G§	1.1m	§J	20	12	1.5	50m	20nØ	10Ø	5.0mØ	75 †				500f$☑	PEØ	W26 C
79#	FT1720AR*	200m	8.0G§	1.3m	§J	20	10	3.0	20m	500nØ	6.0Ø	10mØ	100 †				300f$	PE	W82 V
80#	FT1720R*	200m	8.0G§	1.3m	§J	20	10	3.0	20m	500nØ	6.0Ø	10mØ	100 †				300f$	PE	W82 V
81#	2SC1812	210m	1.0G§		#J	22	22	3.0	20m	200nØ	10Ø	3.0mØ	20 †Δ				300ft	E†	
82#	BSW19†	215m*	300M§Δ	1.7m	§J	35	30	5.0	100m	.05uØ	1.0Ø	10mØ	40 †Δ				6pØ	PE	TO18 AØ
83	2N5136	220m	40M§Δ	2.2m	♦J	30	20	3.0	500m	.10uØ	1.0Ø	150mØ	20 †#Δ				35p$		TO105 A
84	EN870	220m	50M§Δ	2.1m	♦J	100	60	7.0		100nØ	5.0Ø	1.0mØ	175 Δ	500nØb	30 ☑	1.3 ☑	20pØ	DPL	TO106 A
85	2N4944	220m	60M§Δ	2.2m	♦J	80	40	5.0	500m	.05uØ	1.0Ø	150mØ	40 †#Δ				25p$		TO106 A
86	2N4945	220m	60M§Δ	2.2m	♦J	80	60	5.0	500m	.05uØ	1.0Ø	150mØ	40 †#Δ				20p$		TO106 A
87	2N4946	220m	60M§Δ	2.2m	♦J	80	40	5.0	500m	.05uØ	1.0Ø	150mØ	100 †Δ				25p$		TO106 A
88	EN718A	220m	60M§Δ	2.1m	♦J	75	40 *☑	7.0		50nØ	5.0Ø	1.0mØ	25 Δ	500nØb	34 ☑	5.0 ☑	25pØ	DPL	TO106 A
89	EN871	220m	60M§Δ	2.1m	♦J	100	60	7.0		100nØ	5.0Ø	1.0mØ	400 Δ	500nØb	30 ☑	5.0 ☑	20pØ	DPL	TO105 A
90	EN956	220m	70M§Δ	2.1m	♦J	75	40 *☑	7.0		50nØ	5.0Ø	1.0mØ	50 Δ	500nØb	34 ☑	5.0 ☑	25pØ	DPL	TO106 A
91#	BSV86†	220m#	100M§Δ	2.2m	§J	75	30	7.0	400m	100nØ	10Ø	10mØ	75 †Δ				25p$☑	PE	S4 F
92#	BSV87†	220m#	100M§Δ	2.2m	§J	60	30	7.0	400m	100nØ	10Ø	10mØ	35 †Δ				25p$☑	PE	S4 F
93#	BSV88†	220m#	100M§Δ	2.2m	§J	60	25	5.0	400m	100nØ	10Ø	10mØ	35 †Δ				25p$☑	PE	S4 F
94#	BF195	220m	200M§	2.2m	♦J	30	20	5.0	30m		10Ø	1.0mØ	67 †				950ft	PEØ†	S1 C
95#	BF255Δ	220m	200M§	2.2m	♦J	30	20	5.0	30m		10Ø	1.0mØ	67 †				950ft	PEØ	R204 C
96#	PL4051†	220m	250M§Δ	1.5m	§S	60	30	5.0	800m	10nØ	10Ø	1.0mØ	12 †Δ				8pØ	PE	S6
97#	PL4052†	220m	250M§Δ	1.5m	§S	75	40	6.0	800m	10nØ	10Ø	1.0mØ	30 Δ				8pØ	PEØ	S6
98#	PL4053†	220m	250M§Δ	1.5m	§S	60	30	5.0	800m	10nØ	10Ø	1.0mØ	25 †Δ				8pØ	PE	S6
99#	PL4055†	220m	250M§Δ	1.5m	§S	60	30	5.0	800m	10nØ	10Ø	1.0mØ	50 †Δ				8pØ	PE	S6
100#	BF194	220m	260M§	2.2m	♦J	30	20	5.0	30m		10Ø	1.0mØ	115 †				950ft	PEØ†	S1 C
101#	PL4054†	220m	300M§Δ	1.5m	§S	75	40	6.0	800m	10nØ	10Ø	1.0mØ	50 Δ				8pØ	PEØ	S6
102	MMT70	225m		2.0m	†J	25	20	5.0	50m	50nØ	5.0Ø	2.0mØ	150 †Δ				8.0pØ	ANØ	W6 C
103	MMT76†	225m		2.0m	†J	30	20	5.0	200m	100nØ	1.0Ø	50mØ	30 †Δ				5.0pØ	ANØ	W6 C
104#	BC429	225m	.50M	2.2m	§J	60	60	30	50m	.10uØ	6.0Ø	1.0mØ	10 Δ	30u	1.0k	3.0	45p	AØ	TO5
105	MMT930	225m	60M§Δ	2.0m	†J	60	45	6.0	50m	10nØ	5.0Ø	1.0mØ	150 †Δ				6pØ	ANT†Ø	W6 C
106	MMT2484	225m	60M§Δ	2.0m	†J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	250 †Δ				6pØ	ANT†Ø	W6 D
107	PET8005	225m	200M§	2.3m	♦J	30	30	4.0	100m	.05uØ	10Ø	2.0mØ	30 †Δ					PL	R110 A
108	PET8006	225m	200M§	2.3m	♦J	30	30	4.0	100m	.05uØ	10Ø	2.0mØ	55 †Δ					PL	R110 A
109	PET8007	225m	200M§	2.3m	♦J	30	30	4.0	100m	.05uØ	10Ø	2.0mØ	100 †Δ					PL	R110 A
110	MMT3903	225m	250M§Δ	1.8m	§J	60	40	6.0	200m	50nØ	1.0Ø	10mØ	50 †#Δ				4.0pØ	ANØ	W6a C

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N3052†	250m	200M§△	1.6m	§S	35	15	5.0	200m	25nØ	1 0Ø	10mØ	25 †△				8.0pØ	*	TO89	PB
2	2N3825	250m	200M§△	2.5m	§S	30	15	4.0	100m	100nØ	10Ø	2 0mØ	20 †△				3.5pØ	Ø	TO92	B
3#	2SC123	250m	200M§	1.7m	§J	40	25	1.0	25m	1 0uØ	10Ø	1.0m	140				4.0p	PL	TO39	
4#	2SC395A†	250m	200M§△	2.0m	§J	20	12	5.0	400m	1.0uØ	1.0Ø	10mØ	60 †				4.0p	PE	TO18	AØ
5#	2SC714†	250m	200M§	2.5m	♦J	70	40	5.0	200m	.10uØ	6.0Ø	10mØ	60 †#				7.0p	PE†	TO92	D
6#	2SC815	250m	200M§	2 5m	♦J	60	45	5.0	200m	100nØ	1.0Ø	50mØ	80 †*				5.5p	E	R182b	B
7#	2SC815S	250m	200M§	2.5m	♦J	60	45	5.0	200m	100nØ	1.0Ø	50mØ	80 *†#				5.5p	E	TO92	B
8#	2SC944†	250m	200M§△	2.5m	♦J	60	40	8.0	100m	100n	10Ø	2 0mØ	60 †△				3.0pØ	PE	TO92	B
9#	2SC963	250m	200M§	1.6m	§J	35	25	4.0	50m	2 0uØ	6.0Ø	1.0m	100		50		2.0p	PE	R213	A
10♦#	PD1001	250m	200M§△	2.5m	♦J	45	45 $	45 $		200nØ	5 0Ø	2.0mØ	30 †△	25u	900	1.2	3.5pØ	PL	R110c	A
11♦#	PD1002	250m	200M§△	2 5m	♦J	45	45 $	4.0		200nØ	5.0Ø	2.0mØ	135 †△	35u	1.1k	1.2	3.5pØ	PL	R110c	A
12#	PE1003	250m	200M§△	2.5m	♦J	35	35 Ø$	4.0		200nØ	5.0Ø	2.0mØ	30 †△				3.0pØ	PE	R110c	A
13#	PE1007A	250m	200M§△	2.5m	♦J	50	50 Ø$	4.0		200nØ	5.0Ø	2.0mØ	120 †△				3.0pØ	PE	R110c	A
14#	PE1008A	250m	200M§△	2.5m	♦J	35	35 Ø$	4.0		200nØ	5.0Ø	2.0mØ	120 †△*				3.0pØ	PE	R110c	A
15#	PE1008B	250m	200M§△	2.5m	♦J	35	35 Ø$	4.0		200nØ	5.0Ø	2.0mØ	200 †△*				3.0pØ	PE	R110c	A
16#	PE1008C	250m	200M§△	2.5m	♦J	35	35 Ø$	4.0		200nØ	5.0Ø	2.0mØ	420 †△				3.0pØ	PE	R110c	A
17	2SC105	250m	250M§	1.7m	§J	30	30 §	5.0	80m	5nØ	1.0Ø	10m	60 †				4.0p	PE	TO18	
18#	2SC323	250m	250M§	1.7m	§J	40	20	5.0	100m	1.0uØ	1.0Ø	10mØ	90 †				3.0p	PE	TO18	
19#	2SC619†	250m	250M§	2.5m	♦J	30	25	5.0	200m	1 0uØ	6.0Ø	10mØ	110 †#				7.0p	PE†	TO92	D
20#	2SC620	250m	250M§	2.5m	♦J	50	30	5.0	200m	1.0uØ	6.0Ø	10mØ	90 †#				7.0p	PE†	TO92	D
21#	2SC773	250m	250M§	2.5m	♦J	50	30	5.0	200m	1.0uØ	6.0Ø	10mØ	35 †#△				7.0p	PE†	TO92	D
22#	2SC838	250m	250M§	2.5m	♦J	50	25	5.0	30m	200nØ	3.0Ø	500uØ	75 †				1.8p		TO92	B
23#	2SC839	250m	250M§	2.5m	♦J	50	25	5.0	50m	100nØ	3.0Ø	500uØ	100 †*				2.0p	EØ	R182b	B
24#	2SC944St	250m	250M§	2 5m	♦J	60	40	8.0	100m	100nØ	10Ø	2.0mØ	180 *†				2.2p	E	TO92	B
25♦#	2SC945	250m	250M§	2.5m	♦J	60	50	5.0	100m	100n	6.0Ø	1.0mØ	200 *	18u	6.0k	6.0	3.5p	E	R182b	B
26♦#	2SC945L	250m	250M§	2.5m	♦J	60	50	5 0	100m	100n	6.0Ø	1.0mØ	200 *	18u	6.0k	6.0	3.5p	E	TO92	B
27#	2SC1675K	250m	250M§	2.5m	♦J	50	30	5.0	30m	100n	6.0Ø	1.0mØ	90 †△*				1.9p	EØ	R182b	B
28#	2SC1675L	250m	250M§	2.5m	♦J	50	30	5 0	30m	100n	6.0Ø	1.0mØ	60 †△*				1 9p	EØ	R182b	B
29#	2SC1675M	250m	250M§	2.5m	♦J	50	30	5 0	30m	100n	6.0Ø	1.0mØ	40 †△*				1.9p	EØ	R182b	B
30#	BC122	250m	250M§	1.0m	§J	30	20	5.0	75m	10nØ	.50Ø	250uØ	150 Ø				7.0pØ	PEØ	X151	D
31#	BC123	250m	250M§	1.0m	§J	45	30	5 0	75m	10nØ	.50Ø	250uØ	150 Ø				7.0pØ	PEØ	X151	D
32	BC413	250m	250M§	2.5m	♦J	45	30	5.0	100m	15nØ	5.0Ø	2 0mØ	240 △				2.5p	PL	TO106	A
33	BC414	250m	250M§	2.5m	♦J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	240 △				2.5p	PL	TO106	A
34#	BF594	250m	260M§	2 0m	$S	35	25	5 0	30m		10Ø	1 0mØ	65 †△				600ft	PEØ	R203c	C
35#	BF595	250m	260M§	2.0m	$S	35	25	5.0	30m		10Ø	1.0mØ	35 †△				600ft	PEØ	R203c	C
36#	2SC400†	250m	300M§	1.7m	§J	30	18	5.0	100m	50uØ	10Ø	10m	30 †△*				4 0p	PE	TO18	AØ
37♦#	2SC1359	250m	300M§	2.5m	♦J	30	20	5.0	100m#	100nØ	10	1.0 Ø	220 Ø†				900ft	PE	TO92	B
38	BC407	250m	300M§	2.5m	♦J	50	45	6.0	100m	15uØ†	5.0Ø	2.0mØ	110 †△				2.5p$	†	TO106	A
39#	BC407A	250m	300M§	2.5m	♦J	50	45	6.0	100m	15uØ†	5.0Ø	2.0mØ	220	18u	2.7k	1.5	2.5p$	PE	TO106	A
40#	BC407B	250m	300M§	2.5m	♦J	50	45	6 0	100m	15uØ†	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PE	TO106	A
41	BC408	250m	300M§	2.5m	♦J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	110 †△				2.5p$	†	TO106	A
42#	BC408A	250m	300M§	2.5m	♦J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	220	18u	2.7k	1.5	2.5p$	PE	TO106	A
43#	BC408B	250m	300M§	2.5m	♦J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PE	TO106	A
44#	BC408C	250m	300M§	2.5m	♦J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	600	60u	8.7k	3.0	2.5p$	PE	TO106	A
45	BC409	250m	300M§	2.5m	♦J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	200 †△				2.5p$	†	TO106	A
46#	BC409B	250m	300M§	2.5m	♦J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PE	TO106	A
47#	BC409C	250m	300M§	2.5m	♦J	30	20	5 0	100m	15uØ†	5.0Ø	2.0mØ	600	60u	8.7k	3.0	2.5p$	PE	TO106	A
48#	ME9021†	250m	300M§△	2.0m	§J	40	15 *	5.0		5.0uØ	1.0Ø	10mØ	30 †△				6.0pØ	PE	R110c	A
49#	ME9022†	250m	300M§△	2.0m	§J	25	12 *	4.0		5.0uØ	1.0Ø	10mØ	30 †△				6.0pØ	PE	R110c	A
50#	PE1004	250m	300M§△	2.5m	♦J	35	35 Ø$	4.0		200nØ	5.0Ø	2.0mØ	135 †△				3.0pØ	PE	R110c	A
51#	PE1007B	250m	300M§△	2.5m	♦J	50	50 Ø$	4.0		200nØ	5.0Ø	2.0mØ	200 †△				3.0pØ	PE	R110c	A
52	SE5025	250m	300M§△	2.5m	♦J	30	30	3.0		.05u	10Ø	10mØ	35 †#				1ptØ	DPE	R97e	
53	TIS64	250m	300M§△	2.0m	$J	30	12	3.0	30m	.10uØ	10Ø	4.0mØ	20 †△				2pØ	PL	R203	A
54#	SC107	250m	330M§	2.0m	$J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	120 †△				4.5p$Ø	DPE	X149	B
55#	SC107A	250m	330M§	2.0m	$J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	110 †△				4.5p$Ø	DPE	X149	B
56#	SC107B	250m	330M§	2.0m	$J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	200 †△				4.5p$Ø	DPE	X149	B
57#	SC108	250m	330M§	2.0m	$J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	120 †△				4.5p$Ø	DPE	X149	B
58#	SC108A	250m	330M§	2.0m	$J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	110 †△				4.5p$Ø	DPE	X149	B
59#	SC108B	250m	330M§	2.0m	$J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	200 †△				4.5p$Ø	DPE	X149	B
60#	SC108C	250m	330M§	2.0m	$J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	420 †△				4.5p$Ø	DPE	X149	B
61#	SC109	250m	330M§	2.0m	$J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	220 †△				4.5p$Ø	DPEØ	X149	B
62#	SC109B	250m	330M§	2.0m	$J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	200 †△				4.5p$Ø	DPEØ	X149	B
63#	SC109C	250m	330M§	2.0m	$J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	420 †△				4.5p$Ø	DPEØ	X149	B
64#	SC147	250m	330M§	2.0m	$J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	120 †△				4.5p$Ø	DPE	X149	A
65#	SC147A	250m	330M§	2.0m	$J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	110 †△				4.5p$Ø	DPE	X149	A
66#	SC147B	250m	330M§	2.0m	$J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	200 †△				4.5p$Ø	DPE	X149	A
67#	SC148	250m	330M§	2 0m	$J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	120 †△				4.5p$Ø	DPE	X149	A
68#	SC148A	250m	330M§	2.0m	$J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	110 †△				4.5p$Ø	DPE	X149	A
69#	SC148B	250m	330M§	2.0m	$J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	200 †△				4.5p$Ø	DPE	X149	A
70#	SC148C	250m	330M§	2.0m	$J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	420 †△				4.5p$Ø	DPE	X149	A
71#	SC149	250m	330M§	2.0m	$J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	220 †△				4.5p$Ø	DPE	X149	A
72#	SC149B	250m	330M§	2.0m	$J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	200 †△				4.5p$Ø	DPE	X149	A
73#	SC149C	250m	330M§	2.0m	$J	64	64	5.0	100m	15nØ	5.0Ø	2.0mØ	420 †△				4.5p$Ø	DPE	X149	A
74#	SC174	250m	330M§	2.0m	$J	64	64	5.0	100m	15nØ	5 0Ø	2.0mØ	110 †△				4.5p$Ø	DPE	X149	A
75#	SC174A	250m	330M§	2.0m	$J	64	64	5.0	100m	15nØ	5.0Ø	2.0mØ	110 †△				4.5p$Ø	DPE	X149	A
76#	SC174B	250m	330M§	2.0m	$J	64	64	5.0	100m	15nØ	5 0Ø	2.0mØ	200 †△				4.5p$Ø	DPE	X149	A
77#	BF196	250m	400M§	2.5m	♦J	40	30	4.0	25m		10Ø	4.0mØ	57 †				200ftØ	PLØ†	S1	C
78#	BF198Ø	250m*	400M§	2.4m	♦J	40	30	4.0	25m	50nØ	10Ø	4.0mØ	60 †				200ft	PØ	R204	C
79#	ME9001†	250m	400M§△	2.0m	$J	40	15 *	4.5		300nØ	1 0Ø	10mØ	40 †△				4.0pØ	PE	R110c	A
80#	ME9002†	250m	400M§△	2.0m	$J	30	12 *	4.5		300nØ	1.0Ø	10mØ	30 †△				4.0pØ	PE	R110c	A
81♦#	PE9001†	250m	400M§△	2.5m	♦J	35	35 Ø	4 0	350m	200nØ	5.0Ø	10mØ	30 †△	140u	80	5.4	4.0pØ	PE	R110c	A
82♦#	PE9002†	250m	400M§△	2.5m	♦J	35	35 Ø	4.0	350m	200nØ	5.0Ø	10mØ	30 †△	140u	80	5 4	4.0pØ	PE	R110c	A
83#	SSX19†	250m	400M§△	1 6m	$J	40	15		500m#	400nØ	2 0Ø	100mØ	10 †△					PE	X149	A
84#	SSX20†	250m	400M§△	1.6m	$J	40	15		500m#	400nØ	2.0Ø	100mØ	20 †△					PE	X149	A
85	TIS63	250m	400M§△	2.0m	$J	30	12	3.0	50m	100nØ	10Ø	4.0mØ	20 †△				2.0 Ø	PL	R203	A
86▼#	2SC2153	250m	450M§△	2.5m	♦J	30	20	3.0	20m		10Ø	2.0mØ	25 †△						TO92	F
87	TIS125	250m	450M§△	2.0m	$S	40	30	4.0	50m	50nØ	10Ø	4.0mØ	30 †△					PL	R203	A
88♦#	2SC1686	250m	500M§Ø	2 2m	†J	40	30	4.0	25m	10u	10Ø	4.0mØ	26 †△				300ft	PL	TO92	E
89#	BF306	250m	500M§	1.6m	§J	45		5.0	50m		10Ø	7.0m	39 †△					PL	TO72	C
90	TIS62	250m	500M§△	2 0m	$J	30	12	3.0	50m	100nØ	10Ø	4.0mØ	30 †△				2pØ	PLØ	R203	A
91#	2SC1855	250m	550M§	2.5m	♦J	20	20	3.0	20m	100n	10Ø	2.0mØ	20 †△				450ftØ	PL	TO92	C
92#	2SC1856	250m	550M§	2.5m	♦J	20	20	3.0	20m	100n	10Ø	2.0mØ	20 †△				450ftØ	PL	TO92	C
93#	BF197	250m	550M§	2.5m	♦J	40	25	4.0	25m		10Ø	7.0mØ	88 †				300ft	PE†	S1	C
94#	BF199Ø	250m*	550M§	2.4m	§J	40	25	4.0	25m	50nØ	10Ø	7.0mØ	85 †				320ft	PE†	R204b	C
95#	2SC1126	250m	560M§	3.3m	$S	30	15	3.0	50m	200nØ	3 0Ø	1.0mØ	20 †△				1 7pØ	E†	TO92	C
96	2N4254	250m	600M§△	2.0m	$S	30	18	4.0	50m	.10uØ	10Ø	2.0mØ	50 †△				.7p$	†	TO92	B
97	2N4255	250m	600M§△	2 0m	$S	30	18	4.0	50m	.10uØ	10Ø	2.0mØ	30 †△				.7p$	†	TO92	B
98	2N4996	250m	600M§△	2.0m	$S	30	18	4.0	50m	.10uØ	10Ø	2.0mØ	50 †△				.7pØ		R203	A
99	2N4997	250m	600M§△	2.0m	$S	30	18	4.0	50m	.10uØ	10Ø	2.0mØ	30 †△				.7pØ		R203	A
100#	2SC1674K	250m	600M§	2 5m	♦J	30	20	4 0	20m	100n	6.0Ø	1.0mØ	90 †△*				1.0p	EØ	R182b	B
101#	2SC1674L	250m	600M§	2.5m	♦J	30	20	4.0	20m	100n	6.0Ø	1.0mØ	60 †△*				1.0p	EØ	R182b	B
102#	2SC1674M	250m	600M§	2.5m	♦J	30	20	4.0	20m	100n	6.0Ø	1.0mØ	40 †△*				1.0p	EØ	R182b	B
103▼#	BF562	250m*	600M§	2.4m	$J	30	20	3.0	20m		10Ø	3.0mØ	20 △				650ft	PL	R204	F
104	GET3563	250m	600M§△	2.0m	$J	30	12	3.0	50m	100nØ	10Ø	4.0mØ	20 †△				2.0 Ø	PL	R203	A
105#	ME9003†	250m	600M§	2.0m	$J	18	12 *	4.0		1.0uØ	5.0Ø	10mØ	100 †△				2.0p	PE	R110c	A
106	TIS18	250m	600M§△	2.0m	$J	25	13	3.0	30m	.50uØ	12Ø	10mØ	20 †#△				1.7pØ	PL	R196	
107	TIS83	250m	600M§△	2.0m	$J	40	25	4.0	50m	.10uØ	10Ø	5.0mØ	30 †△#				65p$	PE	TO92	B
108#	ZTX320	250m	600M§	2.5m	♦A	30	15	3.0		200n	1.0Ø	3.0mØ	20 †				3.0pØ	PLØ	X59	F
109#	ZTX321	250m	600M§	2.5m	♦A	30	15	3.0		200n	1 0Ø	3.0mØ	20 †△				3.0pØ	PLØ	X59	F
110	TIS84	250m	650M§	2.0m	$S	40	30	4.0	50m	50nØ	10Ø	4.0mØ	30 †△					PEtØ	R203	C

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1	IT2221	300m		1.7m	§S		60	30	5.0	800m	10nØ	10Ø	100uØ	20 †Δ				30p☑	DPL	S7	L
2	IT2222	300m		1.7m	§S		60	30	5.0	800m	10nØ	10Ø	100uØ	35 †Δ				30p☑	DPL	S7	L
3	ITC918A	300m		1.7m	§S		20	12	3.0	30m	100pØ	1.0Ø	100nØ	200 †				1.8p☑	DPEØ	TO18	AØ
4#	TIS60	300m		3.0m	§S		40	25	5.0	400m	100nØ	2.0Ø	50mØ	160 †#					PE†	TO92	B
5▼#	uPA15A*	300m		2.4m	§J		25	12	5.0	50m	100nØ	1.0Ø	1.0mØ	100 †					D	R131h	PD
6#	ZTX341	300m		3.0m	♦A		100	100	5.0	100m	500nØ*	1.0Ø	2.0mØ	30 Δ†					PLØ	X59	F
7#	ZTX342	300m		3.0m	♦A		120	120	5.0	100m	500nØ*	1.0Ø	2.0mØ	30 Δ†					PLØ	X59	F
8	2N4879*	300mØ	15M§Δ	1.7m	§S		55	55	7.0	10m	.1nØ	5.0Ø	1.0mØ	175 †Δ				.8p$	Ø*	TO71	PA
9	2N4880*	300mØ	15M§Δ	1.7m	§S		45	45	7.0	10m	.1nØ	5.0Ø	1.0mØ	100 †Δ				.8p$	Ø*	TO71	PA
10	2N1390	300m	20MΔ	2.0m	§S		20	20	2.0	50m	800nØ	6.0Ø	1 0m	10 Δ				10p☑		TO5	A
11	2N2432Ø	300m	20M§Δ	2.0m	§S		30	30		15 100m	.01uØ	5.0Ø	1 0mØ	50 †Δ				12p☑	Δ	TO18	AØ
12	2N2432AØ	300m	20M§Δ	2.0m	§S		45	45		18 100m	.01uØ	5.0Ø	1.0mØ	50 †Δ				12p$☑	Δ	TO18	AØ
13	2N4138	300m	20M§Δ	2.0m	§S		30	30		15 100m	.01uØ	5.0Ø	1.0mØ	50 †Δ				12p☑	☑	TO46	AØ
14	2N4878*	300mØ	20M§Δ	1.7m	§S		60	60	7.0	10m	.1nØ	5.0Ø	1.0mØ	225 †Δ				.8p$	Ø*	TO71	PA
15#	2SC1637	300m	20M§	3.4m	♦J		50	25	25	20m	200n	3.0Ø	1.0mØ	200 †				7.0p☑	EØ	X153	B
16#	BFV89Ø	300m	20M§Δ	2.0m	§S		30	30		15 100m	.01uØ	5.0Ø	1.0mØ	50 †Δ				12p☑	PE	W5a	B
17#	BFV89AØ	300m	20M§Δ	2.0m	§S		45	45		18 100m	.01uØ	5.0Ø	1.0mØ	50 †#				12p☑	PE	W5a	B
18	2N1389	300m	25MΔ	2.0m	§A		50	50 Ø	1.5	50m	500n	6.0Ø	1.0m	4.0 Δ				6.0p☑		TO5	A
19	2N754	300m	30M§Δ	3.0m	§S		60	60 §	3.0	50m	1.0u	10Ø	5.0mØ	20 Δ				10p☑		TO18	AØ
20	2N755	300m	30M§Δ	3.0m	§S		100	80 §	3.0	50m	1.0u	10Ø	5.0mØ	20 Δ				10p☑		TO18	AØ
21	2N839	300m	30M§Δ	3.0m	§J		45	45 §	2.0	50m	1.0u	5.0Ø	1.0mØ	20 Δ	1 2u☑b	80		15p☑		TO18	AØ
22	2N840	300m	30M§Δ	3.0m	§J		45	45 §	2.0	50m	1.0u	5.0Ø	1.0mØ	40 Δ	1.2u☑b	80		15p☑		TO18	AØ
23	2N842	300m	30M§	2.0m	§J		45	45 §	2.0	50m	1.0u	5.0Ø	1.0mØ	20 Δ	350nb	40	2.0	6.0p	ME Δ	TO18	AØ
24	2N929	300m	30M§Δ	2.0m	§J		45	45	5.0	30m	10u	5.0Ø	1.0mØ	60 Δ	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	PLØ	TO18	AØ
25	2N930	300m	30M§Δ	2.0m	§J		45	45	5.0	30m	10u	5.0Ø	1.0mØ	150 Δ	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	PLØ	TO18	AØ
26	2N2387	300m	30M§Δ	2.0m	§J		45	45	5.0	30m	10n	5.0Ø	1.0m	60 Δ	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	PLØ	W4	
27	2N2388	300m	30M§Δ	2.0m	§J		45	45	5.0	30m	10n	5.0Ø	1.0m	150 Δ	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	PLØ	W4	
28#	2S501	300m	30M§Δ	2.0m	§J		25	25	5.0	30m	10n	5.0Ø	10uØ	40 †Δ				8.0p☑	PLØ	TO18	Ø
29#	2S502	300m	30M§Δ	2.0m	§J		25	25	5.0	30m	10n	5.0Ø	10uØ	100 †Δ				8.0p☑	PLØ	TO18	Ø
30#	2S503†	300m	30M§Δ	2.0m	§J		25	25	5.0	30m	10n	5.0Ø	10uØ	180 †Δ				8.0p☑	PLØ	TO18	Ø
31#	2SC1636	300m	30M§	3.4m	♦J		50	25	25	20m	200n	3.0Ø	1.0mØ	1.0k†*				4.0p	EØ	X153	B
32	3N74Ø	300m	30M§Δ	2.0m	§S		50		18	20m	.01uØ							8p☑	Δ	TO72	GCØ
33	JAN3N74Ø	300m	30M§Δ	1.7m	§J		50		20	20m	10nØ							8.0p☑		TO72	GCØ
34	3N75Ø	300m	30M§Δ	2.0m	§S		50		18	20m	.01u							8p☑	Δ	TO72	GCØ
35	JAN3N75Ø	300m	30M§Δ	1.7m	§J		50		20	20m	10nØ							8.0p☑		TO72	GCØ
36	3N76Ø	300m	30M§Δ	2.0m	§S		50		18	20m	.01u							8p☑	Δ	TO72	GCØ
37	JAN3N76Ø	300m	30M§Δ	1.7m	§J		50		20	20m	10nØ							8.0p☑		TO72	GCØ
38	3N77Ø	300m	30M§Δ	2.0m	§S		40		12	20m	.01uØ							8p☑	Δ	TO72	GCØ
39	3N78Ø	300m	30M§Δ	2.0m	§S		40		12	20m	.01uØ							8p☑	Δ	TO72	GCØ
40	3N79Ø	300m	30M§Δ	2.0m	§S		40		12	20m	.02uØ							10p☑	Δ	TO72	GCØ
41#	BFV85D	300m	30M§Δ	500u	§J		45	45	5.0	30m	10n	5.0Ø	10uØ	60 Δ	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	PLØ	W5a	B
42#	BFV85E	300m	30M§Δ	500u	§J		45	45	5.0	30m	10n	5.0Ø	10uØ	150 Δ	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	PLØ	W5a	B
43	2N2639*	300m	31M§Δ	2.0m	§S		45	45	5.0	30m	10n	5.0Ø	1.0mØ	65 Δ	1.0u☑b	32 ☑	6 0 ☑	8 0p☑	Ø	R131c	PA
44	2N2640*	300m	31M§Δ	2.0m	§S		45	45	5.0	30m	10n	5.0Ø	1.0mØ	65 Δ	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	Ø	R131c	PA
45	2N2641*	300m	31M§Δ	2.0m	§S		45	45	5.0	30m	10n	5.0Ø	1.0mØ	65 Δ	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	Ø	R131c	PA
46	2N2642*	300m	31M§Δ	2.0m	§S		45	45	5.0	30m	10n	5.0Ø	1.0mØ	130 Δ	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	Ø	R131c	PA
47	2N2643*	300m	31M§Δ	2.0m	§S		45	45	5.0	30m	10n	5.0Ø	1.0mØ	130 Δ	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	Ø	R131c	PA
48	2N2644*	300m	31M§Δ	2.0m	§S		45	45	5.0	30m	10n	5.0Ø	1.0mØ	130 Δ	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	Ø	R131c	PA
49	JAN2N2639*	300m	32M§Δ	2.0m	§S		45	45	5.0	30m	10n	5.0Ø	1.0mØ	65 Δ	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	Ø	TO77	PA
50	JAN2N2642*	300m	32M§Δ	2.0m	§S		45	45	5.0	30m	10n	5.0Ø	1.0mØ	130 Δ	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	Ø	TO77	PA
51	2N841	300m	40M§Δ	3.0m	§S		45	45 §	2.0	50m	1.0u	5.0Ø	1.0mØ	80 Δ	1.2u☑b	80		15p☑		TO18	AØ
52	2N843	300m	40M§	2.0m	§S		45	45 §	2.0	50m	1.0u	5.0Ø	10mØ	40 Δ	350nb	40	2.0	6.0p	ME Δ	TO18	AØ
53	JAN2N2432	300m	40M§Δ	1.7m	§S		30	30		100m	10nØ	5.0Ø	1.0mØ	80 †Δ				12p☑	Δ	TO18	AØ
54	JAN2N2432A	300m	40M§Δ	1.7m	§S		45	45		100m	10nØ	5.0Ø	1.0mØ	80 †Δ				12p☑	Δ	TO18	AØ
55	2N3566	300m	40M§Δ	3.0m	♦J		40	30	5.0	200m	50nØ	10Ø	2.0mØ	80 †Δ				25p☑		R110a	A
56	2N5135	300m	40M§Δ	2.9m	♦J		30	25	4.0	200m	.30uØ	10Ø	10mØ	50 †#Δ				25p$		TO105	A
57	2N5137	300m	40M§Δ	2.9m	♦J		30	20	3.0	500m	.10uØ	1.0Ø	150mØ	20 †#Δ				35p$		TO106	A
58	BC115	300m	40.M§	3.0m	♦J		40	30	5.0		.10uØ	10Ø	10mØ	200 †#				12p	DPL	R97	
59#	BC117	300m	40M§Δ	3.0m	♦J		120	120	5.0		.10uØ	10Ø	30mØ	30 †Δ				6.0p	DPL	R97	
60	BC125	300m	40M§Δ	3.0m	♦J		50	30	5.0		.05uØ	10Ø	1.0mØ	20 †Δ				12p	DPE	R97	
61	BC125A	300m	40M§Δ	3.0m	♦J		50	40	5.0	500m	50n	10Ø	10mØ	40 †Δ				25p☑		TO105	A
62#	BC145	300m	40M§Δ	3.0m	♦J		120	120	5.0		.10uØ	30Ø	5.0mØ	30 †Δ				6.0p	PE	R97	
63	BC236	300m	40M§Δ	3.0m	♦J		120	120	5.0	50m	100nØ	5.0Ø	10m	25 †Δ				4.0p	PL	R110	A
64#	BCY76	300m	40M§	2.0m	§J		45	45	6.0	100m		5.0Ø	1.0mØ	140 †Δ				6.0p☑	PEØ	TO18	AØ
65#	BSY89Ø	300m	40M§Δ	2.0m	§J		25	18	7.0	100m	.01uØ	5.0Ø	1.0mØ	150 †Δ				15p☑	PE	TO18	AØ
66	SE6001	300m	40.M§	3.0m	♦J		40	30	5.0		.50uØ	10Ø	10mØ	50 †#Δ				25p☑	PL	TO105	
67	SE6002	300m	40.M§	3.0m	♦J		40	30	5.0		.50uØ	10Ø	10mØ	150 †#Δ				25p☑	PL	TO105	
68	2N2693†	300m	42M§Δ	2.0m	§S		45	30	10	50m	.01uØ	1.0Ø	.01mØ	40 †Δ				5p☑		TO18	AØ
69	2N2694†	300m	42M§Δ	2.0m	§S		45	20	10	50m	.01uØ	1.0Ø	.01mØ	20 †Δ				5p☑		TO18	AØ
70	JAN2N929	300m	45M§Δ	2.0m	§J		60	45	6.0	30m	10nØ	5.0Ø	1.0mØ	60 Δ	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	Ø	TO18	AØ
71	2N2586	300m	45M§Δ	2.0m	§S		60	45	6.0	30m	2.0nØ	5.0Ø	1.0mØ	150 Δ	100u☑	18k☑		7.0p☑	Ø	TO18	AØ
72#	BFX92	300m	45M§	2.0m	§J		50	45	6.0	30m	10nØ	5.0Ø	1.0mØ	60 Δ	1.0u☑b	32 ☑	6.0 ☑	5.0p	DPLØ	TO18	AØ
73#	BFX93	300m	45M§	2.0m	§J		50	45	6.0	30m	10nØ	5.0Ø	1.0mØ	150 Δ	1.0u☑b	32 ☑	6.0 ☑	5.0p	DPLØ	TO18	AØ
74	2N844	300m	50M§Δ	3.0m	§S		60	60 §	3.0	50m	50u	10Ø	5.0mØ	40 Δ				10p☑		TO18	AØ
75	2N845	300m	50M§Δ	3.0m	§S		100	80 §	3.0	50m	50uØ	10Ø	5.0mØ	40 Δ				10p☑		TO18	AØ
76	2N1388	300m	50MΔ	2.0m	§S		45	25	1.5	50m	500nØ	6.0Ø	1.0m	30 Δ				10p☑		TO5	A
77	2N2480*	300m	50M§Δ	1.7m	§J		75	40	5.0	500m	.05uØ	5.0Ø	1.0mØ	30 †Δ				20p☑	*Ø	R131c	PA
78	2N2480A*	300m	50M§Δ	1.7m	§J		80	40	5.0	500m	.02uØ	5.0Ø	1.0mØ	50 Δ	16u☑	5.0k☑		18p☑	*Ø	R131c	PA
79#	2SC1006	300m	50M§Δ	2.4m	§J		50	40	5.0	30m	50nØ	3.0Ø	1.0mØ	600 †	22	14k	2.0	10p☑	E	TO18	AØ
80#	2SC1010	300m	50M§Δ	2.4m	§J		50	40	5.0	30m	50nØ	3.0Ø	1.0mØ	550 †	22	14k	2.0	10p☑	EØ	TO18	AØ
81	EN697	300m	50M§Δ	3.0m	♦J		60	30	5.0		1.0uØ	5.0Ø	1.0mØ	25 Δ	500n☑b	34 ☑	5.0 ☑	35p☑	DPL	TO105	AØ
82▼	HSE450-RT	300m	50M§Δ	3.0m	♦J		30	30	4.0		1.0u	5.0Ø	20mØ	100 †Δ						TO98	B
83	MPSA10	300m	50M§Δ	2.7m	†J			40	4.0	100m	100n	10Ø	5.0mØ	40 †Δ*				4.0p☑	AN	TO92	A
84▼#	SCA42	300m	50M§	2.4m	§J		300	300		6 500m	250n	10Ø	30mØ	25 Δ				10p	PE	R204	A
85▼#	SCA43	300m	50M§	2.4m	§J		200	200		6 500m	250n	10Ø	30mØ	30 Δ				10p	PE	R204	A
86▼#	SCA44	300m	50M§	2.4m	§J		150	150		6 500m	250n	10Ø	10mØ	180 ☑				10p	PE	R204	A
87▼#	SCA45	300m	50M§	2.4m	§J		120	120		6 500m	250n	10Ø	10mØ	240 ☑				10p	PE	R204	A
88	TRS3011	300m	50M§Δ	2.0m	§A		300	300 §	6.0		2.0uØ	4.0Ø	50mØ	65 †#				14p		TO46	
89	TRS3012	300m	50M§Δ	2.0m	§A		300	300 §	6.0		2.0uØ	4.0Ø	50mØ	65 †#				14p		TO18	
90	TRS3501	300m	50M§Δ	2.0m	§A		350	350 §	6.0		2.0uØ	4.0Ø	50mØ	60 †#				14p		TO46	
91	TRS3502	300m	50M§Δ	2.0m	§A		350	350 §	6.0		2.0uØ	4.0Ø	50mØ	60 †#				14p		TO18	
92	TRS4001	300m	50M§Δ	2.0m	§A		400	400 §	6.0		2.0uØ	4.0Ø	50mØ	65 †#				14p		TO46	
93	TRS4002	300m	50M§Δ	2.0m	§A		400	400 §	6.0		2.0uØ	4.0Ø	50mØ	65 †#				14p		TO18	
94	TRS4501	300m	50M§Δ	2.0m	§A		450	450 §	6.0		2.0uØ	4.0Ø	50mØ	65 †#				14p		TO46	
95	TRS4502	300m	50M§Δ	2.0m	§A		450	450 §	6.0		2.0uØ	4.0Ø	50mØ	65 †#				14p		TO18	
96	TRS5011	300m	50M§Δ	2.0m	§A		500	500 §	6.0		2.0uØ	5.0Ø	25mØ	65 †#				14p		TO46	
97	TRS5012	300m	50M§Δ	2.0m	§A		500	500 §	6.0		2.0uØ	5.0Ø	25mØ	65 †#				14p		TO18	
98	TRS5501	300m	50M§Δ	2.0m	§A		550	550 §	6.0		10uØ	5.0Ø	25mØ	60 †#				14p		TO46	
99	TRS5502	300m	50M§Δ	2.0m	§A		550	550 §	6.0		10uØ	5.0Ø	25mØ	60 †#				14p		TO18	
100	TRS6011	300m	50M§Δ	2.0m	§A		600	600 §	6.0		10uØ	5.0Ø	25mØ	65 †#				14p		TO46	
101	TRS6012	300m	50M§Δ	2.0m	§A		600	600 §	6.0		10uØ	5.0Ø	25mØ	65 †#				14p		TO18	
102	2N2910*	300m	55M§Δ	1.7m	§J		45	25	7.0		10nØ	5.0Ø	1.0mØ	50 Δ	1.0u☑b	32 ☑	8.0 ☑	12p☑		TO77	PA
103	2N780	300m	60M§Δ	2.0m	§S		45	45	5.0	50m	10nØ	5.0Ø	30uØ	20 †Δ		75 ☑	6.0 ☑b	4.0p☑	Ø	TO18	AØ
104	2N2652*	300m	60M§Δ	1.7m	§J		100	60	7.0	500m	10nØ	5.0Ø	1.0mØ	50 Δ	50u☑	10k		15p☑	Ø	R131c	PA
105	2N2652A*	300m	60M§Δ	1.7m	§J		100	60	7.0	500m	2.0nØ	5.0Ø	1.0mØ	50 Δ	50u☑	10k☑		15p☑	Ø	R131c	PA
106	2N2913*	300m	60M§Δ	2.8m	§J		45	45	6.0	30m	10n	5.0Ø	10nØ	60 †Δ	1.0u☑b	32 ☑		6.0p☑	Ø	R131c	PA
107	2N2914*	300m	60M§Δ	2.8m	§J		45	45	6.0	30m	10n	5.0Ø	10nØ	150 †Δ	1.0u☑b	32 ☑		6.0p☑	Ø	R131c	PA
108	2N2915*	300m	60M§Δ	1.7m	§J		45	45	6.0	30m	10n	5.0Ø	10uØ	60 †Δ	1.0ub	32 ☑		6.0p☑	Ø	R131c	PA
109	2N2915A*	300m	60M§Δ	1.7m	§J		45	45	6 0	30m	10n	5.0Ø	1.0mØ	150 †Δ	100n☑b	37 ☑		6.0p☑	*	R131c	PA
110	2N2916*	300m	60M§Δ	2.8m	§J		45	45	6.0	30m	10n	5.0Ø	10uØ	150 †Δ	1.0u☑b	32 ☑		6.0p☑	*	R131c	PA

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1#	BC182L†	300m	150M§Δ	2.4m	$S		60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	500 ☑				5.0p☑	PE	TO92	B
2#	BC182LA†	300m	150M§Δ	2.4m	$S		60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	260 ☑				5.0p☑	PE	TO92	B
3#	BC182LB†	300m	150M§Δ	2.4m	$S		60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	500 ☑				5.0p☑	PE	TO92	B
4#	BC183†	300m	150M§Δ	2.4m	$S		45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	900 ☑				5.0p☑	PE	R203	A
5#	BC183A†	300m	150M§Δ	2.4m	$S		45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	260 ☑				5.0p☑	PE	R203	A
6#	BC183A☑	300m	150M§	2.5m	$J		45	30	6.0	200m	15n	5.0Ø	2.0m	222	18	2.7k	1.5	2.5p	PE	TO92	
7#	BC183B†	300m	150M§Δ	2.4m	$S		45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	500 ☑				5.0p☑	PE	R203	A
8#	BC183B☑	300m	150M§	2.5m	$J		45	30	6.0	200m	15n	5.0Ø	2.0m	330	30	4.5k	2.0	2.5p	PE	TO92	
9#	BC183C†	300m	150M§Δ	2.4m	$S		45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	900 ☑				5.0p☑	PE	R203	A
10#	BC183L†	300m	150M§Δ	2.4m	$S		45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	900 ☑				5.0p☑	PE	TO92	B
11#	BC183LA†	300m	150M§Δ	2.4m	$S		45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	260 ☑				5.0p☑	PE	TO92	B
12#	BC183LB†	300m	150M§Δ	2.4m	$S		45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	500 ☑				5.0p☑	PE	TO92	B
13#	BC183LC†	300m	150M§Δ	2.4m	$S		45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	900 ☑				5.0p☑	PE	TO92	B
14#	BC184†	300m	150M§Δ	2.4m	$S		45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	900 ☑				5.0p☑	PEØ	R203	A
15#	BC184B†	300m	150M§Δ	2.4m	$S		45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	500 ☑				5.0p☑	PEØ	R203	A
16#	BC184C	300m	150M	2.4m	$		45	30	5.0	200m	15n	5.0	2.0m	450 Δ*				5.0p	PE	R203	A
17#	BC184L†	300m	150M§Δ	2.4m	$S		45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	900 ☑				5.0p☑	PEØ	TO92	B
18#	BC184LB†	300m	150M§Δ	2.4m	$S		45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	500 ☑				5.0p☑	PEØ	TO92	B
19#	BC184LC†	300m	150M§Δ	2.4m	$S		45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	900 ☑				5.0p☑	PEØ	TO92	B
20#	BC267	300m	150M§	10u	#J		50	50 Ø	6.0	1	15n§	5.0Ø	2.0mØ	300	20u	3.0k	3.6		PE	TO18	
21#	BC268	300m	150M§	10u	#J		30	30 Ø	6.0	1	15n§	5.0Ø	2.0mØ	400	30u	4.0k	5.6		PE	TO18	
22#	BC269	300m	150M§	10u	#J		30	30 Ø	6.0	1	15n§	5.0Ø	2.0mØ	500	40u	6.0k	7.0		PE	TO18	
23#	BC382	300m	150M	2.4m	$		50	45	6.0	200m	15n	5.0	2.0m	240 Δ*				5.0p	PE	TO18	
24#	BC382B	300m	150M§Δ	2.4m	$S		50	45	6.0	100m	15nØ	5.0Ø	2.0mØ	240 Δ				3.0p	PEØ	R203c	A
25#	BC382C	300m	150M§Δ	2.4m	$S		50	45	6.0	100m	15nØ	5.0Ø	2.0mØ	450 Δ				3.0p	PEØ	R203c	A
26#	BC383	300m	150M	2.4m	$		45	30	6.0	200m	15n	5.0	2.0m	240 Δ*				5.0p	PE	TO18	
27#	BC383B	300m	150M§Δ	2.4m	$S		45	30	6.0	100m	15nØ	5.0Ø	2.0mØ	240 Δ				3.0p	PEØ	R203c	A
28#	BC383C	300m	150M§Δ	2.4m	$S		45	30	6.0	100m	15nØ	5.0Ø	2.0mØ	450 Δ				3.0p	PEØ	R203c	A
29#	BC384	300m	150M	2.4m	$		45	30	6.0	200m	15n	5.0	2.0m	240 Δ*				5.0p	PE	TO18	
30#	BC384B	300m	150M§Δ	2.4m	$S		45	30	6.0	100m	15nØ	5.0Ø	2.0mØ	240 Δ				3.0p	PEØ	R203c	A
31#	BC384C	300m	150M§Δ	2.4m	$S		45	30	6.0	100m	15nØ	5.0Ø	2.0mØ	450 Δ				3.0p	PEØ	R203c	A
32#	BC582	300m	150M§Δ	2.4m	$S		50	45	6.0	200m	15nØ	5.0Ø	2.0mØ	125 Δ*				3.0p	PE†	R203c	A
33#	BC582A	300m	150M§Δ	2.4m	$S		50	45	6.0	200m	15nØ	5.0Ø	2.0mØ	260 ☑				3.0p	PE†	R203c	A
34#	BC582B	300m	150M§Δ	2.4m	$S		50	45	6.0	200m	15nØ	5.0Ø	2.0mØ	240 Δ				3.0p	PE†	R203c	A
35#	BC583	300m	150M§Δ	2.4m	$S		30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	125 Δ*				3.0p	PE†	R203c	A
36#	BC583A	300m	150M§Δ	2.4m	$S		30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	260 ☑				3.0p	PE†	R203c	A
37#	BC583B	300m	150M§Δ	2.4m	$S		30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	240 Δ				3.0p	PE†	R203c	A
38#	BC583C	300m	150M§Δ	2.4m	$S		30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	450 Δ				3.0p	PE†	R203c	A
39#	BC584	300m	150M§Δ	2.4m	$S		30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	240 Δ*				3.0p	PE†	R203c	A
40#	BC584B	300m	150M§Δ	2.4m	$S		30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	500 ☑				3.0p	PE†	R203c	A
41#	BC584C	300m	150M§Δ	2.4m	$S		30	20	5.0	200m	15nØ	5.0Ø	2.0mØ	450 Δ				3.0p	PE†	R203c	A
42#	BC682	300m	150M	2.4m	$		75	70	5.0	200m	15n	5.0	2.0m	60				5.0p	PE	TO18	
43#	BCW36	300m	150M	2.4m	§		60	45	5.0	600m	10n	5.0Ø	100mØ	100 Δ	5.0u	40k	10	6.0p	PE	TO18	
44#	BCY69	300m	150M§Δ	2.0m	§J		20	20	5.0	100m	150nØ	5.0Ø	2.0mØ	750				5.5p	PE	TO18	Ø
45#	BFS29	300m	150M	2.4m	$		45	45	5.0	200m	20n	15Ø	100mØ	40 †Δ				5.0p	PE	S5a	P
46#	BFY39	300m	150M§	2.0m	§J		45	25	5.0	100m	50uØ	10Ø	10mØ	35 †				5.0p	PL	TO18	
47#	BFY39/I	300m	150M§	2.0m	§J		45	25	5.0	100m	.05uØ	10Ø	10mØ	35 Δ†	8.0u	3.2k	.30		PL	TO18	A
48#	BFY39/II	300m	150M§	2.0m	§J		45	25	5.0	100m	.05uØ	10Ø	10mØ	200 ☑†	8.0u	3.2k	.30		PL	TO18	A
49#	BFY39/III	300m	150M§	2.0m	§J		45	25	5.0	100m	.05uØ	10Ø	10mØ	400 ☑†	8.0u	3.2k	.30		PL	TO18	A
50▼	HSE317-RT	300m	150M§Δ	3.0m	♦J		70	50	3.0		1.0uØ	1.0Ø	10mØ	250 †Δ						R124d	A
51#	PBC182	300m	150M§Δ	3.0m	#J		60	50	5.0	200m	10u	5.0Ø	2.0mØ	100 †Δ				5.0p	PE	TO98	B
52#	PBC183	300m	150M§Δ	3.0m	#J		45	30	5.0	200m	10u	5.0Ø	2.0mØ	100 †Δ				5.0p	PE	TO98	B
53#	PBC184	300m	150M§Δ	3.0m	#J		45	30	5.0	200m	10u	5.0Ø	2.0mØ	250 †Δ				5.0p	PEØ	TO98	B
54	SA2719*	300m	150M§Δ	2.0m	§J		60	50	6.0		2nØ	5.0Ø	.01mØ	75 †Δ				3p☑	*Ø	R131c	
55	SA2720*	300m	150M§Δ	2.0m	§J		60	50	6.0		2nØ	5.0Ø	.01mØ	75 †Δ				3p☑	*Ø	R131c	
56	SA2721*	300m	150M§Δ	2.0m	§J		60	50	6.0		2nØ	5.0Ø	.01mØ	75 †Δ				3p☑	*Ø	R131c	
57	SA2722*	300m	150M§Δ	2.0m	§J		50	30	6.0		2nØ	5.0Ø	.01mØ	75 †Δ				3p☑	*Ø	R131c	
58	SA2723*	300m	150M§Δ	2.0m	§J		50	30	6.0		2nØ	5.0Ø	.01mØ	75 †Δ				3p☑	*Ø	R131c	
59	SA2724*	300m	150M§Δ	2.0m	§J		50	30	6.0		2nØ	5.0Ø	.01mØ	75 †Δ				3p☑	*Ø	R131c	
60	SA2726*	300m	150M§Δ	2.0m	§J		50	25	6.0		2nØ	5.0Ø	.10mØ	100 †Δ				3p☑		R131c	
61	SA2738*	300m	150M§Δ	2.0m	§J		50	30	6.0		2nØ	5.0Ø	.01mØ	75 †Δ				3p☑	Ø*	R131c	
62	SA2739*	300m	150M§Δ	2.0m	§J		50	30	6.0		2nØ	5.0Ø	.01mØ	75 †Δ				3p☑	Ø*	R131c	
63#	ZDT10	300m	150M§	2.4m	§J		10	10	5.0	50m	.01uØ	6.0Ø	.20mØ	20 †Δ				8p☑	PL	R102a	PD
64#	ZDT11	300m	150M§	2.4m	§J		10	10	5.0	50m	.01uØ	6.0Ø	.20mØ	20 †Δ				8p☑	PL	R102a	PD
65#	ZDT20	300m	150M§	2.4m	§J		35	35	5.0	50m	.01u	6.0Ø	.20mØ	20 †Δ				8p☑	PL	R102a	PD
66#	ZDT21	300m	150M§	2.4m	§J		35	35	5.0	50m	.01u	6.0Ø	.20mØ	20 †Δ				8p☑	PL	R102a	PD
67#	ZTX300	300m	150MΔ§	3.0m	♦A		25	25	5.0	500m	200n	6.0Ø	10mØ	50 Δ†				6.0p	PLØ	X59	F
68#	ZTX301	300m	150MΔ§	3.0m	♦A		35	35	5.0	500m	200n	6.0Ø	10mØ	50 Δ†				6.0p	PLØ	X59	F
69#	ZTX302	300m	150MΔ§	3.0m	♦A		35	35	5.0	500m	200n	6.0Ø	10mØ	100 Δ†				6.0p	PLØ	X59	F
70#	ZTX303	300m	150MΔ§	3.0m	♦A		45	45	5.0	500m	200n	6.0Ø	10mØ	50 Δ†				6.0p	PLØ	X59	F
71#	ZTX304	300m	150MΔ§	3.0m	♦A		70	70	5.0	500m	200n	6.0Ø	10mØ	50 Δ†				6.0p	PLØ	X59	F
72#	BSX21	300m	160M§	2.0m	§J		120	80	5.0	100m	200nØ	1.0Ø	1.0mØ	60 †				3.4p$	PE	TO18	AØ
73#	2SC318A	300m	170M§	2.0m	§J		50	30	5.0	100m	.20uØ	3.0Ø	1.0mØ	90 †				4.5p☑	D	TO18	
74#	2SC1175	300m	170M§	3.0m	♦J		50	50	4.0	200m	10uØ	6.0Ø	50mØ	100 †*					PL	R195a	B
75#	BSY72	300m	170M§	2.0m	§J		25	18	5.0	30m	.10uØ	1.0Ø	1.0mØ	80 †Δ	8.0u	5.0k	1.2	6.0p	PE	TO18	AØ
76#	BSY74	300m	170M§	2.0m	§J		25	18	5.0	100m	.10uØ	1.0Ø	1.0mØ	80 †Δ	8.0u	5.0k	1.2	6.0p	PE	TO18	AØ
77#	BSY76	300m	170M§	2.0m	§J		40	32	7.0	250m	.05uØ	1.0Ø	1.0mØ	80 †Δ	7.0u	5.0k	1.0	5.0p	PE	TO18	AØ
78#	BSY78	300m	170M§	2.0m	§J		80	64	7.0	250m	.05uØ	1.0Ø	1.0mØ	80 †Δ	5.5u	5.0k	.80	4.0p	PE	TO18	AØ
79	SK3038-RT	300m	175M§				30	25	7.5	300m				175 †					PE	TO5	AØ
80	IT121TO71*	300mØ	180M§Δ	1.7mØ	§J		45	45	7.0	50m	1.0n	5.0Ø	1.0mØ	100 Δ†				2.0p☑	PL*	TO71	PA
81	IT122TO71*	300mØ	180M§Δ	1.7mØ	§J		45	45	7.0	50m	1.0n	5.0Ø	1.0mØ	100 Δ†				2.0p☑	PL*	TO71	PA
82	MPSH04	300m	180M§	2.7m	†J		80	80	4.0	100m	50nØ	10Ø	1.5mØ	120 †☑	2.0u			1.0p$	ANØ	TO92	A
83	MPSH05	300m	180M§	2.7m	†J		80	80	4.0	100m	50nØ	10Ø	1.5mØ	150 †☑	2.0u			1.0p$	ANØ	TO92	A
84	SA2710*	300m	180M§Δ	2.0m	§J		60	50	6.0		2nØ	5.0Ø	.01mØ	40 †Δ				3p☑	*Ø	R131c	
85	SA2711*	300m	180M§Δ	2.0m	§J		60	50	6.0		2nØ	5.0Ø	.01mØ	150 †Δ				3p☑	*Ø	R131c	
86	SA2712*	300m	180M§Δ	2.0m	§J		60	50	6.0		2nØ	5.0Ø	.01mØ	150 †Δ				3p☑	*Ø	R131c	
87	SA2713*	300m	180M§Δ	2.0m	§J		60	50	6.0		2nØ	5.0Ø	.01mØ	150 †Δ				3p☑	*Ø	R131c	
88	SA2714*	300m	180M§Δ	2.0m	§J		60	50	6.0		2nØ	5.0Ø	.01mØ	150 †Δ				3p☑	*Ø	R131c	
89	SA2715*	300m	180M§Δ	2.0m	§J		50	30	6.0		2nØ	5.0Ø	.01mØ	40 †Δ				3p☑	*Ø	R131c	
90	SA2716*	300m	180M§Δ	2.0m	§J		50	30	6.0		2nØ	5.0Ø	.01mØ	150 †Δ				3p☑	*Ø	R131c	
91	SA2717*	300m	180M§Δ	2.0m	§J		50	30	6.0		2nØ	5.0Ø	.01mØ	150 †Δ				3p☑	*Ø	R131c	
92	SA2718*	300m	180M§Δ	2.0m	§J		50	30	6.0		2nØ	5.0Ø	.01mØ	150 †Δ				3p☑	*Ø	R131c	
93	SA2725*	300m	180M§Δ	2.0m	§J		50	25	6.0		2nØ	5.0Ø	.10mØ	200 †Δ				3p☑		R131c	
94	JAN2N706†	300m	200M§Δ	2.0m	§S		25	15	5.0		100nØ	1.0Ø	10mØ	30 †Δ				6.0p☑		TO18	AØ
95	2N706A†	300m	200M§Δ	2.0m	§J		25	20	5.0	50m	10u	1.0Ø	10mØ	20 †Δ				5.0p☑		TO18	AØ
96	2N753†	300m	200M§Δ	1.7m	§J		25	15	5.0	50m	500nØ	1.0Ø	10mØ	40 †Δ				5.0p☑		TO18	AØ
97	2N783†	300m	200M§Δ	2.0m	§J		40	20 §	5.0	200m	.25uØ	1.0Ø	10mØ	20 †Δ				3.5p☑		TO18	AØ
98	2N784†	300m	200M§Δ	2.0m	§J		30	15 §	5.0	200m	.25uØ	1.0Ø	10mØ	25 Δ				3.5p☑		TO18	AØ
99	2N849†	300m	200M§Δ	2.0m	§S		25	15	5.0	50m	10u	1.0Ø	10mØ	20 †#Δ				5.0p☑		W5a	B
100	2N850†	300m	200M§Δ	2.0m	§S		25	15	5.0	50m	10u	1.0Ø	10mØ	40 †#Δ				5.0p☑		W5a	B
101	2N1708	300m	200M§Δ		§A		25	12	3.0	200m	25nØ	1.0Ø	10mØ	20 †Δ				6.0p☑	Δ	TO46	AØ
102	2N2205†	300m	200M§Δ	1.7m	§A		25	12	3.0	200m	25nØ	1.0Ø	10mØ	20 †Δ				6.0p☑		TO46	AØ
103	2N2206†	300m	200M§Δ	1.7m	§A		25	12	3.0	200m	25nØ	1.0Ø	10mØ	40 †Δ				6.0p☑		TO46	AØ
104#	2SC294*	300m	200M§	2.0m	§J		25	12	5.0	50m	100nØ	1.0Ø	1.0mØ	80 †		40		4.5p	D*	R131h	PD
105#	2SC478	300m	200M§	1.7m	§J		50	50 Ø	1.5	120m#	1.0uØ	12Ø	20m	20 †				4.0p	PE	TO18	AØ
106#	2SC896	300m	200M§	2.0m	§J		55	30	5.0	200m	1.0uØ	10Ø	5.0m	70				3.5p	PE	TO46	AØ
107#	2SC1775	300m	200M§	3.0m	♦J		90	90	5.0	50m	500nØ	12Ø	2.0mØ	160 †Δ				1.6p	E	TO92	B
108#	2SC1775A	300m	200M§	3.0m	♦J		120	120	5.0	50m	500nØ	12Ø	2.0mØ	160 †Δ				1.6p	E	TO92	B
109#	2SC1815	300m	200M§		♦J		45	40	4.0	100m	100nØ	6 0Ø	2.0mØ	400 †☑				2.0p	E	TO92	B
110#	2SC1890	300m	200M§	3.0m	♦J		90	90	5.0	50m	500nØ	12Ø	2.0mØ	160 †Δ				1.6p	E	TO92	B

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1	2N988	300m	300M§Δ	6.7k	§J	20	10	3.0	220m	500nØ	1.0Ø	10mØ	20 †Δ				4.0pØ		TO18	AØ
2	2N989	300m	300M§Δ	6.7k	§J	20	10	3.0	220m	500nØ	1.0Ø	10mØ	20 †Δ				3.5pØ		TO18	AØ
3	2N1708A†	300m	300M§Δ	1.7m	§J	40	15	5.0	500m	25nØ	1.0Ø	10mØ	30 †Δ				6.0pØ		TO46	AØ
4	2N2319†	300m	300M§Δ	1.7m	§S	30	15	5.0		50nØ	.40Ø	20m	40 †Δ				5.0pØ		TO46	AØ
5	2N3261†	300m	300M§Δ	2.0m	§S	40	15	6.0	500m		1.0Ø	200mØ	20 †#Δ				3.5pØ		TO52	AØ
6	2N3425*	300m	300M§Δ	1.7m	§J	40	15	5.0		25nØ	1.0Ø	10mØ	20 Δ				6.0pØ	Δ	R131c	PA
7#	2SC383	300m	300M§Δ	3.0m	♦J	75	40	3.0	50m	25uØ	13Ø	12mØ	20 †Δ				2 0pØ	PE†	R67a	B
8♦#	2SC735	300m	300M§	3.0m	♦J	35	30	5.0	400m	.10uØ	1.0Ø	100mØ	70 †Δ*				7.0p	PE	R67a	B
9#	2SC1216†	300m	300M§		§J						1.0Ø	10mØ	140 †				6.0pØ	PE	TO18	AØ
10#	2SC2109†	300m	300M§	2.4m	§J	60	40	8.0	200m	100nØ	1 0Ø	10mØ	160 †				3.5p	E†	R221	F
11▼#	2SN383	300m	300M§Δ	3.0m	♦J	75	40	3.0	50m	25uØ	13Ø	12mØ	20 †Δ				2.0pØ	PE	R67a	A
12▼#	2SN735	300m	300M§	3.0m	♦J	35	30	5.0	400m	100nØ	1.0Ø	100mØ	70 †Δ*				7.0p	PE	R67a	A
13	40405	300m	300M§Δ	2.0m	§J		16	6.0	500m	.40u§	1.0Ø	100mØ	20 †Δ				3.5pØ	PE	TO52	AØ
14	40519	300m	300M§Δ	2.0m	§J		16	5.0	500m	25n	1 0Ø	50mØ	20 †Δ				3.5pØ	PE	TO52	A
15	40637	300m	300M§	2.0m	§J		30 Ø	5 0	100m								3.0p	PE	TO52	AØ
16	A157A	300m	300M§	2.0m	§J	50	45	6.0	100m	15u†Ø	5.0Ø	2.0mØ	220	18u	2.7k	1.5	2.5p$	PE	TO18	AØ
17	A157B	300m	300M§	2.0m	§J	50	45	6.0	100m	15u†Ø	5.0Ø	2.0mØ	330	30u	4.5k	2 0	2.5p$	PE	TO18	AØ
18	A158B	300m	300M§	2.0m	§J	30	20	5 0	100m	15u†Ø	5.0	2.0mØ	330	30u	4.5k	2.0	2.5p$	PE	TO18	AØ
19	A158C	300m	300M§	2.0m	§J	30	20	5.0	100m	15u†Ø	5.0	2.0mØ	600	60u	8.7k	3.0	2.5p$	PE	TO18	AØ
20	A159B	300m	300M§	2.0m	§J	30	20	5.0	100m	15u†Ø	5.0	2.0mØ	330	30u	4.5k	2 0	2.5p$	PEØ	TO18	AØ
21	A159C	300m	300M§	2.0m	§J	30	20	5.0	100m	15u†Ø	5.0	2.0mØ	600	60u	8.7k	3.0	2.5p$	PEØ	TO18	AØ
22#	BC107	300m	300M§	2 0m	§J	50	45	6.0	100m	15uØ†	5.0Ø	2.0mØ	125 Δ				9.0p$	PEØ	TO18	AØ
23#	BC107A	300m	300M§	2.0m	§J	50	45	6.0	100m	15u†Ø	5.0Ø	2.0mØ	220	18	2.7	1.5	2.5p$	PEØ	TO18	AØ
24#	BC107B	300m	300M§	2.0m	§J	50	45	6.0	100m	15u†Ø	5.0Ø	2.0mØ	330	30	4.5	2.0	2.5p$	PEØ	TO18	AØ
25#	BC108	300m	300M§	2.0m	§J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	125 Δ				9.0p$	PEØ	TO18	AØ
26#	BC108A	300m	300M§	2.0m	§J	30	20	5.0	100m	15u†Ø	5.0Ø	2.0mØ	220	18	2.7	1.5	2.5p$	PEØ	TO18	AØ
27#	BC108B	300m	300M§	2.0m	§J	30	20	5.0	100m	15u†Ø	5.0Ø	2.0mØ	330	30	4.5	2.0	2.5p$	PEØ	TO18	AØ
28#	BC108C	300m	300M§	2 0m	§J	30	20	5.0	100m	15u†Ø	5.0Ø	2.0mØ	600	60	8.7	3.0	2.5p$	PEØ	TO18	AØ
29#	BC109	300m	300M§	2.0m	§J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	240 Δ				9.0p$	PEØ	TO18	AØ
30#	BC109B	300m	300M§	2.0m	§J	30	20	5	100m	15uØ	5.0Ø	2.0mØ	330	60	4.5	2.0	2.5p$	PEØ	TO18	AØ
31#	BC109C	300m	300M§	2.0m	§J	30	20	5	100m	15uØ	5.0Ø	2.0mØ	600	110	8.7	3.0	2.5p$	PEØ	TO18	AØ
32#	BC167Δ	300m	300M§	2.2m	§J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0		PE	TO92	B
33#	BC168Δ	300m	300M§	2.2m	§J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2 0		PE	TO92	B
34#	BC169Δ	300m	300M§	2 2m	§J	30	20	5 0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0		PEØ	TO92	B
35#	BC169B	300m	300M§	2.4m	§J	30	20	5.0	50m	15nØ	5.0Ø	2.0mØ	290 †	30u	4.5k	2.0	4.5pØ	PEØ	TO92	B
36#	BC169C	300m	300M§	2.4m	§J	30	20	5 0	50m	15nØ	5.0Ø	2.0mØ	520 †	60u	8.7k	3.0	4.5pØ	PEØ	TO92	B
37#	BC173B	300m	300M§	3.0m	♦J		20	5.0	100m	15n	5.0Ø	2.0mØ	240 Δ	30u	4.5k	2.0	4.0p$	PE†	R204	A
38#	BC173C	300m	300M§	3.0m	♦J		20	5.0	100m	15n	5.0Ø	2.0mØ	450 Δ	60u	8.7k	3.0	4.0p$	PE†	R204	A
39#	BC237%	300m	300M§	3.0m	♦J	50	45	6.0	100m	15uØ†	5.0Ø	2.0mØ	125 Δ				2.5p$	PE	R207	A
40#	BC237A	300m	300M§	3.0m	♦J	50	45	5.0	100m	15nØ	5.0Ø	2 0mØ	220 †Ø	18u	2.7k	1.5	2.5p$	PEØ	R204	A
41#	BC237B	300m	300M§	3.0m	♦J	50	45	5.0	100m	15nØ	5.0Ø	2 0mØ	450 †Ø	30u	4.5k	2.0	2 5p$	PEØ	R204	A
42#	BC238%	300m	300M§	3.0m	♦J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	125 Δ				2.5p$	PE	R207	A
43#	BC238A	300m	300M§	3.0m	♦J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	220 †Ø	18u	2.7k	1.5	2.5p$	PEØ	R204	A
44#	BC238B	300m	300M§	3.0m	♦J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	450 †Ø	30u	4.5k	2.0	2.5p$	PEØ	R204	A
45#	BC238C	300m	300M§	3.0m	♦J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	800 †Ø	60u	8.7k	3.0	2.5p$	PEØ	R204	A
46#	BC239Δ	300m	300M§	2.2m	§J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	330 *	30u	4.5k	2.0	4.5pØ	PEØ	R204	A
47#	BC239%	300m	300M§	3.0m	♦J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	240 Δ				2.5p$	PEØ	R207	A
48#	BC239A	300m	300M§	3.0m	♦J	30	20	5.0	100m	5.0 Ø	5.0Ø	2.0mØ	200 Δ				2.5p$		TO92	
49#	BC239B	300m	300M§	3.0m	♦J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	450 †Ø	30u	4.5k	2.0	2.5p$	PEØ	R204	A
50#	BC239C	300m	300M§	3.0m	♦J	30	20	5.0	100m	15nØ	5.0Ø	2.0mØ	800 †Ø	60u	8.7k	3.0	2.5p$	PEØ	R204	A
51#	BC451	300m	300M§		♦J	50	45	5.0	100m	100n	6.0Ø	2.0mØ	800 †Ø				3.5p	E	R67a	
52#	BC452	300m	300M§		♦J	30	30	5.0	100m	100n	6.0Ø	2.0mØ	800 †Ø				3.5p	E	R67a	
53#	BC453	300m	300M§		♦J	30	30	5.0	100m	100n	6.0Ø	2.0mØ	800 †Ø				3.5p	E	R67a	
54#	BC454	300m	300M§		♦J	50	45	5.0	100m	100n	6.0Ø	2.0mØ	800 †Ø				4.0p	E	R67a	
55#	BC455	300m	300M§		♦J	30	30	5 0	100m	100n	6.0Ø	2.0mØ	800 †Ø				4.0p	E	R67a	
56#	BC456	300m	300M§		♦J	30	30	5.0	100m	100n	6.0Ø	2.0mØ	800 †Ø				4.0p	E	R67a	
57#	BFV83	300m	300M§Δ	588u	§J	40	15	5.0		25nØ	1.0Ø	500uØ	15 †Δ				6.0pØ	PEΔ	W5a	B
58#	BFV83A†	300m	300M§Δ	588u	§J	40	20	5.0		25nØ	1.0Ø	10mØ	30 †Δ#				6.0pØ	PE	W5a	B
59#	BSW42†	300m	300M§	3.0m	♦J	25	25	5.0	200m	.50u	4.5Ø	2.0mØ	130 †				4.0p	E	R110	A
60#	BSW42A†	300m	300M§	3.0m	♦J	50	50	7.0	200m	.50u	4.5Ø	2.0mØ	130 †				4.0p	E	R110	A
61#	BSW43†	300m	300M§	3.0m	♦J	25	25	5.0	200m	.50u	4.5Ø	2.0mØ	300 †				4.0p	E	R110	A
62#	BSW43A†	300m	300M§	3.0m	♦J	50	50	7 0	200m	50u	4.5Ø	2.0mØ	300 †				4.0p	E	R110	A
63#	BSX51†	300m	300M§	2.0m	§A	25	25	5.0	200m	500n	4.5Ø	2.0mØ	130 †				8.0pØ	PE	TO18	Ø
64#	BSX51A†	300m	300M§	2.0m	§A	50	50	7.0	200m	500n	4.5Ø	2.0mØ	130 †				8.0pØ	PE	TO18	Ø
65#	BSX52†	300m	300M§	2.0m	§A	25	25	5.0	200m	500n	4.5Ø	2.0mØ	300 †				8.0pØ	PE	TO18	Ø
66#	BSX52A†	300m	300M§	2.0m	§A	50	50	7.0	200m	.50u	4.5Ø	2.0mØ	300 †				8pØ	PE	TO18	
67#	BSX90†	300m	300M§Δ	2.0m	§J	20	12	5.0	200m	1.0u	.35Ø	10mØ	20 †#Δ				5pØ	DPE	TO18	AØ
68#	BSX91†	300m	300M§Δ	2.0m	§J	20	12	5 0	200m	1.0u	.35Ø	10mØ	40 †#Δ				5pØ	DPE	TO18	AØ
69▼	HSE311-RT	300m	300M§Δ	3.0m	♦J	40	30	3.0		100nØ	1.0Ø	100mØ	30 †Δ						R124d	A
70▼	HSE455-RT	300m	300M§Δ	3.0m	♦J	40	30	3.0		100nØ	1.0Ø	100mØ	30 †Δ						TO98	B
71#	MA4101	300m	300M§	2.4m	§J	60	45	5.0		10nØ	5.0Ø	1.0mØ	70 †Δ				2.5p	PE	TO18	
72#	MA4102	300m	300M§	2.4m	§J	60	45	5.0		10nØ	5.0Ø	1.0mØ	200 †Δ				2.5p	PE	TO18	
73#	MA4103	300m	300M§	2.4m	§J	50	40	5.0		10nØ	5.0Ø	1.0mØ	100 †Δ				2.5p	PE	TO18	
74#	MA4104	300m	300M§	2.4m	§J	25	25	4.0		50nØ	5.0Ø	1.0mØ	50 †Δ				2.5p	PE	TO18	
75#	BSY70	300m	320MΔ	2.0m	§J	25	20 §	3.0		50nØ	1.0Ø	10mØ	20 †Δ#				6.0pØ	Δ	TO18	Ø
76	UPI706	300m	320M	2.0m	#J	25	20	4.0		54mØ	1.0Ø	10mØ	20 †#Δ				6.0p	D	TO18	AØ
77	2N834†	300m	350M§Δ	2.0m	§J	40	30 Ø	5.0	200m	500nØ	1.0Ø	10mØ	25 †Δ				4.0pØ		TO18	AØ
78#	2S131	300m	350M	2.0m	§A	15	12	5.0	200m	1.0uØ	1.0Ø	10mØ	40				3.5p	E	TO18	
79#	2SC98†	300m	350M§		§J	20	15	5.0	100m	.10u	.35Ø	10mØ	45 †					PE	TO18	
80#	2SC99†	300m	350M§		§J	20	15	5.0	100m	.10u	.35Ø	10mØ	80 †					E	TO18	
81#	2SC172	300m	350M§	2 0m	§J	25	20 §	5.0	50m	.10uØ	6.0Ø	10m	60				5.0p	PL	TO18	
82▼#	2SC2035	300mØ	350M§	2.4m	§J	50	28	5.0	300m	100nØ	1.0Ø	10mØ	80 †					PE	R225	A
83	40220†	300m	350M§Δ	2.0m	§J	40	30 Ø	5.0	200m	500nØ	1.0Ø	10mØ	25 †Δ				4.0pØ	PE	TO52	Ø
84#	BC125B	300m	350M§		♦	60	30	6.0		50n	1.0Ø	10mØ	45 †Δ				5.0p	PE	TO105	A
85#	BCY57	300m	350M§		§J	25	20	5.0	100m	100nØ	5.0Ø	2.0mØ	500	17u	7.5k	3.5	4.5p$	PEØ	TO18	AØ
86#	BFR26	300m	350M§Δ	2.4m	§S	30	20	5.0	120m	10u§	.80Ø	50mØ	15 †Δ				2.0pØ	Δ	TO18	AØ
87#	BFV83B†	300m	350M§Δ	588u	§J	40	40	5.0	200m	.30u§	.40Ø	30mØ	30 †#Δ				5pØ	PE	W5a	B
88#	BFV83C†	300m	350M§Δ	588u	§J	40	40	5.0	200m	.30u§	.40Ø	10mØ	25 †#Δ				5pØ	PE	W5a	B
89#	BSY38†	300m	350M§	2.0m	§J	20	15	5.0	200m	100n	35Ø	10mØ	30 †Δ				5.0p	PE	TO18	Ø
90#	BSY39†	300m	350M§	2.0m	§J	20	15	5.0	200m	100n	.35Ø	10mØ	40 †Δ				5.0p	PE	TO18	Ø
91#	C444	300m	350M§	2.0m	§J	50	35	4.0		30nØ	5.0Ø	5.0mØ	80	30u	1.0k		3.0p	DPL	TO18	AØ
92#	ZT2938†	300m	350M§Δ	2.0m	§J	25	13	5.0	500m	25n#	1.0Ø	200mØ	10 †Δ#				4.0pØ	PE	TO18	Ø
93#	ZTX114	300m	350M§	2.0m	§S	30	25	6.0		200nØ	5.0Ø	2.0mØ	350 †					PEØ	X59	F
94	2N3828	300m	360M§Δ	3.0m	§S	40	40	3.0	100m	100nØ	20Ø	12mØ	30 †#Δ				5.0pØ		TO92	B
95#	BSY28†	300m	380M§	2.0m	§J	15	12	3.0	100m	.05uØ	2.0Ø	10mØ	34 †				3.5p	PEØ	TO18	
96#	BSY29†	300m	380M§	2.0m	§J	15	12	3.0	100m	.05uØ	2.0Ø	10mØ	54 †				3.5p	PEØ	TO18	
97	LDA410	300m	380MΔ§	2.9m	§J	40	35 §	4.0	25m	.10uØ	10Ø	5.0mØ	3.8 Δ				.3pØ	E	TO122	P
98	2N706	300m	400M§	6.6m	§J	25	20 §	3.0		500nØ	10	10mØ	20 †Δ#				6.0p	DME	TO18	AØ
99	2N706B†	300m	400M§	2.0m	§J	25	20 §	5.0		10u	1.0Ø	10mØ	40 †				4.5p	ME	TO18	AØ
100	2N707	300m	400M*		§J	56	28 §	4.0		5.0uØ	1.0Ø	10mØ	12				5.0p		TO18	AØ
101	2N3337	300m	400M§Δ	1 7m	§J	40	40	4.0	50m	25nØ	10Ø	4.0 Ø	30 Δ				1.6pØ	Ø	TO72	G
102	2N3338	300m	400M§Δ	1.7m	§J	40	40	4.0	50m	25nØ	10Ø	4.0 Ø	30 Δ				1.6pØ	Ø	TO72	G
103	2N3339	300m	400M§Δ	1.7m	§J	40	40	4.0	50m	25nØ	10Ø	4.0 Ø	30 Δ				1.6pØ	Ø	TO72	G
104	2N5186†	300m	400M§Δ	1.7m	§S	10	5.0	3.0	300m	5.0uØ	1.0Ø	10mØ	25 †Δ				3pØ		TO52	AØ
105	2N5187†	300m	400M§Δ	1.7m	§S	25	10	5.0	500m	.45uØ	1.0Ø	10mØ	30 †Δ				3.5pØ		TO52	AØ
106#	2SC356†	300m	400M§	2.0m	§J	30	15	5.0	200m	1.0uØ	1.0Ø	10mØ	60 †				4.5p	PE	TO46	AØ
107#	2SC979	300m	400M§		§J	70	50	5.0	100m	1.0uØ	1.0Ø	10mØ	70 †				3.0p	PE	TO18	A
108#	2SC1129	300m	400M§	4.0m	§S		35	3.0	30m	200nØ	10Ø	4.0mØ	20 †Δ				450ft	E†	TO92	C
109#	2SC1293	300m	400M§	3.0m	♦J	25	25	3.0	50m	1.0uØ	6 0Ø	1.0mØ	120 †Ø*					E	R195a	B
110	40217†	300m	400M§	2.0m	§J	25	20 §	3.0		500nØ	1.0Ø	10mØ	20 †Δ				5.0p	PE	TO52	Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1	MPS3394	310m		2.9m	†J		25		5.0					170 †☑				3.5p☑	AN	TO92		
2	MPS3395	310m		2.9m	†J		25		5.0					150 †△				3.5p☑	AN	TO92		
3	MPS3396	310m		2.9m	†J		25		5.0					90 †△				3.5p☑	AN	TO92		
4	MPS3397	310m		2.9m	†J		25		5.0					500 †☑				3.5p☑	AN	TO92		
5	MPS3398	310m		2.9m	†J		25		5.0					800 †☑				3.5p☑	AN	TO92		
6	MPS3707	310m		2.9m	†J		30		6.0					400 †☑					ANØ	TO92		
7	MPS3708	310m		2.9m	†J		30		6.0					660 †☑					ANØ	TO92		
8	MPS3709	310m		2.9m	†J		30		6.0					165 †☑					ANØ	TO92		
9	MPS3710	310m		2.9m	†J		30		6.0					330 †☑					ANØ	TO92		
10	MPS3711	310m		2.9m	†J		30		6.0					180 †△					ANØ	TO92		
11	MPS6541	310m		2.9m	†J		30		4.0									1.7p	AN	TO92		
12	MPS6544	310m		2.9m	†J		60		4.0										AN	TO92		
13	MPS6545	310m		2.9m	†J		60		4.0										AN	TO92		
14	MPS6564	310m		2.8m	†J			45	5.0	50m	500nØ	5.0Ø	10mØ	25 †△#				4.0p	PE	TO92		A
15	MPS6567	310m		2.9m	†J		40		5.0					25 †△				.7p☑	AN	TO92		
16	HEP54-RT	310m♦	30M§		†J		30	20 $	5.0	200m$	200n$	20		350 †						TO92		A
17	HEP731-RT	310m♦	30M§		†J		20	20 $	4.0	25m$	500n$	5.0		130 †						TO92		A
18▼	HSE419-RT	310m	40M§△	3.1m	♦J		140	120	5.0		1.0uØ	5.0Ø	10mØ	100 †△						TO92		A
19▼	HSE412-RT	310m	50M§△	3.1m	♦J		70	70	4.0		100nØ	1.0Ø	10mØ	60 †△						TO92		A
20▼	HSE415-RT	310m	50M§△	3.1m	♦J		25	25	4.0		100n	5.0Ø	10mØ	250 †△						TO92		A
21▼	HSE416-RT	310m	50M§△	3.1m	♦J		30	25	4.5		100nØ	5.0Ø	10mØ	400 †△						TO92		A
22▼	HSE411-RT	310m	60M§△	3.1m	♦J		60	50	5.0		100nØ	1.0Ø	10mØ	60 †△						TO92		A
23▼	HSE417-RT	310m	60M§△	3.1m	♦J		45	40	4.0		50nØ	5.0Ø	10mØ	120 †△						TO92		A
24▼	HSE418-RT	310m	60M§△	3.1m	♦J		25	25	4.0		100nØ	5.0Ø	10mØ	200 †△						TO92		A
25	MPS6591	310m	60M§△	2.8m	$J		60	50	4.0	250m	100nØ	10Ø	10mØ	40 †△	75u	1.4k	800m	12p$☑	ANØ	R210		A
26	MPSA09	310m	80M§	2.8m	†J		50	50		50m	100nØ	5.0Ø	100uØ	100 △†				5.0p☑	ANØ	TO92		A
27	HEP733-RT	310m♦	100M§		†J		30	20 $	4.0	100m$	500n$	5.0		95 †						TO92		A
28	HEP737-RT	310m♦	100M§		†J		30	25 $	6.0	100m$	100u$	5.0		600 †						TO92		A
29	HEP738-RT	310m♦	100M§		†J		45	40 $	7.0	100m$	50n$	10		250 †						TO92		A
30▼	HSE420-RT	310m	100M§△	3.1m	♦J		160	160	5.0		100nØ	5.0Ø	10mØ	100 †△						TO92		A
31	MPS3704	310m	100M§△	2.8m	†J		50	30	5.0	600m	.10uØ	2.0Ø	50mØ	100 †△#				12p☑	AN	TO92		A
32	MPS3705	310m	100M§△	2.8m	†J		50	30	5.0	600m	.10uØ	2.0Ø	50mØ	50 †△#				12p☑	AN	TO92		A
33	MPS3706	310m	100M§△	2.8m	†J		40	20	5.0	600m	.10uØ	2.0Ø	50mØ	30 †△#				12p☑	AN	TO92		A
34	NPC290	310m	100M§	2.5m	$S		40	35	5.0	100m	50nØ	5.0Ø	2.0 Ø	1.1kt☑				5.0p☑	E	TO92		A
35	HEP735-RT	310m♦	150M§		†J		45	40 $	6.0	600m$	100n$	20		300 †						TO92		A
36	HEP736-RT	310m♦	150M§		†J		55	50 $	6.0	600m$	100n$	20		140 †						TO92		A
37▼	HSE408-RT	310m	150M§△	3.1m	♦J		50	40	5.0		10nØ	1.0Ø	150mØ	100 †△						TO92		A
38	PTC139-RT	310m	150M§△				33	30	7.0	100m	100uØ	8.0Ø	5.0mØ	700 †						TO92		A
39	HEP730-RT	310m♦	175M§		†J		30	25 $	4.5	50m$	100n$	15		600 †						TO92		A
40	MPS6571	310m	175M§	2.8m	†J		20	20	3.0	50m	50n	5.0Ø	100uØ	250 †△				4.5p☑	ANT☑	R196b		A
41#	BCX19	310m	200M§	2.5m	$J		50	45	5.0	500m	100nØ	1.0Ø	100mØ	100 †△				5.0p$	PE†	X156		A
42#	BCX19R	310m	200M§	2.5m	$J			45	5.0	500m	100n	1.0Ø	100mØ	100 †△				5.0p$	PE†	X156		C
43#	BCX20	310m	200M§	2.5m	$J		30	25	5.0	500m	100nØ	1.0Ø	100mØ	100 †△				5.0p$	PE†	X156		A
44#	BCX20R	310m	200M§	2.5m	$J			25	5.0	500m	100n	1.0Ø	100mØ	100 †△				5.0p$	PE†	X156		C
45	HEP55-RT	310m♦	200M§		†J		30	25 $	5.0	200m$	100n$	20		350 †						TO92		A
46	HEP722-RT	310m♦	200M§		†J		25	25 $	4.0	100m$	100n$	15		60 †						TO92		A
47	HEP723-RT	310m♦	200M§		†J		25	25 $	4.0	100m$	100n$	15		90 †						TO92		A
48	HEP724-RT	310m♦	200M§		†J		25	25 $	4.0	100m$	100n$	15		160 †						TO92		A
49	HEP725-RT	310m♦	200M§		†J		25	25 $	4.0	100m$	100n$	15		250 †						TO92		A
50	HEP726-RT	310m♦	200M§		†J		25	25 $	4.0	100m$	100n$	15		350 †						TO92		A
51	HEP727-RT	310m♦	200M§		†J		25	20 $	4.0	100m$	500n$	5.0		50 †						TO92		A
52	HEP728-RT	310m♦	200M§		†J		45	45 $	4.0	100m$	50n$	20		180 †						TO92		A
53	HEP729-RT	310m♦	200M§		†J		45	45 $	4 0	100m$	500n$	30		100 †						TO92		A
54	HEP732-RT	310m♦	200M§		†J		20	20 $	4.0	25m$	500n$	5.0		45 †						TO92		A
55	HEP734-RT	310m♦	200M§		†J		40	20 $	4.0	25m$	500n$	5.0		75 †						TO92		A
56	HEPS0005-RT	310m♦	200M§		†J		180	160 $	6.0	600m$	50n$Ø			180 †						TO92		A
57	HEPS0007-RT	310m♦	200M§		†J		70	70 $	4.0	50m$	100n$Ø			125 †						TO92		A
58▼	HSE401-RT	310m	200M§△	3.1m	♦J		45	40	4.0		10nØ	1.0Ø	10mØ	80 †△						TO92		A
59▼	HSE423-RT	310m	200M§△	3.1m	♦J		50	30	5.0		100nØ	1.0Ø	100mØ	50 †△						TO92		A
60	MPS706†	310m	200M§△	2.8m	†J		25	15 *	3.0		500nØ	1.0Ø	10mØ	20 †#△				6.0p☑	AN†	R196b		A
61	MPS706A†	310m	200M§△	2.8m	†J		25	15 *	5.0		500nØ	1.0Ø	10mØ	20 †#△				6.0p☑	AN†	R196b		A
62	MPS3693	310m	200M§△	2.8m	†J		45	45	4.0		50nØ	10Ø	10mØ	40 †△				3.5p☑	Ø	TO92		
63	MPS3694	310m	200M§△	2.8m	†J		45	45	4.0		.05uØ	10Ø	10mØ	100 †△				3.5p☑	EA	TO92		A
64	MPS3826	310m	200M§△	2.8m	†J		60	45	4	50m	100nØ	10Ø	10mØ	40 †△#				3.5p	PE	TO92		A
65	MPS3827	310m	200M§△	2.8m	†J		60	45	4.0	30m	.10uØ	10Ø	10mØ	100 †△#				3.5p☑		TO92		A
66	MPS6565	310m	200M§△	2.9m	†J		60		4.0					40 †△				3.5p☑	ANØ	TO92		
67	MPS6566	310m	200M§△	2.9m	†J		60		4.0					100 †△				3.5p☑	ANØ	TO92		
68	MPS6573	310m	200M§☑	2.7m	$J		35	35	4.0	100m	100nØ	5.0Ø	100uØ	100 †△				12p☑	AØ	R210		A
69	MPS6574	310m	200M§☑	2.7m	$J		35	35	4.0	100m	100nØ	5.0Ø	1.0mØ	100 †*				12p☑	AØ	R210		A
70	MPS6575	310m	200M§☑	2.7m	$J		45	45	4.0	100m	100nØ	5.0Ø	100uØ	100 †△				12p☑	AØ	R210		A
71	MPS6576	310m	200M§☑	2.7m	$J		45	45	4.0	100m	100nØ	5.0Ø	1.0mØ	100 †*				12p☑	AØ	R210		A
72#	2SC1766	310m	230M§	3.1m	♦J		30	30	5.0	100m	500nØ	12Ø	2.0mØ	150 †	11u	16k	700m	3.5p☑	E	TO92		A
73	A5T4123†	310m	250M§△	2.8m	†S		40	30	5.0	200m	50nØ	10Ø	2.0mØ	50 △				4.0p☑	PEØ	R203		A
74	BF368	310m	250M§△	2.8m	†J		25	15	4.0	50m	100nØ	10Ø	1.0mØ	35 †△				1.7p☑	ANØ	R210b		A
75	EN3903†	310m	250M§△	2.8m	†J		60	40	5.5	200m	50n#	10Ø	1.0mØ	50 △	40u☑	8.0kØ	5.0 ☑	4.0p☑	DPEØ	TO106		A
76	GET3903	310m	250M§△	2.8m	†J		60	40	6.0	200m	50n#	10Ø	10mØ	50 △	40u☑	8.0k	5.0 ☑	4.0p$☑	Ø	R203a		B
77	MPS2713†	310m	250M§	2.8m	†J		18	18	5.0	200m	.50u	4 5Ø	2.0mØ	120 ☑		3.0k		2.5p	EA	TO92		A
78	MPS2714†	310m	250M§	2.8m	†J		18	18	5.0	200m	.50u	4.5Ø	2.0mØ	300 ☑		3.0k		2.5p	EA	TO92		A
79	MPS3642	310m	250M§△	2.8m	†J		60	45	5.0	500m	50n§	10Ø	150mØ	40 †△#				8.0p	PE	TO92		A
80	HEP721-RT	310m♦	260M§		†J		30	30 $	5.0	500m$	100n$	20		350 †						TO92		A
81	BC317	310m	280M§	2.8m	†J		50	45	6.0	150m	30n	5.0Ø	2.0 Ø	110 †△#				4.0p	PEØ	TO92		A
82	BC317A	310m	280M§	2.8m	†J		50	45	6.0	150m	30n	5.0Ø	2.0 Ø	220 †☑#				4.0p	PEØ	TO92		A
83	BC317B	310m	280M§	2.8m	#J		50	45	6.0	150m	30n	5.0Ø	2.0 Ø	200 †△#				4.0p	PEØ	TO92		A
84	BC318	310m	280M§	2.8m	#J		30	20	5.0	150m	30n	5.0Ø	2.0 Ø	110 †△#				4.0p	PEØ	TO92		A
85	BC318A	310m	280M§	2.8m	†J		30	20	5.0	150m	30n	5.0Ø	2.0 Ø	220 †☑#				4.0p	PEØ	TO92		A
86	BC318B	310m	280M§	2.8m	†J		30	20	5.0	150m	30n	5.0Ø	2.0 Ø	200 †△#				4.0p	PEØ	TO92		A
87	BC318C	310m	280M§	2.8m	†J		30	20	5.0	150m	30n	5.0Ø	2.0 Ø	420 †△#				4.0p	PEØ	TO92		A
88	BC319	310m	280M§	2.8m	†J		30	20	5.0	150m	30n	5.0Ø	2.0mØ	200 †△#				4.0p	PEØ	TO92		A
89	BC319B	310m	280M§	2.8m	†J		30	20	5.0	150m	30n	5.0Ø	2.0mØ	450 †☑#				4.0p	PEØ	TO92		A
90	BC319C	310m	280M§	2.8m	†J		30	20	5.0	150m	30n	5.0Ø	2.0mØ	420 †△#				4.0p	PEØ	TO92		A
91	2N4264†	310m	300M§△	2.8m	†S		30	15	6.0	200m	.1u#Ø	1.0Ø	10mØ	40 †△				4.0p☑		TO92		A
92	2N4265†	310m	300M§△	2.8m	†S		30	12	6.0	200m	.1u#Ø	1.0Ø	10mØ	100 †△				4p☑		TO92		A
93	A5T4124†	310m	300M§△	2.8m	†S		30	25	5.0	200m	50nØ	10Ø	2.0mØ	120 △				4.0p☑	PEØ	R203		A
94	BCY58IX☑†	310m*	300M§	2.0m	§J			32	7.0	200m	10n♦	5.0Ø	2.0mØ	330	30u	4.5k	2.0	3.7p$	ANØ	TO18		AØ
95	BCY58VII☑†	310m*	300M§	2.0m	§J			32	7.0	200m	10n♦	5.0Ø	2.0mØ	200	18u	2.7k	1.5	3.7p$	ANØ	TO18		AØ
96	BCY58VIII☑†	310m*	300M§	2.0m	§J			32	7.0	200m	10n♦	5.0Ø	2.0mØ	260	24u	3.6k	2.0	3.7p$	ANØ	TO18		AØ
97	BCY58X☑†	310m*	300M§	2.0m	§J			32	7.0	200m	10n♦	5.0Ø	2.0mØ	520	50u	7.5k	3.0	3.7p$	ANØ	TO18		AØ
98	BCY59IX☑†	310m*	300M§	2.0m	§J			45	7.0	200m	10n♦	5.0Ø	2.0mØ	330	30u	4.5k	2.0	3.7p$	ANØ	TO18		AØ
99	BCY59VII☑†	310m*	300M§	2.0m	§J			45	7.0	200m	10n♦	5.0Ø	2.0mØ	200	18u	2.7k	1.5	3.7p$	ANØ	TO18		AØ
100	BCY59X☑†	310m*	300M§	2.0m	§J			45	7.0	200m	10n♦	5.0Ø	2.0mØ	520	50u	7.5k	3.0	3.7p$	ANØ	TO18		AØ
101	EN3904†	310m	300M§△	2.8m	†J		60	40	5.5	200m	50n#	10Ø	1.0mØ	100 △	40u☑	10k☑	8.0 ☑	4.0p☑	DPEØ	TO106		A
102	GET3904	310m	300M§△	2.8m	†J		60	40	6.0	200m	50n#	10Ø	10mØ	100 △	40u☑	10k	8.0 ☑	4.0p$☑	Ø	R203a		B
103▼	HSE405-RT	310m	300M§△	3.1m	♦J		30	20	4.0		40nØ	1.0Ø	50mØ	50 †△						TO92		A
104	MPS2926	310m	300M§	2.9m	†J		18		5.0					470 †☑				3.5p☑	AN	TO92		
105	MPS3721	310m	300M§	2.8m	†J		18	18	5.0	100m	500n	10Ø	2.0mØ	60 †△				3.5p☑		TO92		A
106	MPS6569	310m	300M§△	2.9m	†J		20		3.0									.5p†	AN	TO92		
107	MPS6570	310m	300M§△	2.9m	†J		20		3.0									.5p†	AN	TO92		
108	MPSH19	310m	300M§△	2.8	†J		30	25	3.0		100nØ	10Ø	4.0mØ	45 †△				650f$☑	E	TO92		C
109	MPSH31	310m	300M§△	2.8m	†J		20	20	3.0		50nØ	5.0Ø	4.0mØ	20 †△				650f$☑	ANØ	TO92		C
110	MPSH37	310m	300M§△	2.8m	†J			40	5 0		500n	10Ø	5.0mØ	25 †△				700ft☑	AN	TO92		C

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1	MPSA17	350m	80M§Δ	2.7m	§J		40	15	100m	100n	10Ø	5.0mØ	200 †Δ				4.0pØ☑	AN	TO92	A
2▼	HSE454-RT	350m	90M§Δ	3.5m	♦J	65	50	5.0		1.0uØ	1.0Ø	10mØ	100 †Δ						TO98	B
3	2N5220	350m	100M§Δ	2.8m	§S	15	15	3.0	500m	100nØ	10Ø	50mØ	30 Δ				10p$☑		TO92	A
4	2N5550	350m	100M§Δ	2.8m	§J	160	140	6.0	600m	100nØ	10Ø	1.0mØ	50 Δ				6.0p☑		TO92	A
5	2N5551	350m	100M§Δ	2.8m	§J	180	160	6.0	600m	50nØ	10Ø	1.0mØ	50 Δ				6.0p☑	Ø	TO92	A
6#	BCW65EA†	350m	100M§Δ		§J		32	5.0	800m		1.0Ø	100mØ	100 †Δ				12p☑	PE	X156	
7#	BCW65EB†	350m	100M§Δ		§J		32	5.0	800m		1.0Ø	100mØ	160 †Δ				12p☑	PE	X156	
8#	BCW65EC†	350m	100M§Δ		§J		32	5.0	800m		1.0Ø	100mØ	250 †Δ				12p☑	PE	X156	
9#	BCW66EF†	350m	100M§Δ		§J		45	5.0	800m		1.0Ø	100mØ	100 †Δ				12p☑	PE	X156	
10#	BCW66EG†	350m	100M§Δ		§J		45	5.0	800m		1.0Ø	100mØ	160 †Δ				12p☑	PE	X156	
11#	BCW66EH†	350m	100M§Δ		§J		45	5.0	800m		1.0Ø	100mØ	250 †Δ				12p☑	PE	X156	
12#	BCX41	350m	100M§	2.7m	§J		125	5.0	800m	100n§								PL	X156c	A
13▼	MMBT-A06	350m	100M§Δ	2.8m	§S		80 $	4.0		100n	1.0Ø	10mØ	50 †Δ						X156d	A
14	MPS8001	350m	100M§Δ	2.8m	§J		25	3.0	100m	1.0u	1.0Ø	10mØ	40 †Δ					AN	R210	A
15	MPSA16	350m	100M§Δ	2.7m	§J		40	12	100m	100n	10Ø	5.0mØ	200 †Δ				4.0pØ☑	AN	TO92	A
16	MPSD05	350m	100M§Δ	2.8m	§J	25	25		500m	1.0uØ	5.0Ø	50mØ	50 †Δ#					AN†	TO92	A
17	MPSD06	350m	100M§Δ	2.8m	§J		25	4.0	50m	1.0 Ø	5.0Ø	1.0mØ	40 †Δ					AN†	TO92	A
18#	ZT20†	350m	110M§	2.7m	§J	20	20	6.0	50m	500n	6.0Ø	1.0mØ	30	2.5u	1.3k	1.1	5.0p		TO5	Ø
19#	ZT21†	350m	110M§	2.7m	§J	20	20	6.0	50m	500n	6.0Ø	1.0mØ	30	2.5u	1.3k	1.1	5.0p		TO5	Ø
20#	ZT22†	350m	110M§	2.7m	§J	45	45	6.0	50m	500n	6.0Ø	1.0mØ	50	2.5u	1.6k	1.1	5.0p		TO5	Ø
21#	ZT23†	350m	110M§	2.7m	§J	45	45	6.0	50m	500n	6.0Ø	1.0mØ	50	2.5u	1.6k	1.1	5.0p		TO5	Ø
22#	ZT24†	350m	110M§	2.7m	§J	45	45	6.0	50m	500n	6.0Ø	1.0 Ø	65	2.5u	2.0k	1.1	5.0p		TO5	Ø
23	MPS5172	350m	120M§	2.8m	§J	25	25	5.0	100m	100n	10Ø	10mØ	100 Δ				10p$☑	AN†	TO92	A
24#	ZT60†	350m	120M§Δ	2.7m	§J	25	25	4.0	500m	500n	6.0Ø	1.0 Ø	55				8.0p☑	PEØ	TO5	Ø
25#	ZT61†	350m	120M§Δ	2.7m	§J	45	35	4.0	500m	500n	6.0Ø	1.0 Ø	55				8.0p☑	PEØ	TO5	Ø
26#	ZT62†	350m	120M§Δ	2.7m	§J	45	35	4.0	500m	500n	6.0Ø	1.0 Ø	90				8.0p☑	PEØ	TO5	Ø
27#	ZT63†	350m	120M§Δ	2.0m	§J	60	45	5.0	500m	50n	6.0Ø	1.0 Ø	55				8.0p☑	PEØ	TO5	Ø
28#	ZT64†	350m	120M§Δ	2.0m	§J	60	45	5.0	500m	50n	6.0Ø	1.0 Ø	90				8.0p☑	PEØ	TO5	Ø
29#	ZT66†	350m	120M§Δ	2.0m	§J	100	80	5.0	500m	50n	6.0Ø	1.0 Ø	55				8.0p☑	PEØ	TO5	Ø
30▼	MMBT-A20	350m	125M§Δ	2.8m	§S		40 $	4.0		100n	10Ø	5.0mØ	40 †Δ				4.0pØ☑		X156d	A
31#	BFW60†	350m	130M§	3.5m	♦J	40	35	6.0	500m	500n	10Ø	10mØ	75	20u	400	1.0	7.0p$	PE†	S1	A
32	2N3641	350m	150M§Δ	3.5m	♦J	60	30	5.0	500m	50n§	10Ø	150mØ	40 †Δ#				8 0pØ☑		R110a	A
33	2N3642	350m	150M§Δ	3.5m	♦J	60	45	5.0	500m	50n§	10Ø	150mØ	40 †Δ#				8.0pØ☑		R110a	A
34	2N5219	350m	150M§Δ	2.8m	§S	20	15	3 0	100m	100nØ	10Ø	2.0mØ	35 Δ				4.0p$☑		TO92	A
35	2N5223	350m	150M§Δ	2.8m	§S	25	20	3.0	100m	100nØ	10Ø	2.0mØ	50 Δ				4.0p$☑		TO92	A
36#	2SC1781H†	350m	150M§	2.3m	§J	70	50	5.0	500m	500nØ	3.0Ø	10mØ	80 †Δ				20pØ☑	PE	TO18	A
37♦#	2SC1849	350m	150M§	3.2m	†J	30	25	5.0	200m#	1.0uØ	10Ø	2.0mØ	150 †				3.5p	PE	TO92	A
38♦#	2SC1850	350m	150M§	3.2m	†J	60	50	5.0	200m#	1.0uØ	10Ø	2.0mØ	150 †				3.5p	PE	TO92	A
39#	BFS38	350m	150M§Δ	2.3m	§J	45	35 ☑	5.0	500m#	50n	6.0Ø	100uØ	20 Δ†				5.0pØ☑		X155	F
40#	BFS38A	350m	150M§Δ	2.3m	§J	25	25 ☑	5.0	500m#	500n	6.0Ø	10mØ	50 Δ†				5.0pØ☑		X155	F
41#	BFS39	350m	150M§Δ	2.3m	§J	60	45 ☑	5.0	500m#	50n	6.0Ø	10mØ	40 Δ†				5.0pØ☑		X155	F
42#	BFX50†	350m	150M§Δ	2.0m	§J	80	35	6.0	1.0	100nØ	10	150mØ	30 †Δ				12p	PE	TO18	AØ
43	MD2060F*	350m	150M§Δ	2.0m	§J	100	60	7.0	500m	2.0nØ	5.0Ø	10uØ	25 †Δ#				15pØ☑	AN	X22	PB
44	MPS8098	350m	150M§Δ	2.8m	§J	60	60 #	6.0	200m	100n	5.0Ø	1.0 Ø	100 †Δ#				6.0pØ☑	AN	TO92	A
45	MPS8099	350m	150M§Δ	2.8m	§J	80	80 #	6.0	200m	100n	5.0Ø	1.0 Ø	100 †Δ#				6.0pØ☑	AN	TO92	A
46	MPSA18	350m	160M§	2.8m	§J	45	45	6.5	200m	50nØ	5.0Ø	10mØ	1.1k†#				1.7p$	ANØ	TO92	A
47	BF394	350m	180M§	2.8m	§J	30	30	5.0	100m	100nØ	10Ø	1.0mØ	65 †Δ				900ft	ANØ	R210a	C
48	BF394B	350m	180M§	2.8m	§J	30	30	5.0	100m	100nØ	10Ø	1.0mØ	160 †				900ft	ANØ	R210a	C
49	BF395	350m	180M§	2.8m	§J	30	30	5.0	100m	100nØ	10Ø	1.0mØ	35 †Δ				900ft	ANØ	R210a	C
50	BF395C	350m	180M§	2.8m	§J	30	30	5.0	100m	100nØ	10Ø	1.0mØ	95 †				900ft	ANØ	R210a	C
51	BF395D	350m	180M§	2.8m	§J	30	30	5.0	100m	100nØ	10Ø	1.0mØ	65 †				900ft	ANØ	R210a	C
52	2N4400†	350m	200M§Δ	2.8m	§J	60	40	6.0	600m	100n#	10Ø	1.0mØ	20 Δ	30u☑	7.5k☑	8.0 ☑	6.5p$☑		TO92	A
53	BC237	350m	200M§	2 8m	§J		45	5.0	100m	15n§	5.0Ø	2.0mØ	120 †Δ				4.5p$☑	ANØ	R210a	F
54	BC237-5	350m	200M§	2.8m	§J		45	5.0	100m	15n§	5.0Ø	2.0mØ	120 †Δ				4.5p$☑	ANØ	W50	F
55	BC237-18	350m	200M§	2.8m	§J		45	5.0	100m	15n§	5.0Ø	2.0mØ	120 †Δ				4.5p$☑	ANØ	R204e	A
56	BC237A5	350m	200M§	2.8m	§J		45	5 0	100m	15n§	5.0Ø	2.0mØ	220	8.0u	2.2k	1.5	4.5p$☑	ANØ	R207	A
57	BC237A18	350m	200M§	2.8m	§J		45	5.0	100m	15n§	5.0Ø	2.0mØ	220	8.0u	2.2k	1.5	4.5p$☑	ANØ	R204e	A
58	BC237A☑	350m	200M§	2.8m	§J		45	5.0	100m	15n§	5.0Ø	2.0mØ	220	8.0u	2.2k	1.5	4.5p$☑	ANØ	R210a	F
59	BC237B5	350m	200M§	2.8m	§J		45	5.0	100m	15n§	5.0Ø	2.0mØ	330	10u	6.0k	2.0	4.5p$☑	ANØ	R207	A
60	BC237B18	350m	200M§	2.8m	§J		45	5.0	100m	15n§	5.0Ø	2.0mØ	330	10u	6.0k	2.0	4.5p$☑	ANØ	R204e	A
61	BC237B☑	350m	200M§	2.8m	§J		45	5.0	100m	15n§	5.0Ø	2.0mØ	330	10u	6.0k	2.0	4.5p$☑	ANØ	R210a	F
62	BC237C5	350m	200M§	2.8m	§J		45	5.0	100m	15n§	5.0Ø	2.0mØ	600	12u	8 7k	3.0	4.5p$☑	ANØ	R207	A
63	BC237C18	350m	200M§	2.8m	§J		45	5.0	100m	15n§	5.0Ø	2.0mØ	600	12u	8.7k	3.0	4.5p$☑	ANØ	R204e	A
64	BC237C	350m	200M§	2.8m	§J		45	5.0	100m	15n§	5 0Ø	2.0mØ	600	12u	8.7k	3.0	4.5p$☑	ANØ	R210a	F
65▼	MMBT3904	350m	200M§Δ	2.8m	§S	60	40	6.0			1.0Ø	100uØ	40 †Δ				4.0pØ☑	Ø	X156d	A
66	MPS8097	350m	200M§Δ	2.8m	§J	60	40 *	6.0	200m	10u	5.0Ø	100uØ	250 Δ				4.0pØ☑	ANØ	TO92	A
67▼#	2SC282H†	350m	220M§☑	2.3m	§J	30	20	5.0	100m	100nØ	6.0Ø	10mØ	5.0 Δ*				10pØ☑	E	TO1	A
68▼#	2SC284H†	350m	220M§☑	2.3m	§J	70	25	5.0	100m	100nØ	6.0Ø	10mØ	5.0 Δ*				10pØ☑	E	TO1	A
69	BC238	350m	240M§	2.8m	§J		20	5.0	100m	15n§	5.0Ø	2.0mØ	120 †Δ				4.5p$☑	ANØ	R210a	F
70	BC238-5	350m	240M§	2.8m	§J		20	5.0	100m	15n§	5.0Ø	2.0mØ	120 †Δ				4.5p$☑	ANØ	R207	A
71	BC238-18	350m	240M§	2.8m	§J		20	5.0	100m	15n§	5.0Ø	2.0mØ	120 †Δ				4.5p$☑	ANØ	R204e	A
72	BC238A5	350m	240M§	2.8m	§J		20	5.0	100m	15n§	5.0Ø	2.0mØ	220	8.0u	2.2k	1.5	4.5p$☑	ANØ	R207	A
73	BC238A18	350m	240M§	2.8m	§J		20	5.0	100m	15n§	5.0Ø	2.0mØ	220	8.0u	2.2k	1.5	4.5p$☑	ANØ	R204e	A
74	BC238A☑	350m	240M§	2.8m	§J		20	5.0	100m	15n§	5.0Ø	2.0mØ	220	8.0u	2.2k	1.5	4.5p$☑	ANØ	R210a	F
75	BC238B5	350m	240M§	2.8m	§J		20	5.0	100m	15n§	5.0Ø	2.0mØ	330	10u	6.0k	2.0	4.5p$☑	ANØ	R207	A
76	BC238B18	350m	240M§	2.8m	§J		20	5.0	100m	15n§	5.0Ø	2.0mØ	330	10u	6.0k	2.0	4.5p$☑	ANØ	R204e	A
77	BC238B☑	350m	240M§	2.8m	§J		20	5.0	100m	15n§	5.0Ø	2.0mØ	330	10u	6.0k	2.0	4.5p$☑	ANØ	R210a	F
78	BC238C5	350m	240M§	2.8m	§J		20	5.0	100m	15n§	5.0Ø	2.0mØ	600	12u	8.7k	3.0	4.5p$☑	ANØ	R207	A
79	BC238C18	350m	240M§	2.8m	§J		20	5.0	100m	15n§	5.0Ø	2.0mØ	600	12u	8.7k	3.0	4.5p$☑	ANØ	R204e	A
80	BC238C☑	350m	240M§	2.8m	§J		20	5.0	100m	15n§	5.0Ø	2.0mØ	600	12u	8.7k	3.0	4.5p$☑	ANØ	R210a	F
81	2N3643	350m	250M§Δ	3.5m	♦J	60	30	5.0	500m	50n§	10Ø	150mØ	100 †Δ#				8.0pØ☑		R110a	A
82	2N3903†	350m	250M§Δ	2.8m	§J	60	40	6.0	200m	50n#	10Ø	1.0mØ	50 Δ	40u☑	8.0k☑	5.0 ☑	4.0pØ☑	Ø	TO92	A
83	2N4123	350m	250M§Δ	2.8m	§J	40	30	5.0	200m	.05uØ	10Ø	2.0mØ	50 Δ				4.0p$☑	Ø	TO92	A
84	2N4401†	350m	250M§Δ	2.8m	§J	60	40	6.0	600m	100n#	10Ø	1.0mØ	40 Δ	30u☑	15k☑	8.0 ☑	6.5p$☑		TO92	A
85	2N5224†	350m	250M§Δ	2.8m	§S	25	12	5.0	100m	500nØ	1.0Ø	10mØ	40 †Δ				4.0p$☑		TO92	A
86	2N6503*	350m	250M§Δ	2.0m	§S	80	40	6.0	1.0	1.7uØ	1.0Ø	500mØ	10 †Δ				10pØ☑$	Δ	X22	PB
87#	2SC204†	350m	250M§	2.3m	§J	30	20	5.0	200m	50nØ	6.0Ø	2.0m	70		80		4.0p	PE	TO18	AØ
88	BC445	350m	250M§	2.8m	§J	60	60	5.0	200m	100nØ	5.0Ø	1.0mØ	150 †#				3.0p	AN	R210a	F
89	BC445-5	350m	250M§	2.8m	§J	60	60	5.0	200m	100nØ	5.0Ø	1.0mØ	150 †#				3.0p	AN	R207	A
90	BC445-18	350m	250M§	2.8m	§J	60	60	5.0	200m	100nØ	5.0Ø	1.0mØ	150 †#				3.0p	AN	R204e	A
91	BC447	350m	250M§	2.8m	§J	80	80	5.0	200m	100nØ	5.0Ø	1.0mØ	150 †#				3.0p	AN	R210a	F
92	BC447-5	350m	250M§	2.8m	§J	80	80	5.0	200m	100nØ	5.0Ø	1.0mØ	150 †#				3.0p	AN	R207	A
93	BC447-18	350m	250M§	2.8m	§J	80	80	5.0	200m	100nØ	5.0Ø	1.0mØ	150 †#				3.0p	AN	R204e	A
94	BC449	350m	250M§	2.8m	§J	100	100	5.0	200m	100nØ	5.0Ø	1.0mØ	150 †#				3.0p	AN	R210a	F
95	BC449-5	350m	250M§	2.8m	§J	100	100	5.0	200m	100nØ	5.0Ø	1.0mØ	150 †#				3.0p	AN	R207	A
96	BC449-18	350m	250M§	2.8m	§J	100	100	5.0	200m	100nØ	5.0Ø	1.0mØ	150 †#				3.0p	AN	R204e	A
97▼#	BSS79†	350m	250M§Δ	2.8m	§J	75	40	6.0	800m	10uØ	10Ø	150mØ	40 Δ†				8.0p$☑	PE	X156a	A
98#	BSW41†	350m	250M§Δ	2.0m	§J	40	25	5.0	300m	500nØ	10Ø	10mØ	30 †Δ				8.0p$☑	PE	TO18	AØ
99	EN2219	350m	250M§Δ	3.6m	♦J	60	30 *☑	5.0	800m	.05uØ	10Ø	.10mØ	35 †Δ				8pØ☑	PEΔ	TO105	A
100	MD1129F*	350m	250M§	2.0m	§J	60	30	5.0	500m	10nØ	10Ø	10uØ	60 †Δ#				8.0pØ☑	AN	X22	PB
101	MD2218AF*	350m	250M§	2.0m	§J	75	40	6.0	500m	15n#	10Ø	100nØ	50 †#				3.5p	ANΔ	X22	PB
102	MD2218F*	350m	250M§	2.0m	§J	60	30	5.0	500m	20n#	10Ø	100nØ	50 †#				3.5p	ANΔ	X22	PB
103	MD2219AF*	350m	250M§	2.0m	§J	75	40	6.0	500m	15n#	10Ø	100nØ	45 †#				3.5p	ANΔ	X22	PB
104	MD2219F*	350m	250M§	2.0m	§J	60	30	5.0	500m	20n#	10Ø	100nØ	45 †#				3.5p	ANΔ	X22	PB
105▼	MMBT2222	350m	250M§Δ	2.8m	§S	60	30	5.0		50nØ	10Ø	100uØ	35 †Δ				8.0pØ☑		X156d	A
106	MPS6512	350m	250M§	2.8m	§J	40	30	4.0	100m	50nØ	10Ø	2.0mØ	50 Δ				3.5pØ☑	ANØ	TO92	A
107	MPS6513	350m	250M§	2.8m	§J	40	30	4.0	100m	50nØ	10Ø	2.0mØ	90 Δ				3.5pØ☑	ANØ	TO92	A
108	BC239	350m	280M§	2.8m	§J		45	5.0	100m	15n§	5.0Ø	2.0mØ	180 †Δ				4.5p$☑	ANØ	R210a	F
109	BC239-5	350m	280M§	2.8m	§J		45	5.0	100m	15n§	5.0Ø	2.0mØ	180 †Δ				4 5p$☑	ANØ	R210a	F
110	BC239-18	350m	280M§	2.8m	§J		45	5.0	100m	15n§	5.0Ø	2.0mØ	180 †Δ				4.5p$☑	ANØ	R210a	F

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L C E O A D E
1	2N5826	360m		3.6m	♦J	50	40	5.0	100m	50nØ	5.0Ø	2.0mØ	150 Δ				4.0p$☑		R203a	A
2	2N5827	360m		3.6m	♦J	50	40	5.0	100m	50nØ	5.0Ø	2.0mØ	250 Δ				4.0p$☑		R203a	A
3	2N5827A	360m		3.6m	♦J	50	40	5.0	100m	50nØ	5.0Ø	2.0mØ	250 Δ				4.0p$☑	Ø	R203a	A
4	2N5828	360m		3.6m	♦J	50	40	5.0	100m	50nØ	5.0Ø	2.0mØ	400 Δ				4.0p$☑		R203a	A
5	2N5828A	360m		3.6m	♦J	50	40	5.0	100m	50nØ	5.0Ø	2.0mØ	400 Δ				4.0p$☑	Ø	R203a	A
6	2N6222	360m		2.8m	§S	60	60	5.0	100m	50nØ	5.0Ø	2 0mØ	75 Δ				4.0p$☑		R207b	A
7	2N6224	360m		2.8m	§S	60	60	5.0	100m	50nØ	5.0Ø	2.0mØ	150 Δ				4.0p$☑		R207b	A
8	A5T3707	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	100uØ	100 Δ					PEØ	R203	A
9	A5T3708	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	45 Δ					PEØ	R203	A
10	A5T3709	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	45 Δ					PEØ	R203	A
11	A5T3710	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	90 Δ					PEØ	R203	A
12	A5T3711	360m		2.9m	§S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	180 Δ					PEØ	R203	A
13#	BC223A	360m		2.9m	§S	50	30	5.0	400m	100nØ	2.0Ø	50mØ	100 †Δ#					PE†	R203c	A
14#	BC223B	360m		2.9m	§S	50	30	5.0	400m	100nØ	2.0Ø	50mØ	200 †Δ#					PE†	R203c	A
15#	BF237	360m		2.9m	§S	45	30	4.0	30m	.10u	10Ø	1.0mØ	30 Δ					PL	R203	
16	BF238	360m		2.9m	§S	45	30	4.0	30m	.10uØ	10Ø	1.0mØ	70 Δ					PE	R203	
17	LDS207Ø	360m		2.9m	§J	20	10	5.0	30m	100n§	5.0Ø	1.0mØ	75 †Δ					PEΔ	TO122	P
18	TP3704	360m			§J	50	30	5.0		100n	2.0Ø	50mØ	100 †Δ				12p$☑	PE	TO98	B
19	TP3705	360m			§J	50	30	5.0		100n	2.0Ø	50mØ	50 †Δ				12p$☑	PE	TO98	B
20	TP3706	360m			§J	40	20	5.0		100n	2.0Ø	50mØ	30 †Δ				12p$☑	PE	TO98	B
21	TP3707	360m			§J	30	30	6.0		100n	5.0Ø	100uØ	100 †Δ					PEØ	TO98	B
22	TP3708	360m			§J	30	30	6.0		100n	5.0Ø	1.0mØ	45 †Δ					PE	TO98	B
23	TP3709	360m			§J	30	30	6.0		100n	5.0Ø	1.0mØ	45 †Δ					PE	TO98	B
24	TP3710	360m			§J	30	30	6.0		100n	5.0Ø	1.0mØ	90 †Δ					PE	TO98	B
25	TP3711	360m			§J	30	30	6.0		100n	5.0Ø	1.0mØ	180 †Δ					PE	TO98	B
26#	BF597	360m	550	2.4m	§	40	25	4.0	25m		10	70m	37					PE	R196	
27	2N2484A	360m	15M§Δ	2.0m	§J	60	60	6.0	50m	.01uØ	5.0Ø	1.0mØ	150 Δ	40u☑	24k☑	8.0 ☑	6pØ	Ø	TO18	AØ
28	PET8001	360m	40M§Δ	3.6m	♦J	50	35	8.0	100m	.01uØ	10Ø	1.0mØ	260	40u	900	10	2.5p☑	DPL	R110	A
29	PET8002	360m	40M§Δ	3.6m	♦J	50	35	8.0	100m	.01uØ	10Ø	1.0mØ	400	40u	900	10	2.5p☑	DPL	R110	A
30	PET8003	360m	40M§Δ	3.6m	♦J	50	35	8.0	100m	.01uØ	10Ø	1.0mØ	260	40u	900	10	2.5p☑	DPL*	R110	A
31	PET8004	360m	40M§Δ	3.6m	♦J	50	35	8.0	100m	.01uØ	10Ø	1.0mØ	400	40u	900	10	2.5p☑	DPL*	R110	A
32	2N2509	360m	45M§Δ		§C	125	80	7.0	200m	5.0nØ	5.0Ø	10uØ	25 †Δ				6.0p☑	Ø	TO18	AØ
33	2N2510	360m	45M§Δ		§C	100	65	7.0	200m	5.0nØ	5.0Ø	10uØ	75 †Δ				6.0p☑	Ø	TO18	AØ
34	2N2511	360m	45M§Δ		§C	80	50	7.0	200m	5.0nØ	5.0Ø	1.0uØ	80 †Δ				6.0p☑	Ø	TO18	AØ
35	2N3037†	360m	50M§Δ	2.4m	§S	120	70	7.0	500m	.01uØ	10Ø	10mØ	30 Δ	100u☑	700 ☑		15p☑		TO50	A
36	2N3038†	360m	50M§Δ	2.4m	§S	100	60	7.0	500m	.01uØ	10Ø	10mØ	60 Δ	200u☑	1.5k☑		15p☑		TO50	A
37#	BFT54†	360m	50M§Δ	2.0m	§J	60	30	6.0	1.0	50nØ	6.0Ø	1.0mØ	30 Δ				8.0p☑	PE	TO18	A
38#	BFT55†	360m	50M§Δ	2.0m	§J	40	20	6.0	1.0	50nØ	6.0Ø	1.0mØ	30 Δ				8.0p☑	PE	TO18	A
39#	BSX25	360m	50M§Δ	2.1m	§J	40	25 *	5.0	300m	100u	10Ø	5.0mØ	30 †Δ				25pØ	PL	TO18	AØ
40#	BSY93	360m	50M§Δ	2.1m	§J	60	40 *	5.0		100u	2.0Ø	10mØ	60 †Δ				25pØ	PLΔ	TO18	AØ
41	TZ81	360m	50M§	2.8m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	350	90nb	26		5.0p	PLØ	TO98	B
42	TZ82	360m	50M§	2.8m	§J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	250	90nb	26		5.0p	PLØ	TO98	B
43#	BFY76	360m	55M§	2.0m	§J	45	45	6.0	50m	20nØ	5.0Ø	1.0mØ	300	11u	8.0k	3.0	3.5p	DPLØ	TO18	AØ
44	2N2483	360m	60M§Δ	2.0m	§J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	80 Δ	30u☑	13u☑	8.0 ☑	6.0p☑	Ø	TO18	AØ
45	2N2484	360m	60M§Δ	2.0m	§J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	150 Δ	40u☑	24u☑	8.0 ☑	6.0p☑	Ø	TO18	AØ
46	JAN2N2484	360m	60M§Δ	2.0m	§J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	250 Δ	40u☑	24k☑	8.0 ☑	5.0p☑	Ø	TO18	A
47	2N3077	360m	60M§Δ	2.0m	§J	80	60	7.0	50m	.01uØ	5.0Ø	.01mØ	80 †Δ				6pØ	PLØ	TO18	AØ
48	2N3078	360m	60M§Δ	2.0m	§J	80	60	7.0	50m	.01uØ	5.0Ø	.01mØ	25 †Δ				6pØ	PL	TO18	AØ
49	2N3117	360m	60M§Δ	2.0m	§	60	60	6.0	50m	.01uØ	5.0Ø	1.0mØ	400 Δ	40u☑	24k☑	8 ☑	4.5pØ	Ø	TO18	AØ
50#	BFT53†	360m	60M§Δ	2.0m	§J	80	35	6.0	1.0	50nØ	6.0Ø	1.0mØ	10 Δ				8.0p☑	PE	TO18	A
51#	BFY77	360m	60.M§	2.1m	§J	45	45	6.0	50m	.02uØ	5.0Ø	1.0mØ	450	15u	15k	4.3	3.5p	DPLØ	TO18	AØ
52	PET4001	360m	60M§Δ	3.6m	♦J	30	25	8.0	100m	.01uØ	10Ø	1.0mØ	160	40u	900	10	3pØ	PL†	R110	A
53	PET4002	360m	60M§Δ	3.6m	♦J	30	25	8.0	100m	.01uØ	10Ø	1 0mØ	260	40u	900	10	3pØ	PL†	R110	A
54	PET4003	360m	60M§Δ	3.6m	♦J	30	25	8.0	100m	.01uØ	10Ø	1.0mØ	400	40u	900	10	3pØ	PL†	R110	A
55#	BFX92A	360m	69.M§	2.0m	§J	60	60	6.0	50m	.01uØ	5.0Ø	1.0mØ	280	11u	7.5k	3.0	3.5p	DPLØ	TO18	AØ
56#	BFX93A	360m	78M§	2.0m	§J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	400	15u	15k	4.2	3.5p	DPLØ	TO18	AØ
57#	BC285	360m	80M§	2.0m	§J	120	120	5.0	100m	100n	30Ø	5.0mØ	30 †Δ	5.0m	420	750m	4.0p	DPL	TO18	
58	HEPS0002-RT	360m♦	80M§		†J	25	25 $	5.0	500m$	100n$			160 †						TO92	A
59	HEPS0003-RT	360m♦	80M§		†J	25	25 $	5.0	500m$	100n$			380 †						TO92	A
60	GET929	360m	90M§Δ	3.6m	♦J	70	50	5.0	100m	10n	5.0Ø	10uØ	60 †Δ				1.0p$☑	PE†	TO18	A
61	GET930	360m	90M§Δ	3.6m	♦J	70	50	5.0	100m	10n			100 †Δ				1.0p$☑	PE†	TO18	A
62	2N3704	360m	100M§	2.9m	§S	50	30	5.0	800m	.10uØ	2.0Ø	50mØ	300 †#☑				12pØ		TO92	B
63	2N3705	360m	100M§	2.9m	§S	50	30	5.0	800m	.10uØ	2.0Ø	50mØ	150 †#☑				12pØ		TO92	B
64	2N3706	360m	100M§	2.9m	§S	40	20	5.0	800m	.10uØ	2.0Ø	50mØ	600 †#☑				12pØ		TO92	B
65	2N5449	360m	100M§Δ	2.9m	§S	50	30	5.0	800m	.10uØ	2.0Ø	50mØ	100 †#Δ				12p$		R203	A
66	2N5450	360m	100M§Δ	2.9m	§S	50	30	5.0	800m	.10uØ	2.0Ø	50mØ	50 †#Δ				12p$		R203	A
67	2N5451	360m	100M§Δ	2.9m	§S	40	20	5.0	800m	.10uØ	2.0Ø	50mØ	30 †#Δ				12p$		R203	A
68#	BFR16	360m	100M§	6.9m	§	60	60	8.0	50m	10n	5.0Ø	1.0mØ	150 †Δ	17u	10k	4.3	3.5p	PL	TO18	A
69#	BFR17	360m	100M§	6.9m	§	60	60	8.0	50m	20n	5.0Ø	1.0mØ	450 †Δ	20u	10k	4.5	3.5p	PL	TO18	A
70#	BFT29	360m	100M§Δ	2.0m	§A	90	80	5.0	1.0	100nØ	10Ø	100mØ	50 †Δ				10pØ	PE	TO18	A
71#	BFT30	360m	100M§Δ	2.0m	§A	70	60	5.0	1.0	100nØ	10Ø	100mØ	75 †Δ				10pØ	PE	TO18	A
72#	BFT31	360m	100M§Δ	2.0m	§A	60	50	5.0	1.0	100nØ	10Ø	100mØ	100 †Δ				10pØ	PE	TO18	A
73	PET3704	360m	100M§Δ	3.6m	♦J	50	30	5.0	800m	.10uØ	2.0Ø	50mØ	5.0 Δ				12pØ	PE†	R110	A
74	PET3705	360m	100M§Δ	3.6m	♦J	50	30	5.0	800m	.10uØ	2.0Ø	50mØ	5 0 Δ				12pØ	PE†	R110	A
75	PET3706	360m	100M§Δ	3.6m	♦J	40	20	5.0	800m	.10uØ	2.0Ø	50mØ	5.0 Δ				12pØ	PE†	R110	A
76#	BFT57	360m	110M§	2.1m	§J	160	160	5.0	200m	50nØ	10Ø	30mØ	25 †Δ				5.5p	PE	TO18	A
77#	BFT58	360m	110M§	2.1m	§J	250	250	5.0	200m	50nØ	10Ø	30mØ	25 †Δ				5.5p	PE	TO18	A
78#	BFT59	360m	110M§	2.1m	§J	300	300	5.0	200m	50nØ	10Ø	30mØ	25 †Δ				5.5p	PE	TO18	A
79#	BCW34	360m	150M	2.7m	§	60	45	5.0	600m	10n	5.0Ø	100mØ	100 Δ	5.0u	40k	10	6.0p	PE	TO18	
80#	ME6003	360m	150M§Δ	2.8m	§J	25	25 *	4.0		100nØ	5.0Ø	50mØ	30 †Δ				12pØ	PE	R110c	A
81	2N6112	360m	160M§Δ	2.8m	§S	50	30	5.0		10n	5.0Ø	2.0mØ	185 Δ		8.0uØ		10pØ		X149	B
82	2N706C†	360m	200M§Δ	2.0m	§J	40	15	5.0	50m	1.0uØ	1.0Ø	10mØ	20 †Δ				5.0pØ		TO18	AØ
83	2N919†	360m	200M§Δ	2.1m	§J	25	15	5.0	220m	10u	1.0Ø	10mØ	20 †Δ				7.0pØ		TO18	AØ
84	2N920†	360m	200M§Δ	2.1m	§J	25	15	5.0	220m	10u	1.0Ø	10mØ	40 †Δ				7.0pØ		TO18	AØ
85	2N947	360m	200M§Δ	2.9m	§J	20	15 §	3.0	100m	1.0uØ	1.0Ø	10mØ	30 †#Δ				8pØ	Δ	TO18	AØ
86	2N3826	360m	200M§Δ	2.9m	§S	60	45	4.0	30m	.10uØ	10Ø	10mØ	40 †#Δ				4pØ	†	TO92	B
87	2N3827	360m	200M§Δ	2.9m	§S	60	45	4.0	30m	.10uØ	10Ø	10mØ	100 †#Δ				4pØ	†	TO92	B
88	2N3973†	360m	200M§Δ	2.6m	§S	60	30	5.0	400m	10u	1.0Ø	10mØ	35 †Δ				7.0pØ		R67b	B
89	2N3974†	360m	200M§Δ	2.6m	§S	60	30	5.0	400m	10u	1.0Ø	10mØ	55 †Δ				7.0pØ		R67b	B
90	2N3975†	360m	200M§Δ	2.6m	§S	60	30	5.0	400m	10u	1.0Ø	10mØ	35 †Δ				7.0pØ		R67b	B
91	2N3976†	360m	200M§Δ	2.6m	§S	60	30	5.0	400m	10u	1.0Ø	10mØ	55 †Δ				7.0pØ		R67b	B
92	2N4994	360m	200M§Δ	2.9m	§S	60	45	4.0	30m	.10uØ	10Ø	10mØ	40 †#Δ				4pØ	†	R203	A
93	2N4995	360m	200M§Δ	2.9m	§S	60	45	4.0	30m	.10uØ	10Ø	10mØ	100 †#Δ				4pØ	†	R203	A
94	2N5525	360m	200M§Δ	2.8m	§S	40	30	9.0	200m	100nØ	10Ø	10m	5.0kΔ				10pØ		R196d	B
95	2N5526	360m	200M§Δ	2.8m	§S	40	30	9.0	200m	100nØ	10Ø	10m	1.0kΔ				10pØ		R196d	B
96#	BFV88†	360m	200M§Δ	500u	§J	60	40	5.0	800m		10Ø	10mØ	75 †#				11pØ	PE	W5a	B
97	BFY26	360m	200M§Δ	2.1m	§J	60	40	6.0	200m	.01u	9.0Ø	10mØ	60 †				5.5pØ	PLØ	TO18	
98#	BSS40†	360m	200M§Δ	2.0m	§J	60	40	5.0	1.0 #	1.0u*	1.0Ø	150mØ	30 †Δ#				10p$☑	PE	TO18	AØ
99#	BSS41†	360m	200M§Δ	2.0m	§J	60	30	5.0	1.0 #	1.0u*	1.0Ø	150mØ	30 †Δ#				10p$☑	PE	TO18	AØ
100#	BSX79†	360m	200M§Δ	1.3m	§A						1.0Ø	50mØ	50 Δ				5.0p	NPE	TO18	
101	LDA404†	360m	200M§Δ	2.9m	§J	60	30	5.0	300m	10nØ	10Ø	150mØ	40 †#Δ				8.0pØ	PE	S5	P
102	LDA405†	360m	200M§Δ	2.9m	§J	60	30	5.0	300m	10nØ	10Ø	150mØ	100 †#Δ				8.0pØ	PE	S5	P
103#	ME6001	360m	200M§Δ	2.8m	§J	40	30 *	5.0		50n§	1.0Ø	1.0mØ	20 †Δ				10pØ	PE	R110c	A
104#	ME6002	360m	200M§Δ	2.8m	§J	40	30 *	5.0		50n§	1.0Ø	1.0mØ	40 †Δ				10pØ	PE	R110c	A
105	TIS97	360m	200M§Δ	2.8m	§S	60	40	6.0	200m	10uØ	5.0Ø	100uØ	440	11u	115k	30	4.0p$☑	PE†Ø	R203	A
106	TIS98	360m	200M§Δ	2.8m	§S	80	60	6.0	200m	10uØ	5.0Ø	1.0mØ	240	6.0u	6.4k	1.5	4.0p$☑	PE†Ø	R203	A
107	TIS99	360m	200M§Δ	2.8m	§S	80	65	6 0	200m	10uØ	5.0Ø	10mØ	130	50u	500	900m	4.0p$☑	PE†Ø	R203	A
108	TIS110†	360m	200M§Δ	2.8m	§S	60	40	6.0	800m	100n#	1.0Ø	1.0mØ	20 Δ	30uØ	7.5k☑	8.0 ☑	6.5p$☑	PE†	R203	A
109	2N915	360m	250M§Δ	2.0m	§J	70	50	5.0		.01uØ	5.0Ø	5.0mØ	50 Δ	125uØ	2kØ		3.5pØ		TO18	AØ
110	2N2845†	360m	250M§Δ	2.0m	§J	60	30 *	5.0		.20u§	10Ø	150mØ	30 †Δ#				8pØ		TO18	AØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T A M X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #L Y200 s/a TO200 Ser.	C E O A D D E
1#	BFW68†	360m	400M§	2.0m	§J		50	40	5.0		.01uØ	5.0Ø	5.0mØ	50 Δ	125uⓏ	2kⓏ	5 Ⓩ	3.0p	DPE	TO18	AØ
2#	BSS26†	360m	400M§	2.0m	§J							1.0Ø	100mØ	40 †				4.8p		TO18	
3#	BSV89†	360m	400M		§							1.0Ø	10mØ	40				4.0p		TO18	A
4#	BSV90†	360m	400M		§							1.0Ø	10mØ	40				4.0p		TO18	A
5#	BSV91†	360m	400M		§							1.0Ø	10mØ	40				4.0p		TO18	A
6#	BSX88†	360m	400M§	2.0m	§J		40	15	5.0		25nØ	1.0Ø	10mØ	45 †#				4.0p	DPE	TO18	AØ
7#	ZT2368†	360m	400M§Δ		§		40		4.5			10Ø	10mØ	20 †Δ					PL	TO18	
8#	ZT2369†	360m	400M§Δ		§		40		4.5			10Ø	10mØ	40 †Δ					PL	TO18	
9#	ZT2369A†	360m	400M§Δ		§		40		4.5			10Ø	10mØ	40 †Δ					PL	TO18	
10	2N3511†	360m	450M§Δ	2.0m	§S		40	15	6.0	500m	25n#Ø	1.0Ø	150mØ	30 †Δ	100uⓏ	4.5kⓏ	25 Ⓩ	4pⓏ		TO52	AØ
11	2N708/46†	360m	480MΔ	2.0m	§J		40	15	5.0		25nØ	1.0Ø	10mØ	30 Δ				6.0pⓏ	PL	TO46	
12	2N743A†	360m	500M§Δ	2.0m	§J		40	15	5.0		1.0u	.35Ø	10mØ	20 †Δ				3pⓏ	PE	TO18	A
13	2N744A†	360m	500M§Δ	2.0m	§J		40	15	5.0		1.0u	.35Ø	10mØ	40 †Δ				3pⓏ	PE	TO18	A
14	2N834A	360m	500M§Δ	2.0m	§J		40	30 Ø	5.0	200m	.50uØ	1.0Ø	10mØ	25 †Δ				4pⓏ		TO18	AØ
15	2N915A	360m	500M§Δ	2.1m	§J		70	50	5.0		2nØ	5.0Ø	5.0mØ	50 Δ	125uⓏ	2kⓏ		3pⓏ	Ø	TO18	AØ
16	2N916B	360m	500M§Δ	2.1m	§J		60	30	5.0		2nØ	5.0Ø	5.0mØ	50 Δ	125uⓏ	2kⓏ		3pⓏ	Ø	TO18	AØ
17	2N2369†	360m	500M§Δ	2.0m	§J		40	15	4.5	500m	400nØ	1.0Ø	10mØ	40 †#Δ				4.0pⓏ		TO18	AØ
18	2N2369A†	360m	500M§Δ	2.0m	§J		40	15	4.5	200m	.40u§Ø	.35Ø	10mØ	40 †#Δ				4pⓏ		TO18	AØ
19	JAN2N2369A†	360m	500M§Δ	2.0m	§J		40	15	4.5		30uØ†	1.0Ø	10mØ	40 †Δ				4.0p		TO18	AØ
20	2N2710†	360m	500M§Δ	2.0m	§J		40	20	5.0	500m	.03uØ	1.0Ø	10mØ	40 †Δ				4pⓏ	PE	TO18	AØ
21	2N3227†	360m	500M§Δ	2.0m	§J		40	20	6.0	200m	.20uØ	1.0Ø	10mØ	100 †Δ#				4pⓏ		TO18	AØ
22	2N4137†	360m	500M§Δ	2.0m	§J		40	40 Ø	4.5	200m	30u†Ø	.35Ø	10mØ	40 †#				4p$Ⓩ	DPE	TO18	AØ
23	2N4418†	360m	500M§Δ	2.9m	§S		40	15	4.5	200m	.40uØ	1.0Ø	10mØ	40 †#Δ				4p$Ⓩ	†	R203	A
24	2N5272†	360m	500M§Δ	2.1m	§S		40	20	5.0	200m	.20uØ	1.0Ø	10mØ	100 †Δ#				4p$Ⓩ		TO18	AØ
25#	2SC764†	360m	500M§Δ		§J							1.0Ø	10mØ	40 †Δ				4.0pⓏ	PE	TO18	AØ
26#	BFX43	360m	500M§	2.0m	§J		30	15	4.0	125m	100nØ	1.0Ø	10mØ	20 †Δ					PE	TO18	Ø
27#	BFX44	360m	500M§	2.0m	§J		40	15	4.0	125m	100nØ	1.0Ø	10mØ	40 †Δ					PE	TO18	Ø
28#	BSV92†	360m	500M		§							1.0Ø	10mØ	70				4.0p		TO18	A
29#	BSX19	360m	500M§Δ	2.0m	§J		40	15	4.5	500n#	400nØ	1.0Ø	100mØ	10 Δ				4.0p$Ⓩ	PE	TO18	A
30#	BSX20†	360m	500M§Δ	2.0m	§J		40	15	4.5	500m	400nØ	2.0Ø	100mØ	20 †Δ				4.0p$Ⓩ	PE	TO18	A
31	LDS200†	360m	500M§Δ	2.9m	§J		30	15	4.5		500nØ	1.0Ø	10mØ	20 †Δ				4.0pⓏ	PE	TO122	P
32	LDS201†	360m	500M§Δ	2.9m	§J		30	15	4.5		500nØ	1.0Ø	10mØ	40 †Δ				4.0pⓏ	PE	TO122	P
33#	BSX26†	360m	550M§	2.0m	§J		40	15	4.0		500nØ	.40Ø	30mØ	60 †#				3.3p	DPE		
34#	BSX92†	360m	550M§	2.0m	§J							1.0Ø	10mØ	20 Δ#				4pⓏ	PE	TO18	
35	2N3862†	360m	600M§Δ	2.0m	§A		50	20	4.5	200m	.05uØ	1.0Ø	10mØ	50 †#Δ				4pⓏ		TO72	G
36	2N5082	360m	600M§Δ	2.1m	§S		60	30	5.0		.01uØ	5.0Ø	1.0mØ	100 Δ				3p$Ⓩ	Ø	TO18	AØ
37	2N5399§	360m	600M§Δ	2.4m	§S		25	15	2.0	100m	.01uØ	1.0Ø	1.0mØ	30 Δ				3p$	Δ	TO46	AØ
38#	BSX39†	360m	600M§	2.0m	§J		45	20	5.0		100n§	.40Ø	30mØ	60 †#				4.0p	DPE	TO18	Ø
39#	BSX87A†	360m	600M§	2.0m	§J		40	15	5.0		.30uØ	1.0Ø	10mØ	55 †#				2.5p	DPE	TO18	AØ
40	LDS205†	360m	600M§Δ	2.9m	§J		15	6.0	4.0	100m	500nØ	1.0Ø	10mØ	20 †Δ				3.0pⓏ	PE	TO122	P
41#	BSX28†	360m	650M§	2.0m	§J		30	12	4.5		.40u§	1.0Ø	100mØ	50 †#				2.3p	DPE	TO18	AØ
42#	BSX93†	360m	650M§	2.0m	§J							1.0Ø	10mØ	40 Δ#				4pⓏ	PE	TO18	
43	2N4873†	360m	700M§Δ	2.0m	§J		40	15	4.5	200m	.40u§	1.0Ø	10mØ	150 †#				4pⓏ		TO18	AØ
44#	2SC639†	360m	750M§	2.0m	§J		40	40 Ø	5.0	200m	400nØ	1.0Ø	10mØ	80				1.5p	PE	TO18	
45#	MA9001†	360m	750M§	2.9m	§J		40	40 Ø	4.5		300nØ	1.0Ø	10mØ	40 †Δ				4.0pⓏ	PEΔ	TO18	
46#	MA9002†	360m	750M§	2.9m	§J		30	30 Ø	4.5		300nØ	1.0Ø	10mØ	30 †Δ				4.0pⓏ	PEΔ	TO18	
47#	MA9003†	360m	750M§	2.9m	§J		18	18 Ø	4.0		1.0uØ	5.0Ø	10mØ	25 †Δ				4.0pⓏ	PEΔ	TO18	
48	2N5292§	360m	800M§Δ	2.1m	§J		12	12	4.5	100m	1n§	1.0Ø	100m	30 †Δ#				4.5p$Ⓩ	Δ	TO18	AØ
49	LDA406	360m	900M§	2.9m	§J		30	15	3.0	25m	10nØ	10Ø	3.0mØ	20 Δ†				3.0pⓏ	PEØ	TO122	P
50	LDA412	360mØ	1.0GΔ§	2.9m	§J		20	10	2.5	50m	50nØ	5.0Ø	25mØ	25 †Δ				1.5pⓏ	PE	TO122	P
51	LDA420	360m	1.0G§Δ	2.9m	§J		40	25	2.0	150m		5.0Ø	50mØ	25 †Δ				4.0p$Ⓩ	PE	TO122	P
52	LDA407	360m	1.5G§	2.9m	§J		30	15	2.5	25m	10nØ	5.0Ø	15mØ	25 Δ†				1.0p$Ⓩ	PEØ	TO122	P
53	MS12H	360m	2.0G§	2.0mØ	§S		30	20	1.0	200m	100nØ	9.0Ø	10mØ	30 †Δ					Ø	TO72	G
54	MS175H	360m	2.5G§	2.0mØ	§S		30	20	1.0	100m	100nØ	9.0Ø	5.0mØ	50 †Δ				1.2p$Ⓩ	Ø	TO72	G
55	LDA496	360m	5.0G§	2.9m	§J		20	15	2.0	75m	100nØ	10Ø	50mØ	25 †Δ#				800f$	E	TO122	E
56#	BC377	375m	200M§	2.5m	§J		50	45	6.0	1.0	15n	1.0Ø	100mØ	75 †Δ					PE	TO18	A
57#	BC378	375m	200M§	2.5m	§J		30	25	6.0	1.0	15n	1.0Ø	100mØ	75 †Δ					PE	TO18	A
58#	2SC918	375m	400M§		§J		20	20	3.0	30m	200nØ	10Ø	4.0mØ	20 †Δ				450f†Ⓩ	DM	TO104	
59	2N6602*	375mØ$	3.5G§Δ	3.7mØ	§S		20	15	2.0	25m	100u	10Ø	14mØ	25 Δ				600f$Ⓩ	Ø	W29	RⓏ
60	HP35822E*	375mØ	4.0G#	2.5mØ	§J		27	20	1.5	35m	10uØ	15Ø	15mØ	40 †					Ø	W8a	V
61	MRF901	375mØ	4.5G§	3.3m	§S		25	15	3.0	30m	50nØ♦	5.0Ø	5.0mØ	80 †				400f$		W33	V
62♦	2N622	386m	300kΔ	2.8m	§J		50	30	20	50m	100n	1.5Ø	500uΔ	25 †				70pⓏ	FAØ	TO5	A
63#	BCY59A	390m	150M§Δ	2.2m	§J		45	45	7.0	200m	.01u	5.0Ø	2.0mØ	200					PE	TO18	AØ
64#	BCY59B	390m	150M§Δ	2.2m	§J		45	45	7.0	200m	.01u	5.0Ø	2.0mØ	260					PE	TO18	AØ
65#	BCY59C	390m	150M§Δ	2.2m	§J		45	45	7.0	200m	.01u	5.0Ø	2.0mØ	330					PE	TO18	AØ
66#	BCY59D	390m	150M§Δ	2.2m	§J		45	45	7.0	200m	.01u	5.0Ø	2.0mØ	520					PE	TO18	AØ
67	2N4074	400m#		3.3m	§S		40	40	8.0	300m	10nØ	12Ø	10mØ	400 Ⓩ						R179d	AØ
68	2N5418	400m		4.0m	§S		25	25	5.0	500m	100n	10Ø	2.0mØ	25 Δ				6.0p$Ⓩ		TO98	B
69	2N5419	400m		4.0m	§S		25	25	5.0	500m	100n	10Ø	2.0mØ	70 Δ				6.0p$Ⓩ		TO98	B
70	2N5420	400m		4.0m	§S		25	25	5.0	500m	100n	10Ø	2.0mØ	150 Δ				6.0p$Ⓩ		TO98	B
71	2N5998	400m		4.0m	§S		35	25	5.0	500m	30nØ	2.0Ø	10mØ	150 Δ				6.0p$Ⓩ	Ø	TO98	B
72	2N6008	400m		4.0m	§S		35	25	5.0	500m	30nØ	2.0Ø	10mØ	250 Δ				6.0p$Ⓩ	Ø	TO98	B
73#	2SC853	400m		4.0m	♦J		70	60	5.0	200m	100nØ	1.0Ø	50mØ	80 †#*					E	R198a	B
74#	2SC881	400m			§J		60	45	5.0	200m	100n	1.0Ø	50mØ	80 †					PE	R198a	B
75#	2SC1213	400mØ		4.0m	♦J		35	35	4.0	500m	500n	3.0Ø	10mØ	40 †Δ					PE	S8	B
76#	2SC1213A	400mØ		4.0m	♦J		50	50	4.0	500m	500n	3.0Ø	10mØ	40 †Δ					PE	S8	B
77#	2SC1264	400m		3.2m	§J		30	20	3.0	100m	500nØ	10Ø	40mØ	100 †					PE	W5c	C
78▼#	2SD636	400m		3.6m	†J		30	25	7.0	200m	1.0uØ	10Ø	2.0mØ	90 †Δ				3.5p		B37	D
79▼#	2SD637	400m		3.6m	†J		60	50	7.0	200m	1.0uØ	10Ø	2.0mØ	90 †Δ				3.5p		B37	D
80#	BC282	400m		2.2m	§J		60	30	5.0	600m	50n	5.0Ø	50mØ	50 †Δ	660m	240	3.6	5.5p	DPE	TO18	
81	D32S1	400m		4.0m	♦J		30	30	7.0	100m	25n§	5.0Ø	100uØ	400 †Δ				4.0p$Ⓩ	PE	R203a	A
82	D32S2	400m		4.0m	♦J		30	30	7.0	100m	25n§	5.0Ø	100uØ	600 †Δ				4.0p$Ⓩ	PE	R203a	A
83	D32S3	400m		4.0m	♦J		30	30	7.0	100m	25n§	5.0Ø	100uØ	1.0kΔ				4.0p$Ⓩ	PE	R203a	A
84	D32S4	400m		4.0m	♦J		30	30	7.0	100m	25n§	5.0Ø	100uØ	1.5kΔ				4.0p$Ⓩ	PE	R203a	A
85	D32S5	400m		4.0m	♦J		45	45	7.0	100m	25n§	5.0Ø	100uØ	400 †Δ				4.0p$Ⓩ	PE	R203a	A
86	D32S6	400m		4.0m	♦J		45	45	7.0	100m	25n§	5.0Ø	100uØ	600 †Δ				4.0p$Ⓩ	PE	R203a	A
87	D32S7	400m		4.0m	♦J		45	45	7.0	100m	25n§	5.0Ø	100uØ	1.0kΔ				4.0p$Ⓩ	PE	R203a	A
88	D32S8	400m		4.0m	♦J		60	60	7.0	100m	25n§	5.0Ø	100uØ	250 †Δ				4.0p$Ⓩ	PE	R203a	A
89	D32S9	400m		4.0m	♦J		60	60	7.0	100m	25n§	5.0Ø	100uØ	400 †Δ				4.0p$Ⓩ	PE	R203a	A
90	D32S10	400m		4.0m	♦J		60	60	7.0	100m	25n§	5.0Ø	100uØ	600 †Δ				4.0p$Ⓩ	PE	R203a	A
91	IT126*	400mØ		2.3mØ	§J		60	60 §	7.0	100m	100pØ	5.0Ø	1.0mØ	200 Δ†				3.0pⓏ	PL*	TO78	PA
92	IT127*	400mØ		2.3mØ	§J		60	60 §	7.0	100m	100pØ	5.0Ø	1.0mØ	200 Δ†				3.0pⓏ	PL*	TO78	PA
93	IT128*	400mØ		2.3mØ	§J		55	55 §	7.0	100m	100pØ	5.0Ø	1.0mØ	150 Δ†				3.0pⓏ	PL*	TO78	PA
94	IT129*	400mØ		2.3mØ	§J		45	45 §	7.0	100m	100pØ	5.0Ø	1.0mØ	100 Δ†				3.0pⓏ	PL*	TO78	PA
95	2N6566†	400m	3.0M§Δ	2.3m	§S		30	30 Ø	30	100m	500p	1.0	1.0mØ	100 †Δ				10pⓏ		TO46	AØ
96	2N5066Ø	400m	5.0M§Δ	2.3m	§S		30	20	30	100m	1.0n							10pⓏ	Δ	TO46	AØ
97#	BF250	400m	20.M§	2.7m	§A		15	15	3.0	600m		5.0Ø	.01m	30 †Δ				8.0p	PEØ	TO18	AØ
98	2N929/46	400m	30M§Δ	3.0m	§J		45	45	5.0	30m	10n	5.0Ø	1.0 Ø	60 Δ	1.0 Ⓩⓑ	32 Ⓩ	6.0 Ⓩ	8.0p	PLØ	TO46	
99	2N930/46	400m	30M§Δ	3.0m	§J		45	45	5.0	30m	10n	5.0Ø	1.0mØ	150 Δ				8.0p	PLØ	TO46	
100	2N930A/46	400m	30M§Δ	3.0m	§J		60	45	6.0	30m	2.0nØ	5.0Ø	1.0mØ	150	1.0ub	28	6.0	4.0p	PLØ	TO46	
101	2N2514	400m	30M	2.3m	§S		80	60	6.0	100m	5.0nØ	5.0Ø	1.0m	15 Δ		1.2k		6.0pⓏ		TO46	Ø
102	2N2517	400m	30M§Δ	2.2m	§S		125	80	8.0	50m	5.0nØ	5.0Ø	5.0m	20 Δ		1.2k		6.0pⓏ		TO46	AØ
103	2N717	400m	40M§Δ	10mØ	§J		60	40 §	5.0		1.0uØ	10Ø	150mØ	20 †#Δ				35pⓏ	DΔ	TO18	AØ
104	2N719	400m	40M§Δ	10mØ	§J		120	80 §	5.0		2.0uØ	10Ø	5.0mØ	25 Δ	500nⓏb	35 Ⓩ	2.5 Ⓩ	20pⓏ		TO18	AØ
105#	C400	400m	40M§Δ	2.7m	§J		60	30	4.0		100nØ	10Ø	100mØ	40 †Δ	14u	600	1.1	25pⓏ	PE	TO18	Ø
106	2N718	400m	50M§Δ	10mØ	§J		60	40 §	5.0		1.0uØ	10Ø	150mØ	40 †#Δ				35pⓏ	DΔ	TO18	AØ
107	2N720	400m	50M§Δ	10mØ	§J		120	80 §	5.0		2.0uØ	10Ø	5.0mØ	45 Δ	500nⓏb	30 Ⓩ	2.5 Ⓩ	20pⓏ		TO18	AØ
108	2N909	400m	50M§Δ	2.6m	§J		60	30 §	5.0		1.0uØ	5.0Ø	1.0mØ	40 Δ	500nⓏb	35 Ⓩ	8.0 Ⓩ	35pⓏ		TO18	AØ
109	2N2350†	400m	50M§Δ	2.3m	§J		60	40	5.0	1	.01uØ	10Ø	150mØ	100 †#Δ				20pⓏ	PE	TO46	AØ
110	2N2350A†	400m	50M§Δ	2.3m	§J		60	40	5.0	1	.01uØ	10Ø	150mØ	100 †#Δ				20pⓏ	PE	TO46	AØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	TIS87	400m	500M§△	3.2m	§J	45	45	4.0	50m	.10uØ	12Ø	12mØ	30 †△					PE†	R203 C
2	2N2369/46	400m	600M△	2.3m	§J	40	15	4.5	500m	400nØ	1.0Ø	10m	40 †				4.0p	PE	TO46
3	TIS105	400m	600M§	3.2m	§S	45	45	4.0	50m	50nØ	15Ø	10mØ	30 †△#				700f§	PE†Ø	R203 C
4	TIS126	400m	600M§△	3.2m	§	45	40	4.0	50m	50nØ	15Ø	10mØ	25 †△				360f§☑	Ø†	R203 C
5	UCX2910*	400m	600M§△		§S	30	15	4.0		.1pØ	1.0Ø	3.0mØ	40 †△				pØ	PL△Ø	TO78 PA
6#	JE9016D	400m	620M§	3.2m	§J	30	20	4 0	25m	100n	5 0Ø	1.0mØ	25 †△*				1.2p		TO92 A
7#	JE9016E	400m	620M§	3.2m	§J	30	20	4.0	25m	100n	5.0Ø	1.0mØ	39 †△*				1.2p		TO92 A
8#	JE9016F	400m	620M§	3.2m	§J	30	20	4.0	25m	100n	5.0Ø	1.0mØ	54 †△*				1.2p		TO92 A
9#	JE9016G	400m	620M§	3.2m	§J	30	20	4.0	25m	100n	5.0Ø	1 0mØ	72 †△*				1.2p		TO92 A
10#	JE9016H	400m	620M§	3.2m	§J	30	20	4.0	25m	100n	5.0Ø	1.0mØ	97 †△*				1.2p		TO92 A
11#	JE9016I	400m	620M§	3.2m	§J	30	20	4.0	25m	100n	5.0Ø	1.0mØ	132 †△*				1.2p		TO92 A
12♦#	2SC1687	400m	820M§☑	3.6m	†J	40	25	4.0	30m	10u	10Ø	7.0mØ	38 †△				500ft☑	PE	TO92 E
13♦#	2SC1688	400m	820M§☑	3.6m	†J	50	40	4.0	30m	10u	10Ø	7.0mØ	38 †△				500ft☑	PE	TO92 E
14	2N709A46†	400m	1.0G§	2.3m	§J	15	6.0	4 0		5.0nØ	.50Ø	10mØ	60 †				3.0p☑	PE	TO46
15	2N2784/46†	400m	1.0G§	2.3m	§J	15	6.0	4.0		5nØ	.50Ø	10mØ	120 †☑				3p☑	PE	TO46
16	JAN2N3959	400m	1.0G§△	2.2m	§J	20	12	4.5		1.0u#	1.0Ø	10mØ	60 †△				2.5p☑		TO18 AØ
17♦	JAN2N6603*	400m	1.0G#	2.3m	§J	25	15	2.0	30m	50nØ	10Ø	15mØ	30 †△#				750f§☑	Ø	W29a R☑
18#	JE9018D	400m	1.1G§	3.2m	§J	30	15	5.0	50m	50n	5.0Ø	1.0mØ	28 †△*				1.3p		TO92 A
19#	JE9018E	400m	1.1G§	3.2m	§J	30	15	5.0	50m	50n	5.0Ø	1.0mØ	39 †△*				1.3p		TO92 A
20#	JE9018F	400m	1.1G§	3.2m	§J	30	15	5.0	50m	50n	5.0Ø	1.0mØ	54 †△*				1.3p		TO92 A
21#	JE9018G	400m	1.1G§	3.2m	§J	30	15	5.0	50m	50n	5.0Ø	1.0mØ	72 †△*				1.3p		TO92 A
22#	JE9018H	400m	1.1G§	3.2m	§J	30	15	5 0	50m	50n	5.0Ø	1.0mØ	97 †△*				1.3p		TO92 A
23#	JE9018I	400m	1.1G§	3.2m	§J	30	15	5.0	50m	50n	5.0Ø	1.0mØ	132 †△*				1.3p		TO92 A
24	2N709/46†	400m	1.2G	2.2m	§J	15	6.0	4.0		50nØ	.50Ø	10mØ	55 †				3.0p☑		TO46
25	2N3959†	400m	1.3G§△	2.3m	§S	20	12	4.5	30m	5n#Ø	1.0Ø	10mØ	400 †☑				2.5p☑	△	TO18 AØ
26	JAN2N3960	400m	1.3G§△	2.2m	§J	20	12	4.5		1.0u#	1.0Ø	10mØ	60 †△				2.5p☑		TO18 AØ
27	2N6603*	400mØ§	1.5G#☑	4.0mØ	§S	25	15	3.0	30m	50nØ	10Ø	15mØ	30 †△				750f§☑	Ø	W29a R☑
28	2N3960†	400m	1.6G§△	2.3m	§S	20	12	4.5	30m	5n#	1.0Ø	10mØ	400 †☑				2.5p☑	△	TO18 AØ
29	MT6001	400mØ	3.5G§	3.0m	§J	20		3.0	100m	10nØ	10Ø	5.0mØ	20 △				1.7p§☑	†Ø	X173 C
30	HP35824A	400m	4.0GØ	2.7mØ	§J	25	20	3.0	35m	20uØ	15Ø	150u△	25				400f§		TO72 G
31#	2SC1574	400m	4.5G§		§J	20	20	2.0	30m	100nØ	10Ø	5.0mØ	70 †				1.3p☑	EP	TO39
32	MRF902	400mØ§	4.5G§	4.0mØ	§S	25	15	3.0	30m	50nØ♦	10Ø	5.0mØ	30 †△				400f§	Ø	W29a R
33#	RTC101L	400m	4.5G§		§J	35	22	2.5	60m	10mØ	1.0Ø	10mØ	20 †△				500f§		W89 V
34	AT1425	400m	5.0G§	2.2m	§J	20	12	3.0	100m	20nØ	10Ø	15mØ	75 †				500f§☑	PEØ	W8 Y
35	AT2625	400m	5.0G§	2.2m	§J	20	12	3.0	50m	20nØ	10Ø	15mØ	75 †				500f§☑	PEØ	W14 S
36	MRF911	400mØ#	5.0G§	4.0mØ	§S	20	12	3.0	40m	50nØ♦	10Ø	30mØ	30 †△				600f§	Ø	W33 V
37	AT1445	400m	5.5G§	2.2m	§J	20	12	3.0	100m	20nØ	10Ø	15mØ	75 †				500f§☑	PEØ	W8 Y
38	AT1445A	400m	5.5G§	2.2m	§J	20	12	3.0	100m	20nØ	10Ø	15mØ	75 †				500f§☑	PEØ	W8 Y
39	AT2645	400mØ	5.5G§	2.2m	§J	20	12	3.0	50m	20nØ	10Ø	15mØ	75 †				500f§☑	PEØ	W26 C
40	AT2645A	400mØ	5.5G§	2.2m	§J	20	12	3.0	50m	20nØ	10Ø	15mØ	75 †				500f§☑	PEØ	W26 C
41▼	HXTR6105*	400mØ	6.5GØ	4.4mØ	§J	25	16	1.0	30m	100nØ	15Ø	15mØ	120 †						W26a V
42#	2SC1559	400m	7.0G§		§J	15	8.0	3.0	80m	100nØ	3.0Ø	50mØ	75 †				1.5p☑	EP	W70 C
43	PE5025	425m	300M§△	5.0m	§J	30	30	3.0	100m#	50nØ	10Ø	10mØ	20 †△				1.1pt☑		
44	PE3100	425m	500M§△	5.0m	§J	30	30	3 0	100m#	100nØ	10Ø	5 0mØ	30 †△				800f§☑	DPE	
45	PE5029	425m	500M§△	5.0m	§J	35	30	3.0	100m#	200nØ	10Ø	5.0mØ	30 †△				400f§☑		
46	PE5030B	425m	600M§△	5.0m	§J	45	40	4.5	100m#	100nØ	15Ø	7.0mØ	45 †△				400f§☑		
47	PE5031	425m	600M§△	5.0m	§J	40	30	4.0	100m#	100nØ	10Ø	5.0mØ	30 †△				400f§☑		
48#	BSX75†	430m	100M§△	3.3m	§J	40	25	5.0	1.0	10u	10Ø	150mØ	40 †△#				8.0p	PE△	TO18 AØ
49	K6002	450mØ		3.0m	§J	20		3.0	125m	10nØ	10Ø	5.0mØ	20 △				1.7p§☑		TO72 G
50	K6003	450mØ		3.0m	§J	20		3.0	125m	10nØ	10Ø	5.0mØ	20 △				1.7p§☑		TO72 G
51	K6009	450mØ		3.0m	§J	20		3.0	125m	10nØ	10Ø	5.0mØ	20 △				1.7p§☑		TO72 G
52	K6012	450mØ		3.0m	§J	20		3.0	125m	10nØ	10Ø	5.0mØ	20 △				1.7p§☑		TO72 G
53	K6022	450mØ		3.0m	§J	20		3 0	125m	10nØ	10Ø	5.0mØ	20 △				1.7p§☑		TO72 G
54	2N2395	450m	40M§△	2.6m	§J	60	40	5.0	300m	.01uØ	10Ø	150mØ	20 †#△				30p☑	PL	W4
55	2N2396	450m	50M§△	2.6m	§J	60	40	5.0	300m	.01uØ	10Ø	150mØ	40 †#△				30p☑	PL	W4
56	SE7015	450m	50M§△	4.5m	♦J	100	100	6.0		10nØ	10Ø	25mØ	50 †#△				3.5p§☑	PL	TO105 A
57	SE7016	450m	50M§△	4.5m	♦J	140	140	6.0		10nØ	10Ø	25mØ	50 †#△				3.5p§☑	PL	TO105 A
58	SE7017	450m	50M§△	4.5m	♦J	180	180	6.0		10nØ	10Ø	25mØ	50 †#△				3p§☑	PL	TO105 A
59	2N2389†	450m	60M§△	2.5m	§J	75	50 §	7.0	500m	10nØ	10Ø	5.0mØ	35 △	1.0u☑b	8.0 ☑	3.0 ☑	25p☑	PLØ	W4
60	2N2390	450m	70M§△	2.5m	§J	75	50 §	7.0	500m	10nØ	10Ø	5.0mØ	70 △	1.0u☑b	8.0 ☑	5.0 ☑	25p☑	PLØ	W4
61	2N3728*	450m	80M§△	2.6m	§J	60	30	5.0		.01uØ	10Ø	1.0mØ	50 △	20u☑	6k☑	3 ☑	8p☑	Ø*	R131c PA
62	2N3729*	450m	80M§△	2.6m	§J	60	30	5.0		.01uØ	10Ø	1.0mØ	50 △		6k☑	3 ☑	8p☑	Ø*	R131c PA
63#	BCW73-16†	450m	100M§△	2.6m	§J		32	5.0	800m	20n§	1.0Ø	100mØ	250 †☑				12p§☑	PE	TO18 A
64#	BCW73-25†	450m	100M§△	2.6m	§J		32	5.0	800m	20n§	1.0Ø	100mØ	400 †☑				12p§☑	PE	TO18 A
65#	BCW73-40†	450m	100M§△	2.6m	§J		32	5.0	800m	20n§	1.0Ø	100mØ	630 †☑				12p§☑	PE	TO18 A
66#	BCW74-16†	450m	100M§△	2.6m	§J		45	5.0	800m	20n§	1.0Ø	100mØ	250 †☑				12p§☑	PE	TO18 A
67#	BCW74-25†	450m	100M§△	2.6m	§J		45	5.0	800m	20n§	1.0Ø	100mØ	400 †☑				12p§☑	PE	TO18 A
68#	BCW74-40†	450m	100M§△	2.6m	§J		45	5.0	800m	20n§	1.0Ø	100mØ	630 †☑				12p§☑	PE	TO18 A
69#	BCX22	450m	100M§	2.5m	§J		125	5.0	800m		1.0Ø	100mØ	63 †△				12p	PE	TO18 A
70#	BCX24	450m	100M§	2.5m	§J		100 Ø	7.0	800m	30n§							12p	PE	TO18 A
71#	2SC1596	450m	130M§	3.0m	§J	150	120	5.0	50m	1.0uØ	5.0Ø	10mØ	60 †				2.0p	PE△	R213 AØ
72#	BCX58IX†	450m	250M§	3.5m	§J		32	7.0	100m	10n§	5.0Ø	10uØ	220 †	30u	4.5k	2.0	4.5p§☑	PEØ	R204c A
73#	BCX58VIII†	450m	250M§	3.5m	§J		32	7.0	100m	10n§	5.0Ø	10uØ	78 †	18u	2.7k	1.5	4.5p§☑	PEØ	R204c A
74#	BCX58VIII†	450m	250M§	3.5m	§J		32	7.0	100m	10n§	5.0Ø	10uØ	145 †	24u	3.6k	2.0	4.5p§☑	PEØ	R204c A
75#	BCX58X†	450m	250M§	3.5m	§J		32	7.0	100m	10n§	5.0Ø	10uØ	300 †	50u	7.5k	3.0	4.5p§☑	PEØ	R204c A
76#	BCX59IX†	450m	250M§	3.5m	§J		45	7.0	100m	10n§	5.0Ø	10uØ	220 †	30u	4.5k	2.0	4.5p§☑	PEØ	R204c A
77#	BCX59VII†	450m	250M§	3.5m	§J		45	7.0	100m	10n§	5.0Ø	10uØ	78 †	18u	2.7k	1.5	4.5p§☑	PEØ	R204c A
78#	BCX59VIII†	450m	250M§	3.5m	§J		45	7.0	100m	10n§	5.0Ø	10uØ	145 †	24u	3.6k	2.0	4.5p§☑	PEØ	R204c A
79#	BCX59X†	450m	250M§	3.5m	§J		45	7.0	100m	10n§	5.0Ø	10uØ	300 †	50u	7.5k	3.0	4.5p§☑	PEØ	R204c A
80#	BFW42	450m	750M§	3.6m	§S	40	20	4.0	100m	100u	5.0Ø	50mØ	75				3.5p☑	PE	TO5 AØ
81#	BLX88	450m	800M	2.5m	§S	50	30	4.0	100m	50nØ	5 0	50	80				2 5p☑	PE	TO5 A
82#	2SC1954	450m	1.5G§	3.6m	§J	25	20	3.0	150m	1.0uØ	10Ø	25mØ	100 †				2.0p	PE	R195d B
83	KD5526	450mØ	2.0G§△	2.6m	§J	20	12	2.5	30m	.05uØ	1.0Ø	3.0mØ	20 †△				.75p☑	PEØ	W44 V
84▼	MA42001-509*	450mØ	2.2G§	3.0mØ	§J	20		3.0	125m	10nØ	10Ø	5.0mØ	20 †△				1.7p§☑	PL	TO72 G
85▼	MA42002-509*	450mØ	2.2G§	3.0mØ	§J	20		3.0	125m	10nØ	10Ø	5.0mØ	20 †△				1.7p§☑	PL	TO72 G
86▼	MA42003-509*	450mØ	2.2G§	3.0mØ	§J	20		3.0	125m	10nØ	10Ø	5.0mØ	20 †△				1.7p§☑	PL	TO72 G
87▼	MA42004-509*	450mØ	2.2G§	3.0mØ	§J	20		3.0	125m	10nØ	10Ø	5.0mØ	20 †△				1.7p§☑	PL	TO72 G
88▼	MA42005-509*	450mØ	2.2G§	3.0mØ	§J	20		3.0	125m	10nØ	10Ø	5.0mØ	20 †△				1.7p§☑	PL	TO72 G
89▼	MA42009-509*	450mØ	2.2G§	3.0mØ	§J	20		3.0	125m	10nØ	10Ø	5.0mØ	20 †△				1.7p§☑	PL	TO72 G
90▼	MA42010-509*	450mØ	2.2G§	3.0mØ	§J	20		3.0	125m	10nØ	10Ø	5.0mØ	20 †△				1.7p§☑	PL	TO72 G
91▼	MA42011-509*	450mØ	2.2G§	3.0mØ	§J	20		3.0	125m	10nØ	10Ø	5.0mØ	20 †△				1.7p§☑	PL	TO72 G
92▼	MA42056-510*	450mØ	2.3G§	2.5mØ	§J	20		2.5	40m	50nØ	1.0Ø	3.0mØ	20 †△				750f	PL	W115 R
93	KD5520	450m	2.5G§	2.6m	§J	30		2.0		300nØ	10Ø	8.0m	20				700f☑		W44 U
94	KD5521	450m	2.5G§	2.6m	§J	30		2.0		300nØ	10Ø	8.0m	20				700f☑		W44 U
95	KD5522	450m	2.5G§	2.6m	§J	25	12	2.0	40m	500nØ	10Ø	8.0m	20				700f☑	PE	W44 u
96	KD5523	450m	2.5G§	2.6m	§J	25	12	2.0	40m	500nØ	10Ø	8.0m	20				700f☑	PE	W44 U
97▼	MA42050-510*	450mØ	2.5G§	2.5mØ	§J	20		2.5	40m	50nØ	1.0Ø	3.0mØ	20 †△				750f	PL	W115 R
98▼	MA42057-510*	450mØ	2.5G§	2.5mØ	§J	20		2.5	40m	50nØ	1.0Ø	3.0mØ	20 †△				750f	PL	W115 R
99▼	MA42060-510*	450mØ	2.5G§	2.5mØ	§J	20		2.5	40m	50nØ	1.0Ø	3.0mØ	20 †△				750f	PL	W115 R
100▼	MA42061-510*	450mØ	2.5G§	2.5mØ	§J	20		2.5	40m	50nØ	1.0Ø	3.0mØ	20 †△				750f	PL	W115 R
101▼	MA42062-510*	450mØ	2.5G§	2.5mØ	§J	20		2.5	40m	50nØ	1.0Ø	3.0mØ	20 †△				750f	PL	W115 R
102▼	MA42063-510*	450mØ	2.5G§	2.5mØ	§J	20		2.5	40m	50nØ	1.0Ø	3.0mØ	20 †△				750f	PL	W115 R
103▼	MA42055-510*	450mØ	2.6G§	2.5mØ	§J	20		2.5	40m	50nØ	1.0Ø	3.0mØ	20 †△				750f	PL	W115 R
104▼	MA42051-510*	450mØ	2.8G§	2.5mØ	§J	20		2.5	40m	50nØ	1.0Ø	3.0mØ	20 †△				750f	PL	W115 R
105▼	MA42052-510*	450mØ	2.8G§	2.5mØ	§J	20		2.5	40m	50nØ	1.0Ø	3.0mØ	20 †△				750f	PL	W115 R
106	K6001	450mØ	3.5G§	3.0m	§J	20		3.0	125m	10nØ	10Ø	5.0mØ	20 △				1.7 $☑	Ø	TO72 G
107	K6011	450mØ	3.5G§	3.0m	§J	20		3.0	125m	10nØ	10Ø	20mØ	20 △				1.7p§☑	Ø	TO72 G
108	K6021	450mØ	3.5G§	3.0m	§J	20		3.0	125m	10nØ	10Ø	20mØ	20 △				1.7p§☑	Ø	TO72 G
109▼	HXTR2101*	450mØ§	6.5GØ	4.4mØ	§J	25	16	1.0	35m	100nØ	15Ø	15mØ	120 †						W26a V
110#	2SC1762	470m	13M§		§J	700	400	10	150m	10uØ	5.0Ø	10mØ	30 †△				15p☑	PL	TO39 A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	40080	500m	27.M*	2.9m	§J		30		250m	10u							6pØ	DPL	TO5	AØ
2	2N337A	500m	30.M	3.3m	§J	45	35	2 5	20m	50u	20	1 0mØ	55	13u	2.5k	2.5	2.0p	D	TO5	A
3	A5T929	500m	30M§Δ	2.8m	§S	45	45	5.0	50m	10n	5.0	1.0mØ	60 Δ	1.0ubØ	32	6.0	8.0pØ	Ø	R203	A
4	A5T930	500m	30M§Δ	2.8m	§S	45	45	5.0	50m	10n	5.0	1.0mØ	150 Δ	1.0ubØ	32	6.0	8 0pØ	Ø	R203	A
5▼	HSE210-RT	500m	30M§Δ	4.0m	§J	60	40	5.0		500nØ	10Ø	150mØ	30 †Δ						TO18	A
6	2N1140	500m$	35M§Δ	5.0m	§J	40	40	5.0		15u	6.0Ø	1.0mØ	20 Δ				20pØ		R179e	AØ
7	2N719A	500m	40M§Δ	2.8m	§J	120	60	7.0	10 #	10nØ	5 0	1.0mØ	15 Δ	500nØb	35 Ø	2.5 Ø	15pØ		TO18	AØ
8	2N730†	500m	40M§Δ	3.3m	§J	60	40 §	5.0	1	1.0u	10Ø	150mØ	40 †#				35pØ	PL	TO18	AØ
9	2N866†	500m	40MΔ§	3.0m	▼S	30	20 §	5.0	600m	100u	10Ø	150mØ	15 †Δ				45p		TO18	
10	2N912	500m	40M§Δ	2.8m	§J	100	60	7.0		25nØ	5.0Ø	1 0mØ	18 Δ	25uØ	600 Ø		15pØ		TO18	AØ
11	JAN2N912	500m	40M§Δ		§J	100	60	7.0		15nØ	5.0Ø	5.0 Ø	20 Δ	25uØ	500 Ø	1.5 Øb	15pØ		TO18	AØ
12	2N338A	500m	45.M	3.3m	§J	45	35	2.5	20m	.50u	20	1.0mØ	99	15u	3.0k	2.6	2.0p	D	TO5	A
13	2N929A	500m	45M§Δ	2.8m	§S	60	45	6.0	30m	2.0nØ	5.0Ø	1.0mØ	60 Δ	1.0uØb	32 Ø	6.0 Ø	6.0pØ		TO18	AØ
14	2N930A	500m	45M§Δ	2.8m	§S	60	45	6.0	30m	2.0nØ	5.0Ø	1.0mØ	150 Δ	1.0uØb	32 Ø	6.0 Ø	6.0pØ	Ø	TO18	AØ
15	2N930B	500m	45M§Δ	2.8m	§S	60	45	6.0	30m	2.0nØ	5.0Ø	1.0mØ	150 Δ	1.0uØb	32 Ø	6 0 Ø	6.0pØ	Ø	TO18	AØ
16	2N560†	500m	50.M	4.0m	§J	60	60 Ø	8.0	100m	.10uØ	5.0Ø	100mØ	20 †Δ				8pØ	D	TO29	AØ
17	2N720A	500m	50M§Δ	10m	§J	120	80	7.0		10nØ	5.0	1.0mØ	30 Δ	500nØb	30 Ø	1.2 Ø	15pØ		TO18	AØ
18	2N731†	500m	50M§Δ	3.3m	§J	60	40 §	5.0	1	1.0u	10Ø	150mØ	80 †#				35pØ	PL	TO18	AØ
19	2N756	500m	50MΔ	2 8m	§A	45	45	6.0	100m	200nØ	5.0	1.0m	12 Δ	1.0uØb	80 Ø	10 Ø	8 0pØ		TO18	AØ
20	2N756A	500m	50MΔ	2.8m	§A	60	60	6.0	100m	100nØ	5.0	1.0m	12 Δ	1.0uØb	80 Ø	10	8.0pØ		TO18	AØ
21	2N757	500m	50MΔ	2.8m	§A	45	45	6.0	100m	200nØ	5.0	1.0m	18 Δ	1 0uØb	80 Ø	10 Ø	8 0pØ		TO18	AØ
22	2N757A	500m	50MΔ	2.8m	§A	60	60	6.0	100m	100nØ	5.0	1.0m	18 Δ	1.0uØb	80 Ø	10	8.0pØ		TO18	AØ
23	2N758	500m	50MΔ	2.8m	§A	45	45	8.0	100m	200nØ	5.0	1.0m	18 Δ	1.0uØb	80 Ø	10 Ø	8.0pØ		TO18	AØ
24	2N758A	500m	50MΔ	2.8m	§A	60	60	7.0	100m	100nØ	5.0	1.0m	18 Δ	1.0uØb	80 Ø	10	8.0pØ		TO18	AØ
25	2N758B	500m	50MΔ	2.8m	§A	60	60	8.0	100m	5.0nØ	5.0Ø	1.0m	18 Δ	1.0uØb	35 Ø	6.0 Ø	6.0pØ		TO18	AØ
26	2N759	500m	50MΔ	2 8m	§A	45	45	8.0	100m	200nØ	5.0	1.0m	36 Δ	1.0uØb	80 Ø	10 Ø	8.0pØ		TO18	AØ
27	2N759A	500m	50MΔ	2.8m	§A	60	60	7.0	100m	100nØ	5.0	1.0m	36 Δ	1.0uØb	80 Ø	10	8.0pØ		TO18	AØ
28	2N759B	500m	50MΔ	2.8m	§A	60	60	8.0	100m	5.0nØ	5.0Ø	1.0m	36 Δ	1.0uØb	35 Ø	6.0 Ø	6.0pØ		TO18	AØ
29	2N760	500m	50MΔ	2.8m	§A	45	45	8.0	100m	200nØ	5.0	1.0m	76 Δ	1.0uØb	80 Ø	10 Ø	8.0pØ		TO18	AØ
30	2N760A	500m	50MΔ	2.8m	§A	60	60	7.0	100m	100nØ	5.0	1.0m	36 Δ	1.0uØb	80 Ø	10	8.0pØ		TO18	AØ
31	2N760B	500m	50MΔ	2.8m	§A	60	60	8.0	100m	5.0nØ	5 0Ø	1.0m	76 Δ	1.0uØb	35 Ø	6.0 Ø	6.0pØ		TO18	AØ
32	2N761	500m	50MΔ	2.8m	§A	50	30	6.0	100m	200nØ	20	1 0m	19 Δ	1.0uØb	80 Ø	20 Ø	6.0pØ		TO18	AØ
33	2N762	500m	50MΔ	2.8m	§A	50	30	6.0	100m	200nØ	20	1.0m	39 Δ	1.0uØb	80 Ø	20 Ø	6.0pØ		TO18	AØ
34	2N867†	500m	50MΔ§	3.0m	▼S	30	20 §	5 0	600m	100u	10Ø	150mØ	30 †Δ				45p		TO18	
35	2N870	500m	50M§Δ	2.8m	§J	100	60	7.0		10nØ	5.0Ø	1.0mØ	30 Δ	500nØb	30 Ø	1.2 Ø	15pØ		TO18	AØ
36	2N911	500m	50M§Δ	2.8m	§J	100	60	7.0		25nØ	5.0Ø	1.0mØ	36 Δ#	50uØ	1.0k		15pØ		TO18	AØ
37	JAN2N911	500m	50M§Δ		§J	100	60	7.0		15nØ	5.0Ø	5.0 Ø	40 Δ	50uØ	1.0kØ	1 7 Øb	15pØ		TO18	AØ
38	2N981	500m	50M§Δ	2.8m	§A	80	80	8.0	100m	1.0uØ	5.0	1.0m	36 Δ	1 0uØb	80 Ø	10 Ø	5 0pØ		TO18	AØ
39	2N2223*	500m	50M§Δ	2.8m	§J	100	60	7.0	500m	10nØ	5.0Ø	1.0mØ	40 Δ	500nØb	30 Ø	3.0 Ø	15pØ	*	R131c	PA
40	2N2223A*	500m	50M§Δ	2.8m	§J	100	60	7 0	500m	10nØ	5.0Ø	1.0mØ	40 Δ	500nØb	30 Ø	3.0 Ø	15pØ	*	R131c	PA
41	2N2414*	500m	50M§Δ	2.8m	§J	60	28	5.0	500m	25n	10Ø	5.0mØ	50 Δ	1.0uØb	8.0 Ø	5.0 Ø	25pØ		R131c	PA
42	2N2427	500m	50.M		§J	40		4.0	50m	.50u	3.0	.01m	20 †						TO18	AØ
43	2N2645	500m	50M§Δ	2.8m	§J	75	50 §	7.0		10nØ	5.0Ø	1.0mØ	75 Δ	500nØb	34 Ø	5.0 Ø	25pØ	Ø	TO18	AØ
44	2N3241	500m	50M§Δ	3.3m	§S	30	25	5.0	100m	100n	12Ø	10mØ	70 Δ	350uØ	1.0kØ		30pØ		R178a	AØ
45	2N3241A	500m	50M§Δ	3.3m	§S	30	25	7.5	200m	100nØ♦	12Ø	10mØ	100 Δ	350uØ	1.0kØ		20pØ		R179d	AØ
46	2N3242	500m	50M§Δ	3.3m	§S	30	25	5.0	200m	10n	12Ø	10mØ	100 Δ	350uØ	1.5kØ		30pØ	Ø	R178a	AØ
47	2N3242A	500m	50M§Δ	3.3m	§S	40	40	8.0	300m	10nØ♦	12Ø	10mØ	125 Δ	350uØ	1.5kØ		20pØ	Ø	R179d	AØ
48	2N4068	500m	50M§Δ	3.3m	§S	150	150	5.0	200m	.05uØ	10Ø	30mØ	30 †Δ				3.5p$Ø		TO104	AØ
49	40397	500m	50.M§	3.3m	§J		25	7.5	200m	.10u	12Ø	10mØ	375	120u	1.2k	2.5	12p	PE	R179d	
50	40398	500m	50.M§	3.3m	§J		25	7.5	200m	.10u	12Ø	10mØ	200	75u	600	1.2	12p	PE	R179d	
51	40399	500m	50.M§	3.3m	§J		18	7.0	200m	.50uØ	12Ø	10mØ	375	120u	1.2k	2.5	12p	PE	R179d	
52	40400	500m	50.M§	3.3m	§J		18	7.0	200m	.50uØ	12Ø	10mØ	200	75u	600	1.2	12p	PE	R179d	
53#	BCW25*	500m	50M	2 8m	§S	60	50	5.0	500m	100nØ	5.0Ø	100uØ	25 †Δ#				15pØ	PL	R131	PA
54#	BCW26	500m	50M	2.8m	§S	60	50	5.0	500m	100nØ	5.0Ø	100uØ	25 †Δ#				15pØ	PL*	R131	PA
55	2N718A	500m	60M§Δ		§J	75	32	7.0		10nØ	5.0	1.0mØ	30 Δ	500nØb	34 Ø	3.0 Ø	25pØ	DΔ	TO18	AØ
56	JAN2N718A	500m	60M§Δ	2.8m	§J	75	30	7.0	500m	10nØ	5.0Ø	1.0mØ	100 Ø	1.0uØb	8.0 Ø	3.0 Ø	25pØ	Δ	TO18	AØ
57	JAN2N720A	500m	60M§Δ	2.8m	§J	120	80	7.0	500m	10nØ	5.0Ø	1.0mØ	100 Ø	500nØb	8.0 Ø	1.5 Ø	15pØ	Δ	TO18	AØ
58	2N735A	500m	60M§Δ	2.8m	§S	80	60	6.0	50m	5.0nØ	5 0Ø	5.0m	40 Δ		1.5kØ		6.0pØ		TO18	AØ
59	2N739A	500m	60M§Δ	2.8m	§S	125	80	8 0	50m	5.0nØ	5.0Ø	5.0m	40 Δ		1.5kØ		6.0pØ		TO18	AØ
60	JAN2N757A	500m	60M§Δ	2.8m	§S	75	60	6.0	100m	10uØ	5.0	1.0m	18 Δ	1.0uØb	80 Ø	10 Ø	6.0pØ		TO18	AØ
61	JAN2N759A	500m	60M§Δ	2.8m	§S	75	60	8.0	100m	10uØ	5.0	1.0m	36 Δ	1.0uØb	80 Ø	10 Ø	6.0pØ		TO18	AØ
62	JAN2N760A	500m	60M§Δ	2.8m	§S	75	60	8.0	100m	10uØ	5.0	1.0m	76 Δ	1.0uØb	80 Ø	10 Ø	6 0pØ		TO18	AØ
63	2N871	500m	60M§Δ	2.8m	§J	100	60	7.0		10nØ	5.0Ø	1.0mØ	50 Δ	300nØb	30 Ø	1.5 Ø	15pØ		TO18	AØ
64	2N910	500m	60M§Δ	2.8m	§J	100	60	7.0		25nØ	5.0Ø	1.0mØ	76 Δ	100uØ	1.8kØ		15pØ		TO18	AØ
65	JAN2N910	500m	60M§Δ		§J	100	60	7.0		15nØ	5.0Ø	5.0 Ø	80 Δ	100uØ	1.6kØ	3.0 Øb	15pØ		TO18	AØ
66	2N2060*	500m	60M§Δ	2.9m	§S	100	60	7.0	500m	2nØ	5.0Ø	1.0m	50 Δ	16uØ	4kØ		15pØ	*Ø	R131c	PA
67	2N2060A*	500m	60M§Δ	2.8m	§J	100	60	7.0	500m	2.0nØ	5.0Ø	1.0mØ	50 Δ	16uØ	4.0kØ		15pØ	*	R131c	PA
68	2N2060B*	500m	60M§Δ	2.9m	§J	100	60	7.0	500m	2nØ	5.0Ø	1.0mØ	50 Δ	16uØ	4kØ	10 Ø	15pØ	Ø*	R131c	PA
69#	2SC848	500m	60.M§	3.3m	§J	30	20	5.0	200m	.10uØ	4.0Ø	10mØ	160 †					PL	TO18	
70#	2SC849†	500m	60.M§	3.3m	§J	30	20	5.0	300m	.50uØ	4.0Ø	10mØ	160 †					PL	TO18	
71#	2SC1246A	500m	60M§	3.3m	§J	30	20	5.0	500m	1.0uØ	6.0Ø	100mØ	160 †		70		12p	PE	R195d	B
72#	2SC1247A	500m	60M§	3.3m	§J	50	30	5.0	500m	1.0uØ	6.0Ø	100mØ	160 †		70		12p	PE	R195d	B
73	40231	500m	60M§	3.3m	§J	18	18	5.0	100m	500nØ	10Ø	2.0mØ	80				22p	PLØ	R92	Ø
74	40232	500m	60M§	3.3m	§J	18	18	5.0	100m	500nØ	10Ø	2.0mØ	175				22p	PLØ	R92	Ø
75	40233	500m	60M§	3.3m	§J	18	18	5.0	100m	250nØ	10Ø	2.0mØ	175				22p	PLØ	R92	Ø
76	A5T2484	500m	60M§Δ	2.8m	§S	60	60	6.0	50m	10nØ	5.0Ø	100uØ	150 Δ	40uØ	24k	8.0	6.0pØ	†	R203	A
77#	BC284	500m	60M§	10m	§	40	40	5.0	200m	50n	10Ø	10mØ	100 †Δ	60u	1.0k	1.5	15p	PL	TO18	A
78#	BC284A	500m	60M§	2.8m	§J	40	40	5.0	200m	50n	10Ø	10mØ	100 †Δ	60m	1.0k	1.5	15p	DPL	TO18	
79#	BC284B	500m	60M§	2.8m	§J	40	40	5.0	200m	50n	10Ø	10mØ	200 †Δ	80m	1.3k	1.8	15p	DPL	TO18	
80	UPI718A	500m	60M§Δ		§J	75	32	7.0		10nØ	5 0	1.0mØ	30 Δ	500nØb	34 Ø	3.0 Ø	25pØ		TO106	A
81	2N5183	500m	62M§Ø	3.3m	§S	18	18	7 0	1.0	500nØ	12Ø	10mØ	70 Ø				20p$		TO104	AØ
82	2N707A	500m	70.MΔ	3.3m	§S	70	40	5.0	100m	1 0uØ	1 0Ø	10mØ	9 †#Δ				6pØ		TO18	AØ
83	2N715	500m	70.MΔ	3.3m	§S	50	35	5.0	100m	10u	10Ø	15mØ	10 †#Δ				6pØ		TO18	AØ
84	2N716	500m	70.MΔ	3.3m	§S	70	40	5.0	100m	10u	10Ø	15mØ	10 †#Δ				6pØ		TO18	AØ
85	2N956	500m	70M§Δ	2.8m	§J	75	50 §	7.0		10nØ	5.0Ø	1.0mØ	50 Δ	500nØb	34 Ø	5.0 Ø	25pØ	Ø	TO18	AØ
86	2N2437	500m	70M§Δ	2.8m	§J	100	75	7.0	500m	1.0nØ	10Ø	5.0mØ	20 Δ	1 0uØb	30 Ø	1.8 Ø	15pØ	Ø	TO46	AØ
87#	2SC847	500m	70.M§	3.3m	§J	30	20	5.0	200m	.50uØ	4.0Ø	10mØ	160 †				10p	PL	TO18	
88#	2SC850†	500m	70.M§	3.3m	§J	50	30	7.0	500m	.50uØ	4.0Ø	10mØ	160 †					PL	TO18	
89#	2SC966	500m	70M§	3.3m	§J	30	20	5.0	200m	500nØ	6.0Ø	1.0m	120				10p	PEØ	R213	AØ
90#	2SC967	500m	70M§	3.3m	§J	30	20	5.0	500m	1.0uØ	6.0Ø	1.0m	120					PE	R213	AØ
91#	2SC968	500m	70M§	3.3m	§J	50	30	5.0	500m	1.0uØ	4.0Ø	10mØ	160 †		40		10p	PE	R213	AØ
92#	2SD619	500m	70M§Δ	4.0mØ	§J	80	60	5.0	1.5	1.0u	2.0Ø	1.0	20 †				25p	D	R182c	B
93	UPI956	500m	70M§Δ	2.8m	§J	75	50	7.0		10nØ	5.0Ø	1.0mØ	50 Δ	500nØb	34 Ø	5.0 Ø	25pØ		TO106	A
94	JAN2N1051	500m	80M§Δ	4.0m	§S		40	8.0	100m	100nØ	5.0Ø	5.0	30 Δ		15 Øb		7.0pØ		R179e	A
95	2N1893/46	500m	80MΔ	4.5m	§J	120	80	7.0	500m	10nØ	10Ø	150mØ	80 †#	11u	2.8k	3.5	15pØ	PLΔ	TO46	
96	2N2433	500m	80M§Δ	2.8m	§J	75	45	7.0	1.0	1.0nØ	10Ø	5.0mØ	35 Δ	1 0uØb	30 Ø	1.5 Ø	20pØ	Δ	TO46	AØ
97	2N2435	500m	80M§Δ	2.8m	§J	120	80	7.0	500m	1.0nØ	10Ø	5.0mØ	45 Δ	500nØb	30 Ø	1.5 Ø	15pØ	Δ	TO46	AØ
98	2N2438	500m	80M§Δ	2.8m	§J	100	75	7.0	500m	1.0nØ	10Ø	5.0mØ	40 Δ	1.0uØb	30 Ø	1.8 Ø	15pØ	Ø	TO46	AØ
99	2N3701	500m	80M§Δ	2.9m	§S	140	80	7.0	1	.01uØ	5.0Ø	1.0mØ	30 Δ				12pØ	Ø	TO18	AØ
100	40457	500m	80M§Δ	2.9m	§J	25	25	7 0	1.0	500n	1.0Ø	600mØ	60 Δ#				20pØ	PE	TO18	
101	40500	500m	80M§Δ	2.9m	§J	30	30	7.5	200m	100n	10Ø	10mØ	100 Δ				20pØ	PE	TO18	
102	D32H1	500m	80M§Δ	4.0m	§J	60	60	5.0	500m	25nØ	1.0Ø	10mØ	60 †Δ#				12p$Ø	PEΔ	R203a	A
103	D32H2	500m	80M§Δ	4.0m	§J	60	60	5.0	500m	25nØ	1.0Ø	10mØ	100 †Δ#				12p$Ø	PEΔ	R203a	A
104	D32H3	500m	80M§Δ	4.0m	§J	60	60	5.0	500m	25nØ	1.0Ø	10mØ	250 †Δ#				12p$Ø	PEΔ	R203a	A
105	D32H4	500m	80M§Δ	4.0m	§J	80	80	5.0	500m	25nØ	1.0Ø	10mØ	60 †Δ#				12p$Ø	PEΔ	R203a	A
106	D32H5	500m	80M§Δ	4.0m	§J	80	80	5.0	500m	25nØ	1.0Ø	10mØ	100 †Δ#				12p$Ø	PEΔ	R203a	A
107	D32H6	500m	80M§Δ	4.0m	§J	80	80	5.0	500m	25nØ	1.0Ø	10mØ	250 †Δ#				12p$Ø	PEΔ	R203a	A
108	D32H7	500m	80M§Δ	4.0m	§J	100	100	5.0	500m	25nØ	1.0Ø	10mØ	60 †Δ#				12p$Ø	PEΔ	R203a	A
109	D32H8	500m	80M§Δ	4.0m	§J	100	100	5.0	500m	25nØ	1.0Ø	10mØ	100 †Δ#				12p$Ø	PEΔ	R203a	A
110	D32H9	500m	80M§Δ	4.0m	§J	100	100	5.0	500m	25nØ	1.0Ø	10mØ	250 †Δ#				12p$Ø	PEΔ	R203a	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1♦#	PE107A	500m	200M§△	4.0m	$J	50	45	4.0	100m	200nØ	5.0Ø	2.0mØ	220 †☑				3.0p☑	PE	R222	F
2♦#	PE108	500m	200M§△	4.0m	$J	35	25	4.0	100m	200nØ	5.0Ø	2.0mØ	130 †☑				3.0p☑	PE	R222	F
3♦#	PE108A	500m	200M§△	4.0m	$J	35	25	4.0	100m	200nØ	5.0Ø	2.0mØ	220 †☑				3.0p☑	PE	R222	F
4♦#	PE108B	500m	200M§△	4.0m	$J	35	25	4.0	100m	200nØ	5.0Ø	2.0mØ	450 †☑				3.0p☑	PE	R222	F
5♦#	PE108C	500m	200M§△	4 0m	$J	35	25	4.0	100m	200nØ	5.0Ø	2 0mØ	800 †☑				3.0p☑	PE	R222	F
6♦#	PE255D	500m	200M§	4.0m	$J	30	20	5.0	30m	200nØ	10Ø	1.0mØ	70 †☑				750ft	PE	R222	E
7	SK3122-RT	500m	200M§			70	60	6.0	800m				150 †						R203a	A
8#	2SC2051	500m	220M§		$J	60	40	6.0	250m	500nØ	1.0Ø	100mØ	100 †				3.0p	PE	R219	B
9#	2SC796	500m	230M§	3.3m	§J	40	30	2.0	500m	5.0uØ	20Ø	15m	50				5.0p	PE	TO5	A
10	SE8040	500m	230M§	5.0m	♦J	30	30	6.0	1.0	50nØ	1.0Ø	150mØ	70 †#				9.0p$	DPL	R124c	A
11	2N2220	500m	250M§△	2.8m	§J	60	30	5.0	800m	10nØ	10Ø	1.0mØ	12 †△				8.0p☑	△	TO18	AØ
12	2N2221	500m	250M§△	2.8m	§J	60	30	5.0	800m	10nØ	10Ø	1.0mØ	25 †△				8.0p☑	△	TO18	AØ
13	JAN2N2221†	500m	250M§△	3.3m	§S	60	30	5.0	800m	10nØ	10Ø	1.0mØ	25 △				8.0p☑		TO18	AØ
14	2N2221A†	500m	250M§△	3.3m	§J	75	40	6.0	800m	.01uØ	10Ø	1.0mØ	30 △	15u☑	3.5k☑	5 ☑	8p☑	Ø	TO18	AØ
15	JAN2N2221A†	500m	250M§△	3.3m	§S	75	50	6.0	800m	10nØ	10Ø	1.0mØ	30 △				8.0p☑		TO18	AØ
16	2N2222	500m	250M§△	2.8m	§J	60	30	5.0	800m	10nØ	10Ø	1.0mØ	50 †△				8.0p☑	△	TO18	AØ
17	JAN2N2222†	500m	250M§△	3.3m	§S	60	30	5.0	800m	10nØ	10Ø	1.0mØ	50 △				8.0p☑		TO18	AØ
18	JAN2N2222A†	500m	250M§△	3.3m	§S	75	50	6.0	800m	10nØ	10Ø	1.0mØ	50 △				8.0p☑		TO18	AØ
19	2N2539†	500m	250M§△	2.9m	§J	60	30	5.0	800m	.25uØ	10Ø	1.0mØ	20 †△				8p☑		TO18	AØ
20	2N2540†	500m	250M§△	2.9m	§J	60	30	5.0	800m	.25uØ	10Ø	1.0mØ	35 †△				8p☑		TO18	AØ
21	2N2790†	500m	250M§△	2.8m	§J	75	35	5.0	800m	10nØ	20Ø	20mØ	30 △	200u☑b	35 ☑	1.5 ☑	8.0p☑		TO18	AØ
22	2N2791†	500m	250M§△	2.8m	§J	75	35	5.0	800m	10nØ	20Ø	20mØ	75 △	200u☑b	35 ☑	2.0 ☑	8.0p☑		TO18	AØ
23	2N2792†	500m	250M§△	2.8m	§J	75	35	5.0	800m	10nØ	20Ø	20mØ	50 △	200u☑b	35 ☑	2.5 ☑	8.0p☑		TO18	AØ
24	2N3409*	500m	250M§△	2.9m	§S	60	30	5.0	500m	.01uØ	10Ø	1.0mØ	40 †△				8p☑	*	R131f	PA
25	2N3410*	500m	250M§△	2.9m	§S	60	30	5.0	500m	.01uØ	10Ø	1 0mØ	40 †△				8p☑	*	R131f	PA
26	2N3411*	500m	250M§△	2.9m	§S	60	30	5.0	500m	.01uØ	10Ø	1.0mØ	40 †△				8p☑	*	R131f	PA
27	2N3737†	500m	250M§△	2.9m	§S	75	50	5.0	1.5	.20u#Ø	1.0Ø	10mØ	35 †△				9p☑		TO46	AØ
28	JAN2N3737†	500m	250M§△	2.8m	§J	75	50 *	5.0	1.5	250mØ	1.0Ø	500mØ	40 †△#				9.0p☑		TO46	AØ
29	2N4961†	500m	250M§△	4.5m	§J	80	80	6.5	1.0	10nØ	10Ø	1.0mØ	60 †△				15p$		TO39	AØ
30	2N4963†	500m	250M§△	2.8m	§J	80	80	6.5	1.0	10nØ	10Ø	1.0mØ	60 †△				15p$		TO18	AØ
31	2N5417§	500m	250M§△	3.3m	§S	40	35	3.0	500m	.01uØ	10Ø	1.0mØ	35 †△				8p$	△	TO39	AØ
32	JAN2N5581†	500m	250M§△	2.2m	§J	75	50	6.0	800m	10nØ	10Ø	1.0 Ø	30 △				8.0p☑		TO46	AØ
33	JAN2N5582†	500m	250M§△	2.2m	§J	75	50	6.0	800m	10nØ	10Ø	1.0 Ø	50 △				8.0p☑		TO46	AØ
34	40577	500m	250M§△	357u	§J		60	4.0	500m	.01uØ	5.0Ø	100mØ	50 †#△		50		6p☑		TO5	AØ
35#	BC549C	500m	250M§	4.0m	$J	30	20	5.0	100m	5.0ut☑	5.0Ø	2.0mØ	800 †☑	60u	8.7k	3.0	2.5p$	PEØ	R189	A
36#	BC550C	500m	250M§	4 0m	$J	50	45 *	5.0	100m	15nØ	5.0Ø	2.0mØ	600	60u	8.7k	3.0	2.5p$	PEØ	R183	F
37#	BCX58	500m	250M§	4.0m	$J		32		200m			2.0mØ	120 †△					PEΔ	R221a	F
38#	BCX59	500m	250M§	4.0m	$J		45		200m			2.0mØ	120 †△					PEΔ	R221a	F
39#	BFX94	500m	250M△§	3.3m	§J	60	30	5.0	800m	.01uØ	10Ø	150mØ	40 †△#				8p☑	PE	TO18	AØ
40#	BFX95	500m	250M△§	3.3m	§J	60	30	5.0	800m	.01uØ	10Ø	150mØ	100 †△#				8p☑	PE	TO18	AØ
41#	BSW82	500m	250M§	3.3m	§J	40	25	5.0	500m#	100nØ	10Ø	150mØ	40 †△#				8.0p☑	PE	TO18	AØ
42#	BSW83	500m	250M§	3.3m	§J	40	25	5.0	500m#	100nØ	10Ø	150mØ	100 †△#				8.0p☑	PE	TO18	AØ
43#	BSW84	500m	250M§	3.3m	§J	75	40	5.0	500m#	10nØ	10Ø	150mØ	40 †△#				8.0p☑	PE	TO18	AØ
44#	BSW85	500m	250M§	3.3m	§J	75	40	5.0	500m#	10nØ	10Ø	150mØ	100 †△#				8.0p☑	PE	TO18	AØ
45▼	HSE218-RT	500m	250M§△	4.0m	$J	75	40	6.0		100nØ	10Ø	150mØ	50 †△						TO18	A
46▼	HSE220-RT	500m	250M§△	4.0m	$J	75	40	6.0		100nØ	10Ø	150mØ	150 †△						TO18	A
47▼	HSE307-RT	500m	250M§△	5.0m	♦J	60	30	5.0		10uØ	1.0Ø	1.0mØ	70 †△						R124d	A
48	MM2613†	500m	250M§△	2.8m	§J	60	40 §	5.0		50n	10Ø	150mØ	40 †△				6.0p	EΔ	TO18	A
49	MM2711†	500m	250M§△	2.8m	§J	60	30 §	5.0		50n	10Ø	150mØ	100 †△				6.0p	EΔ	TO18	A
50#	MPS2222K†	500m	250M§△	3.3m	§A	60	30	5.0	800m	10nØ	10Ø	1.0mØ	50 †△				8.0p☑	PL	X167	A
51#	MPS2222L†	500m	250M§△	3.3m	§A	60	30	5.0	800m	10nØ	10Ø	1.0mØ	50 †△				8.0p☑	PL	X168	A
52#	MPS2222M†	500m	250M§△	3.3m	§A	60	30	5.0	800m	10nØ	10Ø	1.0mØ	50 †△				8.0p☑	PL	X169	A
53#	MPS2713K†	500m	250M§	3.3m	§A	18	18	5.0	200m	500n	4.5Ø	2.0mØ	30 △		3.0k		2.5p	PL	X167	A
54#	MPS2713L†	500m	250M§	3.3m	§A	18	18	5.0	200m	500n	4.5Ø	2.0mØ	30 △		3.0k		2.5p	PL	X168	A
55#	MPS2713M†	500m	250M§	3.3m	§A	18	18	5 0	200m	500n	4.5Ø	2.0mØ	30 △		3.0k		2.5p	PL	X169	A
56#	MPS2714K†	500m	250M§	3.3m	§A	18	18	5.0	200m	500n	4.5Ø	2.0mØ	80 △		3.0k		2.5p	PL	X167	A
57#	MPS2714L†	500m	250M§	3.3m	§A	18	18	5.0	200m	500n	4.5Ø	2.0mØ	80 △		3.0k		2.5p	PL	X169	A
58	TN3903	500m	250M§△		§J	60	40	6.0		50n#		10mØ	50 †△				6.0p	PE	TO18	A
59	UPI2222P	500m	250M§△	3.3m	§J	60	30	5.0	800m	10n	10Ø	1.0mØ	50 △†				8.0p☑		TO106	A
60#	ZTX360†	500m	250M§△	3.3m	§A	60	40	5.0	1.0 #	500nØ	1.0Ø	500mØ	25 †△				5.7p	PL	X59	F
61#	2SC30	500m	280M§		§J	60	30	5.0	80m	.10u	10Ø	10m	45				4.0p	PE	TO5	
62#	2SD467	500m	280M§	4.0m	$J	25	20	5.0	700m	1 0uØ	1.0Ø	150mØ	60 †△				12p	E	TO92	B
63	2N2222A†	500m	300M§△	3.3m	§J	75	40	6 0	800m	.01uØ	10Ø	1.0mØ	50 △	35u☑	8.0k☑	8 ☑	8p☑	Ø	TO18	AØ
64	2N3736†	500m	300M§△	2.9m	§S	50	30	5 0	1.5	.20u#Ø	1.0Ø	10mØ	35 †△				9p☑		TO46	AØ
65#	2SC238	500m	300M§	4.0m	$J	30		3.5	100m	.10uØ	6.0Ø	1.0m	80				5.0p	PL	TO5	
66#	2SC1959	500m	300M§		$J	35	30	5.0	400m	100nØ	1.0Ø	100mØ	240 †☑				7.0p	E	TO92	B
67#	BC546	500m	300M§	4.0m	$J	80	65	6.0	100m	15nØ	5.0Ø	2.0mØ	125 △				2.5p$	PE	R189	A
68#	BC546A	500m	300M§	4.0m	$J	80	65	6.0	100m	15nØ	5.0Ø	2 0mØ	220	18u	2.7k	1.5	2.5p$	PE	R189a	F
69#	BC546B	500m	300M§	4.0m	$J	80	65	6.0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PE	R189a	F
70#	BC546VI	500m	300M§	4.0m	$J	80	65	6.0	100m	15n	5.0Ø	2.0mØ	110 †	18u	2.7k	1.5	2.5p$	PE	TO92	A
71#	BC547	500m	300M§	4.0m	$J	50	45	6.0	100m	15nØ	5.0Ø	2.0mØ	125 △				2.5p$	PE	R189	A
72#	BC547A	500m	300M§	4.0m	$J	50	45	6.0	100m	15nØ	5.0Ø	2 0mØ	220	18u	2.7k	1.5	2.5p$	PE	R189a	A
73#	BC547B	500m	300M§	4.0m	$J	50	45	6.0	100m	5.0ut☑	5.0Ø	2.0mØ	450 †☑	30u	4.5k	2.0	2.5p$	PE	R189	A
74#	BC547C	500m	300M§	4.0m	$J	50	45	6.0	100m	15nØ	5.0Ø	2.0mØ	600	60u	8.7k	3.0	2.5p$	PE	R189a	A
75#	BC547VI	500m	300M§	4.0m	$J	50	45	6.0	100m	15u	5.0Ø	2.0mØ	110 †	18u	2.7k	1.5	2.5p$	PE	TO92	A
76#	BC548	500m	300M§	4.0m	$J	30	30	5.0	100m	15n	5.0Ø	2 0mØ	125 △				2.5p$	PE	R189	A
77#	BC548A	500m	300M§	4.0m	$J	30	20	5.0	100m	5 0ut☑	5.0Ø	2.0mØ	220 †☑	18u	2 7k	1 5	2.5p$	PE	R189	A
78#	BC548B	500m	300M§	4.0m	$J	30	30	5.0	100m	15n	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PE	R189a	A
79#	BC548C	500m	300M§	4.0m	$J	30	20	5.0	100m	5.0ut☑	5.0Ø	2.0mØ	800 †☑	60u	8.7k	3.0	2.5p$	PE	R189	A
80#	BC548VI	500m	300M§	4.0m	$J	30	30	5.0	100m	15n	5.0Ø	2.0mØ	110 †	18u	2.7k	1.5	2.5p$	PE	TO92	A
81#	BC549B	500m	300M§	4.0m	$J	30	20	5.0	100m	5.0ut☑	5.0Ø	2.0mØ	450 †☑	30u	4.5k	2.0	2.5p$	PEØ	R189	A
82#	BC550	500m	300M§	4.0m	$J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	240 △				2.5p$	PEØ	R189	A
83#	BC550B	500m	300M§	4.0m	$J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PEØ	R189	A
84	FTR118*	500mØ	300M§△	4.0mØ	§J	20	20	3.0	25m	50n	10Ø	2.0mØ	20 †△				300f$☑	DPL	TO92	E
85	FTR158*	500mØ	300M§△	4.0mØ	$J	20	20	3.0	25m	50n	10Ø	4.0mØ	30 †△				400f$☑	DPL	TO92	E
86#	MPS2222AK†	500m	300M§△	3.3m	§A	75	40	6.0	800m	10nØ	10Ø	1.0mØ	50 △	1.0u	2.0k	8.0 ☑	8.0p☑	PL	X167	A
87#	MPS2222AL†	500m	300M§△	3.3m	§A	75	40	6.0	800m	10nØ	10Ø	1.0mØ	50 △	1.0u	2.0k	8.0 ☑	8.0p☑	PL	X168	A
88#	MPS2222AM†	500m	300M§△	3.3m	§A	75	40	6.0	800m	10nØ	10Ø	1.0mØ	50 △	1.0u	2.0k	8.0 ☑	8.0p☑	PL	X169	A
89▼	MPSH19△	500m	300M§△	4.0m	§J	30	25	3.0		100nØ	10Ø	4.0mØ	45 †△				650f$☑	DPL	TO92	C
90▼	MPSH32△	500m	300M§△	4.0m	§J	40	30	4.0		50nØ	5.0Ø	4.0mØ	27 †△				220f$☑	DPLØ	TO92	C
91♦#	PE107B	500m	300M§△	4.0m	$J	50	45	4.0	100m	200nØ	5.0Ø	2.0mØ	450 †☑				3.0p☑	PE	R222	F
92♦#	PE254A	500m	300M§	4.0m	$J	30	30 Ø$	5.0		200nØ	10Ø	1.0mØ	200 †△*				750ft	PE	R222	E
93♦#	PE254B	500m	300M§	4.0m	§J	30	30 Ø$	5.0		200nØ	10Ø	1.0mØ	120 †△*				750ft	PE	R222	E
94♦#	PE254C	500m	300M§	4.0m	$J	30	30 Ø$	5 0		200nØ	10Ø	1.0mØ	60 †△*				750ft	PE	R222	E
95	PTC101-RT	500m	300M§			70	35	6.0	100m	50n	10Ø	150mØ	150 †						TO105	a
96	SE8012	500m	300M§△	5.0m	♦J	100	60 *☑	6 0	500m	.50u§	1.0Ø	100mØ	40 †#△				9p$☑	DPE	TO105	A
97	SK3046-RT	500m	300M§			60	30	2.0	250m				50 †					D	TO39	AØ
98#	TBC546	500m	300M§		$J	80	65	6.0	100m	100nØ	5.0Ø	2.0mØ	800 †☑				3.5p	E	TO92	
99#	TBC547	500m	300M§		$J	50	45	6.0	100m	100nØ	5.0Ø	2.0mØ	800 †☑				3.5p	E	TO92	
100#	TBC548	500m	300M§		$J	30	30	5 0	100m	100n	5.0Ø	2.0mØ	800 †☑				3.5p	E	TO92	
101#	TBC549	500m	300M§		$J	30	30	5.0	100m	100n	5.0Ø	2.0mØ	800 †☑				3.5p	E	TO92	
102#	TBC550	500m	300M§		$J	50	45	5.0	100m	100nØ	5.0Ø	2.0mØ	800 †☑				3.5p	E	TO92	
103	TN3904	500m	300M§△		§J	60	40	6 0		50n#		10mØ	100 †△				5.0p	PE	TO18	A
104	UPI2222B	500m	300M	3.3m	#J	60	40	6.0	800m	14mØ	10Ø	1.0mØ	50	3.5	8.0	8.0	3.0p	Ø	TO18	AØ
105#	2SC285	500m	320M§	4.0m	§J	50			200m	.10uØ	10Ø	10m	60				3.5p	PE	TO5	
106#	2SC285A	500m	320M§	4.0m	§J	50			200m	.10uØ	10Ø	10m	60				3.5p	PE	TO5	
107	2N6010†	500m	330M§△	4.0m	§J	50	40	5.0	800m	10nØ	10Ø	1.0m	65 △	90u☑	12k☑		10p$☑	Ø	R203a	A
108	2N6014†	500m	330M§△	4.0m	§J	70	60	5.0	800m	10nØ	10Ø	1.0m	65 △	90u☑	12k☑		10p$☑	Ø	R203a	A
109	2N6000†	500m	350M§△	3.3m	♦J	35	25	5.0	500m	10nØ	10Ø	1.0m	70 △	80u☑	10k☑		6.0p$☑	Ø	R203a	A
110#	2SC52†	500m	350M§	4.0m	§J	40		5.0	100m	30nØ	6.0Ø	1.0mØ	50	100nb	28	1.5	4.0p	PLΔ	TO5	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T A M B MAX	E P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1#	2SC310	570m	120M§	4.5m	§J		140	100	5.0	500m	10nØ	10Ø	150mØ	65 †#				6.0p	PE	TO39 AØ
2#	2SC306	570m	240M§	4.5m	§J		50	30	5 0	500m	100nØ	10Ø	150mØ	85 †#				10p	PE	TO39 AØ
3#	2SC307	570m	250M§	4.5m	§J		80	40	5.0	500m	10nØ	10Ø	150mØ	85 †#				10p	PE	TO39 AØ
4	MD1129*	575m	250M§	3.2m	§J		60	30	5.0	500m	10nØ	10Ø	10uØ	60 †Δ#				8.0pØ	AN	R131b PA
5	MD2218*	575m	250M§	3 2m	§J		60	30	5 0	500m	20n#	10Ø	100nØ	50 †#				3.5p	ANΔ	R131c PA
6	MD2218A*	575m	250M§	3 2m	§J		60	30	5 0	500m	15n#	10Ø	100nØ	50 †#				3.5p	ANΔ	R131c PA
7	MD2219*	575m	250M§	3.2m	§J		60	30	5.0	500m	20n#	10Ø	100nØ	45 †#				3.5p	ANΔ	R131c PA
8	MD2219A*	575m	250M§	3.2m	§J		60	30	5.0	500m	15n#	10Ø	100nØ	45 †#				3 5p	ANΔ	R131c PA
9	MD3409*	575m	250M§	3.2m	§J		60	30	5.0	500m	10nØ	10Ø	100uØ	50 †#				3 5p	AN	TO99 PA
10	MD3410*	575m	250M§	3.2m	§J		60	30	5 0	500m	10nØ	10Ø	100uØ	50 †#				3.5p	AN	TO99 PA
11	MD7000*	575m	250M§	3.2m	§J		50	30	5.0	500m	100nØ	10Ø	1 0mØ	60 †#				3.5p	AN	TO99 PA
12	MD7002	575m	260M§	3 2m	§J		50	40	5.0	30m	100nØ	10Ø	100uØ	130 †#				2.6p	AN*	R131c PA
13	MD7002A*	575m	260M§	3.2m	§J		50	40	5.0	30m	100nØ	10Ø	100uØ	130 †#				2.6p	AN	R131c PA
14	MD7002B*	575m	260M§	3.2m	§J		50	40	5.0	30m	100nØ	10Ø	100uØ	130 †#				2.6p	AN	R131c PA
15	MD8001*	575m	260M§	3 2m	§J			40 *		30m	50n	10Ø	1.0mØ	200 †				2.6p	AN*	R131f PA
16	MD8002*	575m	260M§	3.2m	§J			50 *		30m	50n	10Ø	1.0mØ	200 †				2.6p	AN*	R131f PA
17	MD8003*	575m	260M§	3.2m	§J			60 *		30m	50n	10Ø	1.0mØ	200 †				2.6p	AN*	R131f PA
18	MD7007	575m	600M§	3.2m	§J		50	40	5.0	200m	100nØ	10Ø	100uØ	110 †#				4.0p	AN*	R131c PA
19	MD7007A*	575m	600M§	3.2m	§J		50	40	5 0	200m	100nØ	10Ø	100uØ	110 †#				4.0p	AN	R131c PA
20	MD7007B*	575m	600M§	3.2m	§J		50	40	5.0	200m	100nØ	10Ø	100uØ	110 †#				4.0p	AN	R131c PA
21	2N4270	580mØ		3.3m	§S		200	140	15	30m	1.0uØ	10Ø	10mØ	200 t☑				5p☑		TO5 A
22	2N6375†	580m	300M§Δ	3.3m	§S		75	40	6.0	1.5	200nØ	1 0Ø	10mØ	60 †Δ				10p☑		TO18 AØ
23♦#	2SC1803*	580m	2.7G§	3.3m	§J		30	18	3 0	130m	100nØ	5.0Ø	50mØ	100 †				1.0p	E	W116 S
24♦#	2SC1949*	580m	2 7G§	3 3m	§J		30	18	3.0	130m	100nØ	5.0Ø	50mØ	100 †				1.0p	E	W116 S
25♦#	2SC1560	580m	4 5G§	3.3m	§J		25	12	3.0	70m	1.0uØ	10	20m	100 †				600f	E	W116 S
26#	V021	580m	4 5G§	3.3m	§J		25	12	3 0	70m	1.0uØ	10Ø	20mØ	80 †				600f$	E	W12 S
27	2N545	600m$		5.5m	§S		60	60	6.0	800m	15u	6.0Ø	500mØ	15 †Δ				100p☑		TO5 AØ
28	JAN2N545†	600m$		7.6m	§S		60	60	10	500m	25u	6.0Ø	500mØ	15 †Δ				100p☑		TO5 AØ
29	2N546†	600m$		5.6m	§S		30	30	6.0	800m	15u	6 0Ø	500mØ	15 †Δ				100p☑		TO5 AØ
30	2N1081	600m		5.9m	§S		40	40	10	750m	15u	7.0Ø	500mØ	20 Δ				100p☑	Δ	TO5
31	2N1564	600m		4 0m	§S		80	60	5 0	50m	1.0uØ	5.0Ø	5.0m	20 Δ		1.2k		10p☑		TO5 AØ
32	2N1565	600m		4 0m	§S		80	60	5 0	50m	1.0uØ	5.0Ø	5.0m	40 Δ		1 5k		10p☑		TO5 AØ
33	2N1566	600m		4.0m	§S		80	60	5.0	50m	1.0uØ	5.0Ø	5.0m	80 Δ		1.8k		10p☑		TO5 AØ
34	2N1572	600m		4.0m	§S		125	80	5.0	50m	1 0uØ	5.0Ø	5.0m	20 Δ		1.2k		10p☑		TO5 AØ
35	2N1573	600m		4.0m	§S		125	80	5.0	50m	1.0uØ	5.0Ø	5 0m	40 Δ		1.5k		10p☑		TO5 AØ
36	2N1574	600m		4.0m	§S		125	80	5 0	50m	1.0uØ	5 0Ø	5.0m	80 Δ		1.8k		10p☑		TO5 AØ
37	2N1990	600m		4.8m	§J		100		3.0	1	10u#	10Ø	30mØ	20 †Δ#						TO5 AØ
38	2N1990S	600m		4 7m	§S		100		3.0		1.0u#	50Ø	2 0mØ	25 Δ					PL	TO5 Ø
39	2N2309	600m		4 0m	§J		30	30	5.0	500m	5.0nØ	4.0Ø	200uØ	40 Δ				25p☑	Ø	TO5 AØ
40#	2SC906†	600m		4.0m	§J		50	30	7.0	500m	500nØ	4.0Ø	10mØ	160 †					PE	R215 AØ
41#	2SC1068	600m		4.8m	§J		25	20	3 0	150m	500nØ	10Ø	40mØ	100 †				2.0p	PE	TO39 A
42#	2SC1214	600mØ		6.0m	♦J		50	50	4.0	500m	500n	3.0Ø	10mØ	40 †Δ					PE	S8 B
43#	2SC1352†	600m		4 0m	§J		25	15	5 0	800m	400nØ	1.0Ø	500mØ	20 *					PEΔ	R216a AØ
44#	2SC1387	600m		4 8m	§J		25	20	3.0	150m	500nØ	10Ø	40mØ	100 †				2.5p	PE	TO39 A
45#	2SC1412	600m		4.8m	§J		45	40	3.0	150	500nØ	10Ø	40mØ	70 †				2.5p	PE	TO39 A
46▼#	2SD638	600m		5.4m	†J		30	25	7.0	1.0	100nØ	10Ø	10mØ	60 †Δ				6 0p		B37 D
47▼#	2SD639	600m		5 4m	†J		60	50	7.0	1 0	100nØ	10Ø	10mØ	60 †Δ				6.0p		B37 D
48	TI480	600m		6.0m	♦J		50	40		60m	2.0u	10	5.0m	9.0 Δ	1.0ub	12	2.0		G	TO11 A
49	TI481	600m		6.0m	♦J		80	70		60m	2.0u	10	5.0m	9.0 Δ	1.0ub	12	2.0		G	TO11 A
50	PN2484	600m	60 §Δ	4.8m	§J		60	60	6 0	50m	10nØ	5 0Ø	1.0mØ	150 Δ	40u☑	24k☑	8 0 ☑	6.0p☑	PL	TO92 A
51	PN2222A	600m	300 §Δ	4 8m	§J		75	40	6.0	800m	10nØ	10Ø	1.0mØ	50 †Δ	35u☑	8.0k☑	8.0 ☑	8.0p☑	PL	TO92 A
52	PN2369	600m	500	4.8m	§J		40	15	4.5	500m	400nØ	1 0Ø	10mØ	40 †Δ				4.0p☑	PL	TO92 AΔ
53	PN2369A	600m	500 §Δ	4.8m	§J		40	15	4 5	500m	400nØ	1.0Ø	10mØ	40 †Δ				4.0p☑	PL	TO92 AΔ
54#	DT1610†	600m	.50M	5 0mØ	♦S		25	15	4.0	250m	8.0u	6 0Ø	200mØ	10 †Δ						TO5
55	2N2858†	600m	1.0M§Δ	5.9m	§J		100	80	10	3		4.0Ø	1 Ø	20 †Δ					D	TO5 AØ
56	2N2859†	600m	1 0M§Δ	5 9m	§J		120	100	10	3		4.0Ø	1 Ø	20 †Δ					D	TO5 AØ
57#	DT1003†	600m	1.0M§	6.2m	♦A		200	200	5.0	300m	50u	6.0Ø	200mØ	36 t☑					D	TO5 Ø
58	TI496	600m	1.0M	5 9m	♦J		70	65 Ø	1 0	60m	2 0uØ	5.0Ø	3.0mØ	10 †Δ					G	TO11 A
59	2N1615	600m	2.0M§Δ	5.6m	§S		100	100	8.0	200m	2.0uØ	10Ø	5.0mØ	25 †Δ				100p☑		TO5 AØ
60	2N2038	600m$	2.0M§Δ	5.6m	§S		45	45	4.0	500m	15uØ	6.0Ø	200mØ	12 †Δ				100p☑		TO5 AØ
61	2N2039	600m$	2.0M§Δ	5 6m	§S		75	75	4 0	500m	15uØ	6.0Ø	200mØ	12 †Δ				100p☑		TO5 AØ
62	2N2040	600m$	2.0M§Δ	5 6m	§S		45	45	4.0	500m	15uØ	6.0Ø	200mØ	30 †Δ				100p☑		TO5 AØ
63	2N2041	600m$	2.0M§Δ	5.6m	§S		75	75	4.0	500m	15uØ	6.0Ø	200mØ	30 †Δ				100p☑		TO5 AØ
64	2N551	600m$	3.0M§Δ	5.6m	§S		60	60	6.0	200m	15u	6.0Ø	50mØ	20 †Δ				100p☑		TO5 AØ
65	2N552	600m$	3.0M§Δ	5.6m	§S		30	30	6.0	200m	15u	6.0Ø	50mØ	20 †Δ				100p☑		TO5 AØ
66	2N1055	600m$	3.0M§Δ	5.6m	§S		100	100	6.0	200m	15u	6.0	50mØ	20 †Δ		500 ☑		100p☑		TO5 AØ
67	2N547	600m$	4.0M§Δ	5.6m	§S		60	60	6.0	800m	15u	6.0Ø	500mØ	20 †Δ				100p☑		TO5 AØ
68	2N548	600m$	4.0M§Δ	5.6m	§S		30	30	6 0	800m	15u	6.0Ø	500mØ	20 †Δ				100p☑		TO5 AØ
69	2N549	600m$	4.0M§Δ	5.6m	§S		60	60	6.0	800m	15u	6.0Ø	200mØ	20 †Δ				100p☑		TO5 AØ
70	2N550	600m$	4.0M§Δ	5.6m	§S		30	30	6.0	800m	15u	6.0Ø	200mØ	20 †Δ				100p☑		TO5 AØ
71	2N1052	600m$	4.0M	3 4m	§J		180	180 Ø	6 0		10u	6.0Ø	200mØ	35 †				50p	ME	TO5 AØ
72	2N1053	600m$	4.0M	3.4m	§J		200	200 Ø	6.0		10u	6.0Ø	200mØ	35 †				50p	ME	TO5 AØ
73	2N1054	600m$	4.0M	3.4m	§J		125	115	6.0		5.0u	20	100m	12				50p	DΔ	TO5 AØ
74	2N1117	600m$	4.0M§Δ	5 6m	§S		60	60	6.0	800m	15u	6.0Ø	200mØ	40 †Δ				100p☑		TO5 AØ
75	2N2198	600m	4.0M§Δ	5.6m	§S		80	80	7.0	200m	15u	5.0Ø	100mØ	35 †Δ				120p☑		TO5 AØ
76#	N1X	600m	5.0M	4.0m			80	75 §	5.0	50m	1 0u	5.0Ø	2.0mØ	20					ME	TO5
77	2N1116	600m$	6.0M§Δ	5.6m	§S		60	60	6.0	800m	15u	6.0	500mØ	40 †Δ				100p☑		TO5 AØ
78#	BCY31A	600m	7.0M§	4.8m	§J		64	64	45	50m	50nØ	6.0Ø	1.0mØ	35	25u	1.4k	6.0	20p$	Δ	TO5 AØ
79#	BCY32A	600m	7.0M§	4.8m	§J		64	64	32	50m	50nØ	6.0Ø	1.0mØ	55	30u	1.7k	5.0	20p$	Δ	TO5 AØ
80#	BCY33A	600m	7.0M§	4.8m	§J		32	32	32	50m	50nØ	6.0Ø	1.0mØ	25	17u	1.1k	3.0	20p$	Δ	TO5 AØ
81#	BCY34A	600m	7.0M§	4.8m	§J		32	32	32	50m	50nØ	6.0Ø	1.0mØ	35	25u	1.4k	6.0	20p$	Δ	TO5 AØ
82▼	HSE150-RT	600m	10M§Δ	4.8m	§J		350	325	5.0		50uØ	10Ø	20mØ	30 †Δ						TO5 A
83▼	HSE151-RT	600m	10M§Δ	4.8m	§J		250	200	4.0		50uØ	10Ø	20mØ	30 †Δ						TO5 A
84#	2SC65	600m	20M§Δ	3.4m	§J		130	130 §	3.0	50m	1 5uØ	20Ø	5.0mØ	20				10pØ☑	ME	TO5
85	PN930Δ	600m	30M§Δ	4.8m	§J		45	45	5.0	30m	10n	5.0Ø	1.0mØ	150 Δ				8.0pØ☑	PL	TO92 A
86	2N3388†	600m	36M§Δ	4.0m	§A		125	100	6 0	2 5m	2.0uØ	1.5Ø	2 5mØ	60 †Δ				35p☑		TO5 AØ
87	2N3389†	600m	36M§Δ	4.0m	§A		195	160	6.0	7 0m	2.0uØ	1.5Ø	7.0mØ	60 †Δ				35p☑		TO5 AØ
88	2N1953	600m	40M§Δ	4.0m	§J		20	20 Ø	3 0	1	.70uØ	2.0	10mØ	15 †Δ				35p☑		TO5 AØ
89	2N1983	600m	40M§Δ	4.7m	§J		50	25	5.0	1.0	5.0uØ	5 0Ø	1.0mØ	70 Δ	1.0u☑b	30 ☑	7.0 ☑	45p☑		TO5 AØ
90	2N1984	600m	40M§Δ	4.7m	§J		50	25	5.0	1.0	5.0uØ	5.0Ø	1.0mØ	35 Δ	1.0u☑b	30 ☑	5 0 ☑	45p☑		TO5 AØ
91	2N1985	600m	40M§Δ	4.7m	§J		50	25	5 0	1 0	5 0uØ	5.0Ø	1 0mØ	15 Δ	1.5u☑b	30 ☑	5.0 ☑	45p☑		TO5 AØ
92	2N1986	600m	40M§Δ	5.0m	§J		50	25	5.0		5 0uØ	10Ø	150mØ	60 †#Δ				35p☑		TO5 AØ
93	2N1987	600m	40M§Δ	4.8m	§J		50	25	5 0		5.0uØ	10Ø	150mØ	20 †#Δ				35p☑		TO5 AØ
94	2N1988	600m	40M§Δ	4.7m	§J		100	45	5.0	1 0	5 0uØ	5.0Ø	1.0mØ	20 Δ	1.0u☑b	30 ☑	1.5 ☑	20p☑		TO5 AØ
95	2N1989	600m	40M§Δ	4.7m	J		100	45	5.0	1.0	5.0uØ	5.0Ø	1.0mØ	10 Δ	1.0u☑b	30 ☑	1.5 ☑	20p☑		TO5 AØ
96#	2N5073	600m	40M§Δ	4.0m	§S		180	120	6.0	400m	.01uØ	10Ø	6.0mØ	20 Δ				25p$		TO5 AØ
97#	BSS33	600m	40M§Δ	4.0m	§S		200	200	5.0	200m	10nØ	2.0	10m	120 ☑				25p☑	PE	TO5 AØ
98	PN3565	600m	40M§Δ	4.8m	§J		30	25	6.0	50m	50nØ	10Ø	1 0mØ	150 †Δ				4.0p☑	PL	TO92 A
99	PN3566	600m	40M§Δ	4 8m	§J		40	30	5.0	200m	50nØ	10Ø	2.0mØ	80 †Δ				25p☑	PL	TO92 A
100	TI482	600m	40M§Δ	5.0m	§J		20	20	5.0	500m	2.0u	10Ø	150mØ	20 †Δ				35p☑	PL	TO5 AØ
101	TI483	600m	40M§Δ	5.0m	§J		40	20	5.0	500m	2.0u	10Ø	150mØ	20 †Δ				35p☑	PL	TO5 AØ
102	TI484	600m	40M§Δ	5.0m	§J		40	20	5.0	500m	2.0uØ	10Ø	150mØ	40 †Δ				35p☑	PL	TO5 AØ
103	JAN2N696†	600m	50M§Δ	4.0m	§S		60	40 §	5.0		100u	10Ø	150mØ	20 †Δ#				25p☑		TO5 AØ
104♦	2N699	600m	50M§Δ	4.0m	§J		120	80 §	5.0		2.0uØ	5.0	1.0mØ	35 Δ	500n☑b	30 ☑	2.5 ☑	20p☑	Δ	TO5 AØ
105	2N1409	600m	50M§Δ	4.0m	§J		30	25 §	4.0		10u	10Ø	150mØ	15 †Δ				35p☑		TO5 AØ
106	2N1410	600m	50M§Δ	4.0m	§J		45	30 §	4 0		10u	10Ø	150mØ	30 †Δ				24p☑		TO5 AØ
107	2N1420	600m	50M§Δ	4.0m	§J		60	30 §	5.0	1 0	1.0uØ	10Ø	150mØ	100 †Δ				35p☑		TO5 A
108	2N1507	600m	50M§Δ	4.0m	§J		60	30 §	5 0	1	1 0u	10Ø	150mØ	150 †#				35p☑	PL	TO5 AØ
109	2N1972	600m	50M§Δ	4.0m	§J		60	30 §	5.0		1.0uØ	5.0Ø	1.0mØ	40 Δ	500n☑b	35 ☑	8.0 ☑	35p☑		TO5 AØ
110	2N2195	600m	50M§Δ	3 4m	§J		45	25	5.0	1	.10uØ	10Ø	150mØ	20 †Δ#				20p☑	Δ	TO5 AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	BF179C☑	600m*	150M§	4.5m	§J		250 Ø	5.0	50m	200nØ	10Ø	15mØ	20 †Δ				1.3p†	AN	TO39	A
2	BF233-2Δ	600m	150M§	4.8m	$J	30	30	4.0	50m	100nØ	10Ø	1.0mØ	40 †Δ				1.0p†	PL	TO92	C
3	BF233-3Δ	600m	150M§	4.8m	$J	30	30	4.0	50m	100nØ	10Ø	1.0mØ	60 †Δ				1.0p†	PL	TO92	C
4	PN5127	600m	150M§Δ	4.8m	$J	20	12	3.0	30m	50nØ	10Ø	2.0mØ	300 ☑				3.5p☑	PL	TO92	A
5#	2SC46†	600m	180M§		$J	60	50 §	5.0	300m	100nØ	6.0Ø	1.0mØ	50	100nb	28	800m	15p	ME	TO5	
6	2N2478†	600m	200M§Δ	4.0m	§A	120	40	5.0	500m	2.0uØ	1.5Ø	150mØ	30 †Δ				12p☑	PE	TO5	AØ
7	2N3426†	600m	200M§Δ	3.4m	§J	25	12	4.0	1	100u§	.50Ø	10mØ	20 #†Δ				25p☑		R179j	AØ
8#	2SC588	600m	200M§			30	20	5.0	100m	1.0uØ	10Ø	10m	100				5p☑	PE	TO5	
9#	2SC1346	600m	200M§	6.0m	♦J	30	25	5.0	500m	100nØ	10Ø	500mØ	90 †				6.0p	PE	R209	B
10#	2SC1347	600m	200M§	6.0m	♦J	60	50	5.0	500m	100nØ	10Ø	500mØ	90 †				6.0p	PE	R209	B
11▼#	2SD592	600m	200M§	5.4m	†J	30	25	5.0	1.5	100nØ	10Ø	500mØ	60 †Δ				10p		TO92	B
12#	BFY25	600m	200M§Δ	4.5m	§J	60	40	6.0	200m	.01uØ	10Ø	10mØ	30 †#Δ				3.8p	PL	TO5	AØ
13	HEP53-RT	600m♦	200M§		§J	35	30 §	4.0	600m$	50n$	30		85 †						TO92	A
14▼	HSE133-RT	600m	200M§Δ	4.8m	$J	35	30	4.0		50nØ	10Ø	150mØ	50 †Δ						TO5	A
15	PN3691	600m	200M§Δ	4.8m	$J	35	20	4.0	30m	50nØ	1.0Ø	10mØ	40 †Δ				3.5p☑	PL	TO92	A
16	PN3692	600m	200M§Δ	4.8m	$J	35	20	4.0	30m	50nØ	1.0Ø	10mØ	100 †Δ				3.5p☑	PL	TO92	A
17	PN3694	600m	200M§Δ	4.8m	$J	45	45	4.0	30m	50nØ	10Ø	10mØ	100 †Δ				6.0p☑	PL	TO92	A
18	PN5129	600m	200M§Δ	4.8m	$J	15	12	3.0	800m	50nØ	10Ø	50mØ	350 ☑				10p☑	PL	TO92	A
19	2N2476†	600m	250M§Δ	3.4m	§J	60	20	5.0		.20uØ	.40Ø	150mØ	20 †Δ				10p☑		TO5	AØ
20	2N2477†	600m	250M§Δ	3.4m	§J	60	20	5.0		.20uØ	.40Ø	150mØ	40 †Δ				10p☑		TO5	AØ
21	2N2958†	600m	250M§Δ	4.0m	§S	60	20	5.0	600m	25nØ	10Ø	150mØ	40 †Δ				8.0p☑		TO5	AØ
22	2N2959†	600m	250M§Δ	4.0m	§S	60	20	5.0	600m	25nØ	10Ø	150mØ	100 †Δ				8.0p☑		TO5	AØ
23	2N2960†	600m	250M§Δ	4.0m	§J	60	30	5.0	600m	25nØ	10Ø	.10mØ	35 †Δ				8p☑		TO5	AØ
24	2N2961†	600m	250M§Δ	4.0m	§J	60	30	5.0	600m	25nØ	10Ø	500mØ	30 †#Δ				8p☑		TO5	AØ
25#	2N4432	600m	250M§☑	4.0m	§S	50	30	6.0	200m	.01uØ	15	6.0m	115 ☑				10p☑		TO5	AØ
26#	2N4432A	600m	250M§	4.0m	§J	50	30	6.0	200m	10u	15Ø	6.0mØ	160 ☑	70u	3.5k☑		10p☑	PE	TO5	A
27	2N6502*	600m	250M§Δ	3.4m	§S	80	40	6.0	1.0	1.7uØ	1.0Ø	500mØ	10 †Δ				10p☑$	Δ	R131f	PA
28#	BSW49	600m	250M§Δ	4.8m	$S	30	25	5.0	500m	20u§	1.1Ø	500mØ	16 †Δ				10p☑	Δ	TO39	AØ
29▼	HSE134-RT	600m	250M§Δ	4.8m	$J	40	40	4.0		100nØ	10Ø	150mØ	50 †Δ						TO5	A
30▼	HSE135-RT	600m	250M§Δ	4.8m	$J	30	35	4.0		50nØ	10Ø	150mØ	100 †Δ						TO5	A
31	PN2221	600m	250M§Δ	4.8m	$J	60	30	5.0	800m	10n	10Ø	1.0mØ	25 Δ				8.0p☑	PL	TO92	A
32	PN2221A	600m	250M§Δ	4.8m	$J	75	40	6.0	800m	10nØ	10Ø	1.0mØ	30 Δ	15u☑	3.5k☑	5.0 ☑	8.0p☑	PL	TO92	A
33	PN2222	600m	250M§Δ	4.8m	$J	60	30	5.0	800m	10nØ	10Ø	1.0mØ	50 †Δ				8.0p☑	PL	TO92	A
34	PN3641	600m	250M§Δ	4.8m	$J	60	30	5.0	500m	50n§	10Ø	150mØ	40 †Δ				8.0p☑	PL	TO92	A
35	PN3642	600m	250M§Δ	4.8m	$J	60	45	5.0	500m	50n§	10Ø	150mØ	40 †Δ				8.0p☑	PL	TO92	A
36	PN3643	600m	250M§Δ	4.8m	$J	60	30	5.0	500m	50n§	10Ø	150mØ	100 †Δ				8.0p☑	PL	TO92	A
37#	TM1613	600m	250M§Δ	2.2m	§A	60	40 §	5.0	600m	.05uØ	10Ø	150mØ	40 †#Δ				8p☑	PE	TO5	
38#	TM1711	600m	250M§Δ	2.2m	§A	60	30 §	5.0	600m	.05uØ	10Ø	150mØ	100 †#Δ				8p☑	PE	TO5	
39#	ZT2476†	600m	250M§Δ	3.4m	§J	60	20	5.0		.20uØ	.40Ø	150mØ	20 †Δ				10p	PE	TO5	
40#	ZT2477†	600m	250M§Δ	3.4m	§J	60	20	5.0		.20uØ	.40Ø	150mØ	40 †Δ				10p	PE	TO5	
41	2N2320	600m	300M§	3.4m		30		5.0		1.0u	.40Ø	20m	40 †				5.0p		TO5	
42#	MA6101	600m	300M§	4.8m	§J	70	50	6.0		50nØ	10Ø	150mØ	40 †Δ				5.0p	PE	TO5	
43#	MA6102	600m	300M§	48m	§J	60	45	6.0		50nØ	10Ø	150mØ	100 †Δ#				5.0p	PE	TO5	
44♦#	2SC1303	600m	350M§Δ	4.0m	J§	40	20	4.0	500m#	1.0u	13Ø	100mØ	70 †				10p	PE	TO39	A
45	PN3646	600m	350M§Δ	4.8m	$J	40	15	5.0	200m	500n§	.40Ø	30mØ	30 †Δ				5.0p☑	PL	TO92	A
46	PN3564	600m	400M§Δ	4.8m	$J	30	15	4.0	100m	50nØ	10Ø	15mØ	20 †Δ				3.5p☑	PL	TO92	A
47	PN4274	600m	400M§Δ	4.8m	$J	30	12	4.5	500m	500nØ	1.0Ø	10mØ	120 ☑				4.0p☑	PL	TO92	A
48	PN4275	600m	400M§Δ	4.8m	$J	40	15	4.5	100m	10u†	1.0Ø	100mØ	18 †Δ				4.0p☑	PL	TO92	A
49#	SL301AE*	600m	400M§Δ	4.0m	§A	35	16	4.6	50m	1.0nØ	5.0Ø	100uØ	30 †Δ				2.0p☑		S17	QR
50#	SL301AT*	600m	400M§Δ	4.0m	§A	35	16	4.6	50m	1.0nØ	5.0Ø	100uØ	30 †Δ				2.0p☑		TO78	PD
51#	SL301BE*	600m	400M§Δ	4.0m	§A	30	12	4.6	50m	1.0nØ	5.0Ø	100uØ	10 †Δ				2.0p☑		S17	QR
52#	SL301BT*	600m	400M§Δ	4.0m	§A	30	12	4.6	50m	1.0nØ	5.0Ø	100uØ	10 †Δ				2.0p☑		TO78	PD
53#	SL301CE*	600m	400M§Δ	4.0m	§A	25	10	4.3	50m	1.0nØ	5.0Ø	1.0mØ	20 †Δ						S17	QR
54#	SL301CT*	600m	400M§Δ	4.0m	§A	25	10	4.3	50m	1.0nØ	5.0Ø	1.0mØ	20 †Δ						TO78	PD
55#	SL301EE*	600m	400M§Δ	4.0m	§A	30	12	4.6	50m	1.0nØ	5.0Ø	100uØ	20 †Δ				2.0p☑		S17	QR
56#	SL301ET*	600m	400M§Δ	4.0m	§A	30	12	4.6	50m	1.0nØ	5.0Ø	100uØ	20 †Δ				2.0p☑		TO78	PD
57	2N3303†	600m	450M§Δ	4.0m	§J	25	12	4.0	1	.30u	.50Ø	300mØ	60 #†				15p☑	PE	R179h	
58#	2SC998	600m	450M§		§J	40	40 §	4.0	400m	2.0uØ	5.0Ø	50mØ	50 †				10p☑	PE	TO39	A
59	2N3137	600m	500M§Δ	3.4m	§J	40	20	4.0	150m	50nØ	5.0Ø	50mØ	20 †Δ#				3.5p☑		TO39	AØ
60	2N5236§	600m	500M§Δ	3.4m	§J	40	20	4.0	150m	1.0u§	5.0Ø	50mØ	30 †#Δ				3p$☑		TO39	AØ
61#	2SC994	600m	500M§		§J	36	15	3.0	100m	1.0uØ	3.0Ø	100mØ	70 †				38p	PE	TO39	A
62▼#	2SC2188	600m	500M§	5.4m	†J	45	35	4.0	50m		10Ø		20 †Δ						B37	D
63	PN918	600m	600M§Δ	4.8m	$J	30	15	3.0	50m	10nØ	1.0Ø	3.0mØ	20 †Δ				1.7p☑	PL	TO92	A
64	PN3563	600m	600M§Δ	4.8m	$J	30	12	2.0	50m	50nØ	10Ø	8.0mØ	20 †Δ				1.7p☑	PL	TO92	A
65#	BFY63	600m	750M§	3.4m	§J	30	15	4.0		50nØ	5.0Ø	50mØ	70 †				2.8p	DPE	TO5	Ø
66	PN5179	600m	900M§Δ	4.8m	$J	20	12	2.5	25m	2.0nØ	1.0Ø	3.0mØ	250 ☑				1.0 $☑	PL	TO92	C
67#	2SC1638	600m	1.0G§Δ	4.0mØ	§J	40	20	3.0	300m	500n	10Ø	20mØ	100 †					PE	R176h	G
68#	2SC1164	600m	1.4G§		$J	40	35	2.0	300m	100n	10Ø	15mØ	15 †Δ				3.0p☑	EP	R176d	G
69#	2SC1199	600m	1.4G§		$J	50	35		300m	100nØ	10Ø	20mØ	80 †				3.5p☑	PE	TO39	
70♦#	2SC823	600m	1.5G§	4.8m	$J	30	19 §	3.0	60m	100nØ	10Ø	15mØ	30 †Δ				900f	PE	TO33	G
71	HP35828E	600m	6.0G	4.0m	§J	27	20	1.5	35m	100u	15Ø	15mØ	150 †☑						W26b	
72#	BCW90	610m		4.9m	$J	50	40	5.0	800m	30nØ	2.0Ø	150mØ	100 †Δ				12p☑	PE	R203a	A
73#	BCW91	610m		4.9m	$J	70	60	5.0	800m	30nØ	2.0Ø	150mØ	100 †Δ				12p☑	PE	R203a	A
74	BCW90A	610m	80M§	4.8m	$J	50	40	5.0	800m	30nØ	2.0Ø	2.0m	60 †Δ				10p	PEΔ	R203a	
75	BCW90B	610m	80M§	4.8m	$J	50	40	5.0	800m	30nØ	2.0Ø	2.0m	80 †Δ				10p	PEΔ	R203a	
76	BCW90C	610m	80M§	4.8m	$J	50	40	5.0	800m	30nØ	2.0Ø	2.0m	120 †Δ				10p	PEΔ	R203a	
77	BCW90KA	610m	80M§	4.8m	$J	50	40	5.0	800m	30nØ	2.0Ø	2.0m	60 †Δ				10p	PEΔ	R203a	
78	BCW90KB	610m	80M§	4.8m	$J	50	40	5.0	800m	30nØ	2.0Ø	2.0m	80 †Δ				10p	PEΔ	R203a	
79	BCW90KC	610m	80M§	4.8m	$J	50	40	5.0	800m	30nØ	2.0Ø	2.0m	120 †Δ				10p	PEΔ	R203a	
80	BCW91A	610m	80M§	4.8m	$J	70	60	5.0	800m	30nØ	2.0Ø	2.0m	60 †Δ				10p	PEΔ	R203a	
81	BCW91B	610m	80M§	4.8m	$J	70	60	5.0	800m	30nØ	2.0Ø	2.0m	80 †Δ				10p	PEΔ	R203a	
82	BCW91KA	610m	80M§	4.8m	$J	70	60	5.0	800m	30nØ	2.0Ø	2.0m	60 †Δ				10p	PEΔ	R203a	
83	BCW91KB	610m	80M§	4.8m	$J	70	60	5.0	800m	30nØ	2.0Ø	2.0m	80 †Δ				10p	PEΔ	R203a	
84	A5T3391	625m		5.0m	$S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 Δ				10p☑	PE	R203	A
85	A5T3391A	625m		5.0m	$S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 Δ				10p☑	PE	R203	A
86	A5T3392	625m		5.0m	$S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	150 Δ				10p☑	PE	R203	A
87	A5T5172	625m		5.0m	$S	25	25	5.0	100m	100nØ	10Ø	10mØ	100 †Δ				10p$☑	PE	R203	A
88	A7T3391	625m		5.0m	$S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 Δ				10p☑	PE	TO92	B
89	A7T3391A	625m		5.0m	$S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 Δ				10p☑	PE	TO92	B
90	A7T3392	625m		5.0m	$S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	150 Δ				10p☑	PE	TO92	B
91	A7T5172	625m		5.0m	$S	25	25	5.0	100m	100nØ	10Ø	10mØ	100 †Δ				10p$☑	PE	TO92	B
92	A8T3391	625m		5.0m	$S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 Δ				10p☑	PE	TO92	A
93	A8T3391A	625m		5.0m	$S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 Δ				10p☑	PE	TO92	A
94	A8T3392	625m		5.0m	$S	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	150 Δ				10p☑	PE	TO92	A
95	A8T3707	625m		5.0m	$S	30	30	6.0	30m	100nØ	5.0Ø	100uØ	100 Δ					PE	TO92	A
96	A8T3708	625m		5.0m	$S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	45 Δ					PE	TO92	A
97	A8T3709	625m		5.0m	$S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	45 Δ					PE	TO92	A
98	A8T3710	625m		5.0m	$S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	90 Δ					PE	TO92	A
99	A8T3711	625m		5.0m	$S	30	30	6.0	30m	100nØ	5.0Ø	1.0mØ	180 Δ					PE	TO92	A
100	A8T5172	625m		5.0m	$S	25	25	5.0	100m	10uØ	10Ø	10mØ	100 †Δ				10p$☑	PE	TO92	A
101#	BC232A	625m		5.0m	$S	40	30	5.0	400m	100nØ	2.0Ø	50mØ	100 †Δ#					PE†	TO92	B
102#	BC232B	625m		5.0m	$S	40	30	5.0	400m	100nØ	2.0Ø	50mØ	20 †Δ#					PE†	TO92	B
103	BC485	625m		5.0m	$J	45	45	5.0	1.0	100nØ	2.0Ø	100mØ	60 †Δ#				7.0p	AN	R210a	F
104	BC485-5	625m		5.0m	$J	45	45	5.0	1.0	100nØ	2.0Ø	100mØ	60 †Δ#				7.0p	AN	R207	A
105	BC487	625m		5.0m	$J	60	60	5.0	1.0	100nØ	2.0Ø	100mØ	60 †Δ#				7.0p	AN	R210a	F
106	BC487-5	625m		5.0m	$J	60	60	5.0	1.0	100nØ	2.0Ø	100mØ	60 †Δ#				7.0p	AN	R207	A
107	BC489	625m		5.0m	$J	80	80	5.0	1.0	100nØ	2.0Ø	100mØ	60 †Δ#				7.0p	AN	R210a	F
108	BC489-5	625m		5.0m	$J	80	80	5.0	1.0	100nØ	2.0Ø	100mØ	60 †Δ#				7.0p	AN	R207	A
109♦#	JE9013D	625m		5.0m	$J	40	20	5.0	500m	100nØ	1.0Ø	50mØ	64 †Δ*	15u	20k	60			R182b	A
110♦#	JE9013E	625m		5.0m	$J	40	20	5.0	500m	100nØ	1.0Ø	50mØ	78 †Δ*	15u	20k	6.0			TO92	A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1	BC487A18	625m	200M§	5.0m	$J	60	60	5.0	1.0	100nØ	2.0Ø	100mØ	160 †#				7.0p	AN	R204e	A	
2	BC487A	625m	200M§	5.0m	$J	60	60	5.0	1.0	100nØ	2.0Ø	100mØ	160 †#				7.0p	AN	R210a	F	
3	BC487B5	625m	200M§	5.0m	$J	60	60	5.0	1.0	100nØ	2.0Ø	100mØ	260 †#				7.0p	AN	R207	A	
4	BC487B18	625m	200M§	5.0m	$J	60	60	5.0	1.0	100nØ	2.0Ø	100mØ	260 †#				7.0p	AN	R204e	A	
5	BC487B	625m	200M§	5.0m	$J	60	60	5.0	1.0	100nØ	2.0Ø	100mØ	260 †#				7.0p	AN	R210a	F	
6	BC487L5	625m	200M§	5.0m	$J	60	60	5.0	1.0	100nØ	2.0Ø	100mØ	120 †#				7.0p	AN	R207	A	
7	BC487L18	625m	200M§	5.0m	$J	60	60	5.0	1.0	100nØ	2.0Ø	100mØ	120 †#				7.0p	AN	R204e	A	
8	BC487L	625m	200M§	5.0m	$J	60	60	5.0	1.0	100nØ	2.0Ø	100nØ	120 †#				7.0p	AN	R210a	F	
9	BC489-18	625m	200M§	5.0m	$J	80	80	5.0	1.0	100nØ	2.0Ø	100nØ	60 †Δ#				7.0p	AN	R204e	A	
10	BC489A5	625m	200M§	5.0m	$J	80	80	5.0	1.0	100nØ	2.0Ø	100mØ	160 †#				7.0p	AN	R207	A	
11	BC489A18	625m	200M§	5.0m	$J	80	80	5.0	1.0	100nØ	2.0Ø	100mØ	160 †#				7.0p	AN	R204e	A	
12	BC489A	625m	200M§	5.0m	$J	80	80	5.0	1.0	100nØ	2.0Ø	100mØ	160 †#				7.0p	AN	R210a	F	
13	BC489B5	625m	200M§	5.0m	$J	80	80	5.0	1.0	100nØ	2.0Ø	100mØ	260 †#				7.0p	AN	R207	A	
14	BC489B18	625m	200M§	5.0m	$J	80	80	5.0	1.0	100nØ	2.0Ø	100mØ	260 †#				7.0p	AN	R204e	A	
15	BC489B	625m	200M§	5.0m	$J	80	80	5.0	1.0	100nØ	2.0Ø	100mØ	260 †#				7.0p	AN	R210a	F	
16	BC489L5	625m	200M§	5.0m	$J	80	80	5.0	1.0	100nØ	2.0Ø	100mØ	120 †#				7.0p	AN	R207	A	
17	BC489L18	625m	200M§	5.0m	$J	80	80	5.0	1.0	100nØ	2.0Ø	100mØ	120 †#				7.0p	AN	R204e	A	
18	BC489L	625m	200M§	5.0m	$J	80	80	5.0	1.0	100nØ	2.0Ø	100nØ	120 †#				7.0p	AN	R210a	F	
19	BCX45†	625m	200M§	5.0m	$J	45	45	5.0	1.0	100nØ	2.0Ø	10mØ	120	58u	530	1.1	7.0p	AN	R210a	F	
20	BCX47†	625m	200M§	5.0m	$J	60	60	5.0	1.0	100nØ	2.0Ø	10mØ	120	58u	530	1.1	7.0p	AN	R210a	F	
21	BCX49†	625m	200M§	5.0m	$J	80	80	5.0	1.0	100nØ	2.0Ø	10mØ	120	58u	530	1.1	7.0p	AN	R210a	F	
22	MPS3904†	625m	200M§Δ	5.0m	$J	60	40	6.0	200m	50n#	1.0Ø	10mØ	100 †Δ	40uØ	10kØ	8.0 Ø	4.0pØ	ANØ	TO92	A	
23▼	MPS5132	625m	200M§Δ	5.0m	$J	20	20 Ø*	3.0		50nØ	15Ø	10mØ	2 0 Δ				3.5p$Ø		TO92	A	
24	PN5132	625m	200M§	5.0m	$S	20	20	3.0	30m	50n	10Ø	10mØ	20 Δ				3.5p$		TO92	A	
25	TIS94	625m	200M§Δ	5.0m	$S	60	40	6 0	200m	10u	5 0Ø	100uØ	250 Δ				4.0p$Ø	PE	TO92	B	
26	TIS95	625m	200M§Δ	5.0m	$S	80	60	6.0	200m	10u	5.0Ø	1.0mØ	100 Δ				4.0p$Ø	PE	TO92	B	
27	TIS96	625m	200M§Δ	5.0m	$S	80	65	6.0	200m	10u	5.0Ø	10mØ	60 Δ				4.0p$Ø	PE	TO92	B	
28	BC337Ø	625m	210M§	5.0m	$J	50	45	5.0	500m	100nØ	1.0Ø	100mØ	100 †Δ				4.0p	AN	R210a	F	
29	BC337-5	625m	210M§	5.0m	$J	50	45	5.0	500m	100nØ	1.0Ø	100mØ	100 †Δ				4.0p	AN	R207	A	
30	BC337-16Ø	625m	210M§	5.0m	$J	50	45	5.0	500m	100nØ	1.0Ø	100mØ	100 †Δ				4.0p	AN	R210a	F	
31	BC337-16-18	625m	210M§	5.0m	$J	50	45	5.0	500m	100nØ	1.0Ø	100mØ	100 †Δ				4.0p	AN	R204e	A	
32	BC337-16-5	625m	210M§	5.0m	$J	50	45	5.0	500m	100nØ	1.0Ø	100mØ	100 †Δ				4.0p	AN	R207	A	
33	BC337-18	625m	210M§	5.0m	$J	50	45	5.0	500m	100nØ	1.0Ø	100mØ	100 †Δ				4.0p	AN	R204e	A	
34	BC337-25Ø	625m	210M§	5.0m	$J	50	45	5.0	500m	100nØ	1.0Ø	100mØ	160 †Δ				4.0p	AN	R210a	F	
35	BC337-25-18	625m	210M§	5.0m	$J	50	45	5.0	500m	100nØ	1 0Ø	100mØ	160 †Δ				4.0p	AN	R204e	A	
36	BC337-25-5	625m	210M§	5.0m	$J	50	45	5.0	500m	100nØ	1.0Ø	100mØ	160 †Δ				4.0p	AN	R207	A	
37	BC338Ø	625m	210M§	5.0m	$J	30	25	5.0	500m	100nØ	1.0Ø	100mØ	100 †Δ				4.0p	AN	R210a	F	
38	BC338-5	625m	210M§	5.0m	$J	30	25	5.0	500m	100nØ	1.0Ø	100mØ	100 †Δ				4.0p	AN	R207	A	
39	BC338-16Ø	625m	210M§	5.0m	$J	30	25	5.0	500m	100nØ	1.0Ø	100mØ	100 †Δ				4.0p	AN	R210a	F	
40	BC338-16-18	625m	210M§	5.0m	$J	30	25	5.0	500m	100nØ	1.0Ø	100mØ	100 †Δ				4.0p	AN	R204e	A	
41	BC338-16-5	625m	210M§	5.0m	$J	30	25	5.0	500m	100nØ	1.0Ø	100mØ	100 †Δ				4.0p	AN	R207	A	
42	BC338-18	625m	210M§	5.0m	$J	30	25	5.0	500m	100nØ	1.0Ø	100mØ	100 †Δ				4.0p	AN	R204e	A	
43	BC338-25Ø	625m	210M§	5.0m	$J	30	25	5.0	500m	100nØ	1.0Ø	100mØ	160 †Δ				4.0p	AN	R210a	F	
44	BC338-25-18	625m	210M§	5.0m	$J	30	25	5 0	500m	100nØ	1.0Ø	100mØ	160 †Δ				4.0p	AN	R204e	A	
45	BC338-25-5	625m	210M§	5.0m	$J	30	25	5.0	500m	100nØ	1.0Ø	100mØ	160 †Δ				4.0p	AN	R207	A	
46	2N5845A†	625m	250M§Δ	5.0	$J	50	40 *	6.0	600m	500nØ	1.0Ø	10mØ	50 †Δ				9.0p$Ø		TO92	A	
47	A5T2222†	625m	250M§Δ	5.0m	$S	60	30	5.0	800m	10nØ	10Ø	100uØ	35 †Δ				8.0pØ	†	R203	A	
48	MPS2222†	625m	250M§Δ	5.0m	$J	60	30	5.0	600m	10nØ	10Ø	1.0mØ	50 Δ	35uØ	8.0kØ	8.0 Ø	8.0pØ	Ø	R211	A	
49▼	MPS5134†	625m	250M§Δ	5.0m	$J	20	10 Ø*	3.5	100m	10u†Ø	10Ø	10mØ	2.5 Δ				4.0p$Ø		TO92	A	
50	PN4140	625m	250M§	5.0m	$S	60	30	5.0	200m	50u#	10Ø	150mØ	120 †Ø				8.0pØ		TO92	A	
51	PN4141	625m	250M§	5.0m	$S	60	30	5.0	200m	50u#	10Ø	150mØ	300 †Ø				8.0pØ		TO92	A	
52	PN5134	625m	250M§	5.0m	$S	20	10	3.5	100m	400p	1.0Ø	10mØ	150 †#Ø				4.0p$		TO92	A	
53♦#	JE9014A	625m	270M§	5.0m	$J	50	45	5.0	100m	50n	5.0Ø	1.0mØ	60 †Δ*	20u	9.0k	7.5	3.7p		TO92	A	
54♦#	JE9014B	625m	270M§	5.0m	$J	50	45	5.0	100m	50n	5.0Ø	1.0mØ	100 †Δ*	20u	9.0k	7.5	3.7p		TO92	A	
55♦#	JE9014C	625m	270M§	5.0m	$J	50	45	5.0	100m	50n	5.0Ø	1.0mØ	200 †Δ*	20u	9.0k	7.5	3.7p		TO92	A	
56♦#	JE9014D	625m	270M§	5.0m	$J	50	45	5.0	100m	50n	5.0Ø	1.0mØ	400 †Δ*	20u	9.0k	7.5	3.7p		TO92	A	
57	A5T2222A†	625m	300M§Δ	5.0m	$S	75	40	6.0	800m	10nØ	10Ø	100uØ	35 Δ	35uØ	8.0k	8.0	8.0pØ	Ø	R203	A	
58▼#	BC546AØ	625m	300M§	5.0m	$J		80	6.0	100m	100nØ	5.0Ø	2.0mØ	220	15u	2.7k	2.7	3.7p$	E	R189b	A	
59▼#	BC546BØ	625m	300M§	5.0m	$J		80	6.0	100m	100nØ	5.0Ø	2.0mØ	330	27u	5.0k	4.8	3.7p$	E	R189b	A	
60▼#	BC547AØ	625m	300M§	5.0m	$J		50	6.0	100m	100nØ	5.0Ø	2.0mØ	220	15u	2.7k	2.7	3.7p$	E	R189b	A	
61▼#	BC547BØ	625m	300M§	5.0m	$J		50	6.0	100m	100nØ	5.0Ø	2.0mØ	330	27u	5.0k	4.8	3.7p$	E	R189b	A	
62▼#	BC547CØ	625m	300M§	5.0m	$J		50	6.0	100m	100nØ	5.0Ø	2.0mØ	600	37u	8.0k	7.0	3.7p$	E	R189b	A	
63▼#	BC548AØ	625m	300M§	5.0m	$J		30	5.0	100m	100n	5.0Ø	2.0mØ	220	15u	2.7k	2.7	3.7p$	E	R189b	A	
64▼#	BC548BØ	625m	300M§	5.0m	$J		30	5.0	100m	100n	5.0Ø	2.0mØ	330	27u	5.0k	4.8	3.7p$	E	R189b	A	
65▼#	BC548CØ	625m	300M§	5.0m	$J		30	5.0	100m	100n	5.0Ø	2.0mØ	600	37u	8.0k	7.0	3.7p$	E	R189b	A	
66▼#	BC549BØ	625m	300M§	5.0m	$J	30	30	5.0	100m	15n	5.0Ø	2 0mØ	330	28u	4.0k	4.5	3.7p$	E	R189b	A	
67▼#	BC549CØ	625m	300M§	5.0m	$J	30	30	5.0	100m	15n	5.0Ø	2.0mØ	600	37u	6.5k	7.0	3.7p$	E	R189b	A	
68▼#	BC550BØ	625m	300M§	5.0m	$J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	330	28u	4.0k	4.5	3.7p$	E	R189b	A	
69▼#	BC550CØ	625m	300M§	5.0m	$J	50	45	5.0	100m	15nØ	5.0Ø	2.0mØ	600	37u	6.5k	7.0	3.7p$	E	R189b	A	
70▼#	JE9100A	625m	300M§	5.0m	$J	60	60	7.0	100m	50n	10Ø	2.0mØ	50 †Δ*				1.6p		TO92	A	
71▼#	JE9100B	625m	300M§	5.0m	$J	60	60	7.0	100m	50n	10Ø	2.0mØ	85 †Δ*				1.6p		TO92	A	
72▼#	JE9100C	625m	300M§	5.0m	$J	60	60	7.0	100m	50n	10Ø	2.0mØ	100 †Δ*				1.6p		TO92	A	
73▼#	JE9100D	625m	300M§	5.0m	$J	60	60	7.0	100m	50n	10Ø	2.0mØ	125 †Δ*				1.6p		TO92	A	
74▼#	JE9100E	625m	300M§	5.0m	$J	60	60	7.0	100m	50n	10Ø	2.0mØ	150 †Δ*				1.6p		TO92	A	
75▼#	JE9100F	625m	300M§	5.0m	$J	60	60	7.0	100m	50n	10Ø	2.0mØ	180 †Δ*				1.6p		TO92	A	
76▼#	JE9100G	625m	300M§	5.0m	$J	60	60	7.0	100m	50n	10Ø	2.0mØ	240 †Δ*				1.6p		TO92	A	
77♦#	JE9101A†	625m	300M§	5.0m	$J	40	30	7.0	100m	50n	10Ø	2.0mØ	50 †Δ*				1.6p		TO92	A	
78♦#	JE9101B†	625m	300M§	5.0m	$J	40	30	7.0	100m	50n	10Ø	2.0mØ	100 †Δ*				1.6p		TO92	A	
79♦#	JE9101C†	625m	300M§	5.0m	$J	40	30	7.0	100m	50n	10Ø	2.0mØ	180 †Δ*				1.6p		TO92	A	
80♦#	JE9101D†	625m	300M§	5.0m	$J	40	30	7.0	100m	50n	10Ø	2.0mØ	350 †Δ*				1.6p		TO92	A	
81	MPS2222A†	625m	300M§Δ	5.0m	$J	75	40	6.0	600m	10nØ	10Ø	1.0mØ	75 Δ	200uØ	1.2kØ	4.0 Ø	8.0pØ	Ø	R211	A	
82	MPS3725†	625m	300M§Δ	5.0m	$J	70	50	6.0	1.0	500nØ	1.0Ø	10mØ	30 †Δ#				10pØ	AN†	TO92	A	
83	PN4013	625m	300M§	5.0m	$S	50	30	6.0	500m	1.7uØ	1.0Ø	100mØ	150 †Ø				12pØ		TO92	A	
84	PN4014	625m	300M§	5.0m	$S	80	50	6.0	500m	1.7uØ	1.0Ø	100mØ	150 †Ø				10pØ		TO92	A	
85	2N5772	625m	350M§Δ	5.0m	$J	40	15	5.0	200m	500n§	.40Ø	30mØ	30 †Δ#				5.0p$Ø		TO92	A	
86♦	MPSH20	625m	400M§Δ	5.0m	$J	40	30	4.0	100m	50nØ	10Ø	4.0mØ	25 †Δ				650f$Ø	E†	TO92	C	
87♦	MPSH24	625m	400M§Δ	5.0m	$J	40	30	4.0	100m	50nØ	10Ø	8.0mØ	30 †Δ				360f$Ø	E	TO92	C	
88	A6T5222	625m	450M§Δ	5.0m	$S	20	15	2.0	50m	100nØ	10Ø	4.0mØ	20 Δ				1.3p$Ø	PE	R203	A	
89	PN5130	625m	450M§	5.0m	$S	30	12	1.0	50m	50n	10Ø	8.0mØ	12 Δ				1.7p$		TO92	A	
90	2N5769†	625m	500M§Δ	5.0m	$S	40	40 Ø	4.5	200m	10u	1.0Ø	100mØ	20 †Δ#				4.0p$Ø		TO92	A	
91#	BF523	625m	500M§	5.0m	$S	50	45	4.5	50m	50nØ	10Ø	15mØ	50 †					PE	R203c	C	
92♦	MPSH34	625m	500M§Δ	5.0m	$J	45	45	4.0	100m	50nØ	15Ø	7 0mØ	40 †Δ				320f$Ø	E	TO92	C	
93	BF373	625m	720M§	5.0m	$J	45	45	4.0	100m	50nØ	10Ø	7.0mØ	40 †Δ				320ft Ø	E	R210b	C	
94	MPSH17	625m	800M§Δ	5.0m	$J	20	15	3.0		100nØ	10Ø	5.0mØ	30 Δ				300f$	Ø	TO92	C	
95▼	MPS6595†	625m	2.0G§	5.0m	$J	20	12 $	3.0		100nØ	5.0Ø	10mØ	110 †				900f$		R211	A	
96	HP35829E	630m	5.0G	6.0m	$J	27	20	1.5	35m	100u	15Ø	15mØ	150 †Ø						W36		
97#	2SC216	650m		4.3m	$J	50	50 §	5.0	300m	.10uØ	1.0Ø	50mØ	50 †					PLΔ	TO5		
98#	2SC218	650m		4.3m	$J	80	80 §	5.0	300m	10uØ	1.0Ø	50mØ	50 †					PLΔ	TO5		
99#	2SC227	650m		4.3m	$J	25	25 §	5.0	700m	1.0uØ	1.0Ø	100mØ	50 †					PEΔ	TO5		
100#	2SC231	650m		4.3m	$J	50	50 §	5.0	700m	1.0uØ	1.0Ø	150mØ	40 †					EMΔ	TO5		
101#	2SC232	650m		4.3m	$J	25	25 §	5.0	700m	1.0uØ	1.0Ø	150mØ	40 †					EMΔ	TO5		
102#	2SC233	650m		4.3m	$J	80	80 §	5.0	700m	1.0uØ	1.0Ø	150mØ	40 †					EMΔ	TO5		
103#	2SC479H†	650mØ		4.3m	$J	60	40	5.0	600m	1.0u	1.0Ø	100mØ	40 †Δ				20pØ	PE	TO39	AØ	
104#	2SC564†	650m		4.3m	$J	50	50 §	5.0	500m	1.0uØ	1.0Ø	150mØ	50 †					PE	TO39	A	
105#	2SC1353†	650m		4.3m	$J	90	70	5.0	700m	1.0uØ	1.0Ø	350mØ	30 †					PE	TO39	A	
106♦#	2SC1360	650m	500M§	5.9m	TJ	50	45	4.0	50m	100nØ	10	10m	100 Øt				900ft	PE	R182	B	
107♦#	2SC824	650m	1.3G§	5.2m	$J	50	25	3.0	120m	100nØ	10Ø	30mØ	20 †Δ				2.2p	PE	TO33	G	
108▼#	BC337Δ	675m	100M§	5.4m	$J		45	5.0	800m	100nØ	1.0Ø	100mØ	200 †				11p$	E	R189b	A	
109▼#	BC337-16Δ	675m	100M§	5.4m	$J		45	5.0	800m	100nØ	1.0Ø	100mØ	160 †				11p$	E	R189b	A	
110▼#	BC337-25Δ	675m	100M§	5.4m	$J		45	5.0	800m	100nØ	1.0Ø	100mØ	250 †				11p$	E	R189b	A	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1#	2SC353	750m	170M§		§J		100	60	5.0	100m	.20uØ	3.0Ø	1.0mØ	90 †				3.0p	PE	TO5	
2#	2SC353A	750m	170M§	5.0m	§J		100	60	5.0	100m	.20uØ	3.0Ø	1.0mØ	90 †				4.5pØ	D	TO5	
3#	2SC112†	750m	180M	8.3m	§J							2.0Ø	200m	35 △†				7.0p		TO5	
4#	2SD400	750m	180M§		♦		25	25	5.0	1.0	1.0uØ	2.0	50m	60 †				25p	PE	R182a	B
5#	2SC31	750m	200M§		§J		60	25	5.0	200m	.10u	10Ø	10m	35				4.0p	PE	TO5	
6#	2SC456	750m	200M§	6.3m	§J		50	50 Ø	1.5	600m#	1.0uØ	6.0Ø	80m	20 †				10p	PE	TO5	AØ
7#	2SC507	750m	200M§		§J		170	120 §	5.0	80m	1.0uØ	5.0Ø	10mØ	70 †				5.0pØ	DPL	TO39	A
8#	2SC589	750m	200M§		§J		165	150	5.0	80m	2.0uØ	20Ø	3.0m	40				4pØ	D	TO5	
9#	2SC594	750m	200M§		§J		60	30	5.0	200m	.10uØ	10Ø	10m	60				4.0p	PE	TO5	AØ
10#	2SC708	750m	200M§				60	80	4.0	1		4.0Ø	50mØ	35 †△						TO39	
11♦#	2SC1885	750m	200M§	6.8m	†J		150	150	5.0	100m#	1.0uØ	5.0Ø	10mØ	150 †				3.0pØ	PE	R182a	B
12	A5T6461	750m	200M§	6.0m	$S		300	300	7.0	100m	50n	10Ø	20mØ	120 †Ø				3.5p$	PE	R203	A
13	A5T6462	750m	200M§	6.0m	$S		300	300	7.0	100m	50n	10Ø	20mØ	300 †Ø				3.5p$	PE	R203	A
14	A5T6463	750m	200M§	6.0m	$S		250	250	6.0	100m	50n	10Ø	20mØ	120 †Ø				3.5p$	PE	R203	A
15	A5T6464	750m	200M§	6.0m	$S		250	250	6.0	100m	50n	10Ø	20mØ	300 †Ø				3.5p$	PE	R203	A
16#	2SC111	750m	240M				50		5.0	300m	10u	2.0	200m	50				6.0p		TO5	
17#	2SC32	750m	250M§		§J		60	25	5.0	200m	.10u	10Ø	10m	60				4.0p	PE	TO5	
18#	2SC526	750m	250M§	5.0m	§J		165	150	5.0	55m	2.0uØ	20	45m	20 †△				3.5p†	EM	TO5	AØ
19#	2SC1217†	750m	250M§	5.0m	§J		150	150	5.0	300m	100nØ	10Ø	50mØ	70 †				6.0pØ	E	TO39	AØ
20#	2SC1811	750m	250M§	8.0m	♦J		240	150 $	5.0	100m	200nØ	5.0Ø	3.0mØ	150 †				2.8pØ	E	R195	B
21♦#	2SC1957	750m	250M§	6.0m	$J		75	40	4.0	1.0	1.0uØ	10Ø	500mØ	90 †				14p	E	B16m	BØ
22#	2SC1218†	750m	300M§△	5.0m	§J		80	80	5.0	500m	100nØ	10Ø	50mØ	80 †				6.0pØ	E	TO39	AØ
23♦#	2SC1973	750mØ	300M§△	5.0m	§J		55	45 §	4.0	800m#	1.0uØ	5.0Ø	100mØ	20 †△				6.0p	PE	R182a	B
24♥#	2SC1976	750mØ	700M§	6.8m	†J		36	18	4.0	500m#	1.0uØ	13Ø	100mØ	70 †				6.0p		R182a	B
25#	2SC652	750m	800M§△	5.9m	§J		40	20	3.0	300m	.10uØ	10Ø	100mØ	20 †#△				2.5p	PE	TO5	A
26#	2SC651	750m	1.1G§		§J		45	22	4.0	300m	100nØ	10Ø	100mØ	80				3.5pØ	PE	TO5	
27▼	MA42007-511*	750mØ	2.2G§	5.0mØ	§J		20		3.0	125m	10nØ	10Ø	5.0mØ	20 †△					PL	W21b	R
28▼	MA42008-511*	750mØ	2.2G§	5.0mØ	§J		20		3.0	125m	10nØ	10Ø	5.0mØ	20 †△					PL	W21b	R
29	KJ6001	750mØ	3.5G§	4.0m	§J		20		3.0	100m	10nØ	10Ø	5.0mØ	20 △				1.7p$Ø	Ø	W21	R
30	KJ6007	750mØ	3.5G§	4.0m	§J		20		3.0	125m	10nØ	10Ø	5.0mØ	20 △				1.7p$Ø	Ø	W21	R
31#	BSW39-6†	790m	50M§△	4.5m	§J		100	80 *	7.0	1.0	30nØ	1.0Ø	1.0mØ	20 †△				20p$Ø	PE	TO39	AØ
32#	BSW39-10†	790m	50M§△	4.5m	§J		100	80 *	7.0	1.0	30nØ	1.0Ø	1.0mØ	30 †△				20p$Ø	PE	TO39	AØ
33#	BSW39-16†	790m	50M§△	4.5m	§J		100	80 *	7.0	1.0	30nØ	1.0Ø	1.0mØ	40 †△				20p$Ø	PE	TO39	AØ
34	2N1105	800m		4.6m	§S		60	60	8.0	500m	10uØ♦	10Ø	200mØ	12 †△						TO43	AØ
35	2N1943	800m		4.5m	§J		60	60	8.0	500m	10uØ	6.0Ø	1.0mØ	12 △		500 Ø			PL	TO5	
36	2N5189	800m		4.5m	§S		60	55 Ø	5.0	2.0	100u	1.0Ø	1.0 Ø	15 †△						R179q	AØ
37	2N5262†	800m		5.7m	§S		75	50	5.0	2.0	100u	1.0Ø	500mØ	40 †△						R179n	AØ
38#	2SC1069†	800m		5.3m	§J		100	80	6.0	1.0	500nØ	3.0Ø	500mØ	40					PE	TO39	A
39#	2SC1072†	800m			§J							1.0Ø	500mØ	35 †△				12pØ	PE	R179n	AØ
40#	2SC1072A†	800m			§J							1.0Ø	500mØ	35 †△				3.0pØ	PE	R179n	AØ
41#	2SC1150†	800m		5.3m	§J		60	50	5.0	1.0	500nØ	1.0Ø	500mØ	50					PE	R216	AØ
42#	2SC1351†	800m		5.3m	§J		80	65	6.0	1.0	500nØ	1.0Ø	500mØ	25 †△					PE	TO39	A
43#	2SC1385H†	800m		5.3m	§J		60	30	5.0	500m	500nØ	1.1Ø	300mØ	35 †△					PE	TO39	AØ
44#	2SC1386H†	800m		5.3m	§J		70	52	5.0	1.0	100uØ	1.0Ø	60mØ	30 †△					PE	TO39	AØ
45#	2SC1388†	800m		4.5m	§J		100	80	6.0	1.0	500nØ	3.0Ø	500mØ	15 *					PE△	TO39	A
46#	2SC1635†	800m		5.3m	§J		70	50	5.0	1.0	300nØ	1.0Ø	500mØ	50					PE△	R216a	AØ
47#	2SD329†	800m		5.3m	§J		70	200 §	5.0	1.0	20uØ	4.0Ø	1.0 Ø	40 †					D	TO39	A
48#	BC312	800m			§		100	100	5.0	150m	100n	10Ø	30mØ	130 †	5.3u	1.5k	1.5	6.0p	PL	TO5	A
49#	BCW90K	800m		6.4m	$J		50	40	5.0	800m	30nØ	2.0Ø	150mØ	100 †△				12pØ	PE	R198	A
50#	BCW91K	800m		6.4m	$J		70	60	5.0	800m	30nØ	2.0Ø	150mØ	100 †△				12pØ	PE	R198	A
51#	BF355	800m		4.5m	§J		300	225	5.0	100m	100u	1.0Ø	10mØ						PL△	TO39	AØ
52#	BFR36	800m		5.0m	§J		40	30	4.0	150m		5.0Ø	150mØ	40 †				2.1p†	PE	TO39	
53#	BFY41	800m		4.5m	§S		120	120 §	5.0	600m	.10uØ	10Ø	50mØ	35 †△				14p	PL	TO5	
54#	BSV69†	800m		5.2m	§J		45	40 *	6.0	1.0	100u	1.0Ø	500mØ	50 †#				10pØ	PE△	TO39	AØ
55#	C428	800m		4.5m	§		40	30	5.0		50u	10Ø	10mØ	150 †				14p	PL	TO39	A
56#	C744	800m		8.0m	§J		60	60 §	5.0		100u	10Ø	50mØ	175 †				14p	PE	TO39	A
57	2N1445	800m	75k†	4.5m	§J		120	120	8.0	750m	10u	10Ø	200mØ	80 †Ø#		500				TO5	Ø
58	2N4237	800m	1.0M§△	4.5m	§J		50	40	6.0	1	100u	10Ø	100mØ	30 △				100pØ		TO5	AØ
59	2N4238	800m	1.0M§△	4.5m	§J		80	60	6.0	1	100u	10Ø	100mØ	30 △				100pØ		TO5	AØ
60	2N4239	800m	1.0M§△	4.5m	§J		100	80	6.0	1	100u	10Ø	100mØ	30 △				100pØ		TO5	AØ
61#	DT1510†	800m	1.0M	5.0mØ	$S		30	20	8.0	300m	4.0u	6.0Ø	300mØ	25 †	500u	100	5.0			TO5	
62#	DT1511†	800m	1.0M	5.0mØ	$S		60	40	8.0	300m	4.0u	6.0Ø	300mØ	25 †	500u	100	5.0			TO5	
63#	DT1512†	800m	1.0M	5.0mØ	$S		100	70	8.0	300m	4.0u	6.0Ø	300mØ	25 †	500u	100	5.0			TO5	
64#	2SD149	800m	1.2M§	5.3m	§J		70	70 #	5.0	1.0	20uØ	4.0Ø	1.0 Ø	40 †					D△	TO39	A
65#	2SD215	800m	1.2M§	5.3m	§J		40	35	5.0	1.0	20uØ	4.0Ø	500mØ	70 †					D△	TO39	A
66#	2SD216	800m	1.2M§	5.3m	§J		60	50	5.0	1.0	20uØ	4.0Ø	500mØ	70 †					D△	TO39	A
67#	DT1520†	800m	2.0M	5.0mØ	$S		30	20	8.0	300m	4.0u	6.0Ø	300mØ	120 †	800u	300	5.0			TO5	
68#	DT1521†	800m	2.0M	5.0mØ	$S		60	40	8.0	300m	4.0u	6.0Ø	300mØ	120 †	800u	300	5.0			TO5	
69#	DT1522†	800m	2.0M	5.0mØ	$S		100	70	8.0	300m	4.0u	6.0Ø	300mØ	120 †	800u	300	5.0			TO5	
70	JAN2N497	800m	15M§△	4.5m	§S		60	60	8.0		100u	10Ø	50mØ	10 †△						TO5	AØ
71	JAN2N498	800m	15M§△	4.5m	§S		100	100	8.0		100u	10Ø	50mØ	10 †△						TO5	AØ
72	JAN2N656	800m	15M§△	4.5m	§S		60	60	8.0		100u	10Ø	50mØ	40 †△						TO5	AØ
73	JAN2N657	800m	15M§△	4.5m	§S		100	100	8.0		100u	10Ø	50mØ	40 †△						TO5	AØ
74	JAN2N3439†	800m	15M§△	4.5m	§S		450	350	7.0	1.0	500u	10Ø	5.0mØ	25 △				10pØ		TO5	AØ
75	JAN2N3440†	800m	15M§△	4.5m	§S		300	250	7.0	1.0	500u	10Ø	5.0mØ	25 △				10pØ		TO5	AØ
76♦#	2SC1888	800m	15M§	6.4m	$J		80	60	6.0	3.0	100u	4.0Ø	200mØ	500 †△		800		60pØ	D	TO5	AØ
77♦#	2SC1889	800m	15M§	6.4m	$J		100	80	6.0	3.0	100u	4.0Ø	200mØ	500 †△		800		60pØ	D	TO5	AØ
78▼	HSE148-RT	800m	15M§△	6.4m	$J		70	60	5.0		100u	1.0Ø	150mØ	40 †△						TO5	A
79	MJ420	800m	15M§△	5.3m	§J		275	250	6.0	100m	100u	20Ø	10mØ	25 △				12pØ		TO5	CØ
80	MJ421	800m	15M§△	5.3m	§J		350	325	6.0	100m	100u	20Ø	10mØ	25 △				12pØ		TO5	CØ
81	2N1714	800m	16M§△	5.3m	§J		90	60	6.0	750m	1.0uØ	5.0Ø	200mØ	20 †#△				50pØ		TO5	AØ
82	JAN2N1714	800m	16M§△	5.2m	§J			60	6.0	750m	1.0uØ	5.0Ø	200mØ	20 †△#				50 Ø		TO5	AØ
83	2N1715	800m	16M§△	5.3m	§J		150	100	6.0	750m	1.0uØ	5.0Ø	200mØ	20 †#△				50pØ		TO5	AØ
84	JAN2N1715	800m	16M§△	5.2m	§J			100	6.0	750m	1.0uØ	5.0Ø	200mØ	20 †△#				50 Ø		TO5	AØ
85	2N1716	800m	16M§△	5.3m	§J		90	60	6.0	750m	1.0uØ	5.0Ø	200mØ	40 †#△				50pØ		TO5	AØ
86	JAN2N1716	800m	16M§△	5.2m	§J			60	6.0	750m	1.0uØ	5.0Ø	200mØ	40 †△#				50 Ø		TO5	AØ
87	2N1717	800m	16M§△	5.3m	§J		150	100	6.0	750m	1.0uØ	5.0Ø	200mØ	40 †#△				50pØ		TO5	AØ
88	JAN2N1717	800m	16M§△	5.2m	§J			100	6.0	750m	1.0uØ	5.0Ø	200mØ	40 †△#				50 Ø		TO5	AØ
89#	2SC484	800m	20.M§	6.7m	$J		150	110	5.0	1.5	10uØ	2.0Ø	200mØ	30 †*△					DM	TO39	AØ
90#	2SC485	800m	20.M§	6.7m	$J		120	80	5.0	1.5	10uØ	2.0Ø	200mØ	30 †*△					DM	TO39	AØ
91#	2SC486	800m	20.M§	6.7m	$J		80	50	5.0	1.5	10uØ	2.0Ø	200mØ	30 †*△					DM	TO39	AØ
92	ERS100	800m	20M§△	5.2m	§J		100		6.0		2.0uØ	4.0Ø	50mØ	35 †△				15pØ		TO5	AØ
93	ERS120	800m	20M§△	5.2m	§J		120		6.0		2.0uØ	4.0Ø	50mØ	35 †△				15pØ		TO5	AØ
94	ERS140	800m	20M§△	5.2m	§J		140		6.0		2.0uØ	4.0Ø	50mØ	35 †△				15pØ		TO5	AØ
95	ERS160	800m	20M§△	5.2m	§J		160		6.0		2.0uØ	4.0Ø	50mØ	35 †△				15pØ		TO5	AØ
96	ERS180	800m	20M§△	5.2m	§J		180		6.0		2.0uØ	4.0Ø	50mØ	35 †△				15pØ		TO5	AØ
97	ERS200	800m	20M§△	5.2m	§J		200		6.0		1.0uØ	4.0Ø	50mØ	25 †△				15pØ		TO5	AØ
98	ERS225	800m	20M§△	5.2m	§J		225		6.0		2.0uØ	4.0Ø	50mØ	25 †△				15pØ		TO5	AØ
99	ERS250	800m	20M§△	5.2m	§J		250		6.0		1.0uØ	4.0Ø	50mØ	25 †△				15pØ		TO5	AØ
100	ERS275	800m	20M§△	5.2m	§J		275		6.0		2.0uØ	4.0Ø	50mØ	25 †△				15pØ		TO5	AØ
101	ERS301	800m	20M§△	5.2m	§J		300		6.0		1.0uØ	4.0Ø	50mØ	35 †△				15pØ		TO5	AØ
102	ERS325	800m	20M§△	5.2m	§J		325		6.0		2.0uØ	4.0Ø	50mØ	25 †△				15pØ		TO5	AØ
103	ERS350	800m	20M§△	5.2m	§J		350		6.0		1.0uØ	4.0Ø	50mØ	25 †△				15pØ		TO5	AØ
104	ERS375	800m	20M§△	5.2m	§J		375		6.0		2.0uØ	4.0Ø	50mØ	25 †△				15pØ		TO5	AØ
105	ERS401	800m	20M§△	5.2m	§J		400		6.0		1.0uØ	4.0Ø	50mØ	30 †△				15pØ		TO5	AØ
106	ERS425	800m	20M§△	5.2m	§J		425		6.0		2.0uØ	4.0Ø	50mØ	25 †△				15pØ		TO5	AØ
107	ERS450	800m	20M§△	5.2m	§J		450		6.0		1.0uØ	4.0Ø	50mØ	35 †△				15pØ		TO5	AØ
108	ERS475	800m	20M§△	5.2m	§J		475		6.0		1.0uØ	4.0Ø	50mØ	25 †△				15pØ		TO5	AØ
109	ETP2008†	800m	20M§△	5.3m	§J		175	110	8.0		2.0uØ	50	5.0mØ	65	250nb	6.0	700m	7.0p	PL	TO5	AØ
110	ETP3114	800m	20M§△	5.3m	§J		150	150	5.0	200m	10nØ	5.0Ø	1.0mØ	25 △				9.0pØ		TO5	AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1#	BC368	800m	65M§	8.0m	§J		20	5.0	1.0	10u	10Ø	5.0mØ	50 †Δ					PL	R204d	D
2#	BF292A	800m	66M§	4.5m	§J	150	150	5 0	100m	100nØ	50Ø	10mØ	30 †Δ				6.0p	DPL	TO5	
3#	BF292B	800m	66M§	4.5m	§J	190	190	5.0	100m	100nØ	50Ø	10mØ	30 †Δ				6.0p	DPL	TO5	
4#	BF292C	800m	66M§	4.5m	§J	220	220	5.0	100m	100nØ	50Ø	10mØ	30 †Δ				6.0p	DPL	TO5	
5	2N1335	800m	70M§Δ	5.3m	§J	120	90 §	4.0	300m	1.0uØ	10Ø	30mØ	10 †#Δ				8.0p	PL	TO5	A
6	2N1336	800m	70M§Δ	5.3m	§J	120	90 §	4.0	300m	1.0uØ	10Ø	30mØ	10 †#Δ				10p	PL	TO5	A
7	2N1337	800m	70M§Δ	5.3m	§J	120	90 §	4.0	300m	1.0uØ	10Ø	30mØ	10 †#Δ				8.0p	PL	TO5	A
8	2N1338	800m	70M§Δ	5.3m	§J	80	50 §	3.0	300m	10uØ	10Ø	30mØ	10 †#Δ				10p	PL	TO5	A
9	2N1339	800m	70M§Δ	5.3m	§J	120	100 §	3.0	300m	1.0uØ	10Ø	30mØ	10 †#Δ				8.0p	PL	TO5	A
10	2N1340	800m	70M§Δ	5.3m	§J	120	100 §	3.0	300m	1.0uØ	10Ø	30mØ	10 †#Δ				8.0p	PL	TO5	AØ
11	2N1341	800m	70M§Δ	5.3m	§J	120	100 §	3.0	300m	1.0uØ	10Ø	30mØ	10 †#Δ				8.0p	PL	TO5	A
12	2N1342	800m	70M§Δ	5.3m	§J	150	125 §	5.0	300m	10uØ	10Ø	30mØ	10 †#Δ				8.0p	PL	TO5	AØ
13	2N1505	800m	70M§Δ	5.3m	§J	50	20	3.0	500m	50uØ	28Ø	100mØ	7.0 †#Δ				20p☑		TO5	AØ
14	2N1711	800m	70M§Δ	4.5m	§J	75	50 §	7.0	1 0 #	10nØ	5.0Ø	1.0mØ	50 Δ	500n☑b	34 ☑	5.0 ☑	25p☑	Ø	TO5	AØ
15	JAN2N1711†	800m	70M§Δ	4.5m	§J	75	30	7.0	500m	10nØ	10Ø	5.0mØ	90 Δ	1.0u☑b	8.0 ☑	5.0 ☑	25p☑	Ø	TO5	AØ
16	2N1711S	800m	70M§Δ	4.5m	§J	75	50 §	7.0	1.0 #	10nØ	5.0Ø	1.0mØ	50 Δ	500n☑b	34 ☑	5.0 ☑	25p☑	Ø	TO5	AØ
17	JAN2N1890†	800m	70M§Δ	4.5m	§J	100	60	7.0	500m	10nØ	10Ø	5 0mØ	90 Δ	300n☑b	8.0 ☑	1.5 ☑	5.0p☑	Ø	TO5	
18	2N3107†	800m	70M§Δ	4.5m	§J	100	60	7.0	1	.01u§	10Ø	1.0mØ	60 Δ				20p☑	Ø	TO5	AØ
19	2N3109†	800m	70M§Δ	4.5m	§J	80	40	7.0	1		10Ø	1.0mØ	60 Δ				25p☑	Ø	TO5	AØ
20#	2SC1008A†	800m	70M§	6.4m	§J	100	80	8.0	700m	100nØ	2.0Ø	50mØ	140 †#				15p	E	R216e	AØ
21#	BFY46	800m	70M§Δ	4.5m	§J	75	50 §	7.0	1.0 #	10nØ	10Ø	10mØ	75 †Δ				25p	Ø	TO5	AØ
22#	C425	800m	70M§	4.5m	§A	75	60	7.0		20nØ	10Ø	5.0mØ	75	16u	750	1.1	13p	DPL	TO5	Ø
23	UPI1711	800m	70M§Δ	4.5m	§J	75	50	7.0	1.0 #	10nØ	5.0Ø	1.0mØ	50 Δ	500n☑b	34 ☑	3.0 ☑	25p☑		TO105	A
24#	ZT1711	800m	70M§Δ	4.5m	§J	75	50	7.0		10nØ	10Ø	150mØ	100 †Δ#				25p☑	PLØ	TO5	Ø
25#	2SC1008†	800m	75M§	6.4m	§J	80	60	8.0	700m	100nØ	2.0Ø	50mØ	160 †#				17p	E	R216e	AØ
26▼	HSE178-RT	800m	75M§Δ	6.4m	§J	120	100	5.0		500nØ	10Ø	150mØ	50 †Δ						TO5	A
27	2N3020	800m	80M§Δ	4.5m	§J	140	80	7.0	1	.01uØ	5.0Ø	1.0mØ	30 Δ				12p☑		TO5	AØ
28	2N3020S	800m	80M§Δ	4.5m	§J	140	80	7.0	1.0	10nØ	5.0Ø	1.0mØ	30 Δ				12p☑		TO5	AØ
29	2N4896†	800m	80M§Δ	4.5m	§J	120	60	6.0	5.0	1.0m§♦	2.0Ø	2.0 Ø	100 †Δ				80p☑		TO39	CØ
30#	BC288	800m	80M§	4.5m	§J	80	40	6.0	5.0	10n§	2.0Ø	2.0 Ø	30 †Δ				45p	DPE	TO5	
31#	BCW44	800m	80M	4.5m	§	70	55	5.0	1.0	100n	1.0Ø	200mØ	40 †				12p	PE	TO39	A
32#	BF294	800m	80M§	4.5m	§J	160	160	6.0	100m	100u	50Ø	10mØ	70 †				2.5p	PL	TO39	A
33#	BFR77	800m	80M§	4.5m	§J	120	80	7.0	1.0	10n	10Ø	150mØ	40 †				12p	PE	TO39	
34#	BFR78	800m	80M§	4 5m	§J	120	100	7 0	1 0	10n	10Ø	100uØ	20 †				12p	PE	TO39	
35#	BFX69	800m	80M§	4 5m	§J	75	30	7.0		10nØ	5.0Ø	1.0mØ	55	12u	2.2k	3.6	18p	DPLØ	TO5	AØ
36#	BFY56B	800m	80M§	4.5m	§	80	55	7.0	1.0	50n	1 0Ø	150mØ	70 †				12p	PE	TO39	A
37#	BSW65†	800m	80M§	4.5m	§J	80	80	6.0	1 0	100u	5.0Ø	1.0 Ø	15 †Δ				35p$☑	PE	TO5	AØ
38	BSW66☑†	800m	80M†		§J						5.0Ø	10mØ	30 Δ				35p☑$		TO39	AØ
39	BSW67☑†	800m	80M†		§J						5.0Ø	10mØ	30 Δ				35p☑$		TO39	AØ
40	BSW68☑†	800m	80M†		§J						5.0Ø	10mØ	30 Δ				35p☑$		TO39	AØ
41#	C426†	800m	80M§	4.5m	§J	60	30	5.0		100nØ	5.0Ø	1.0mØ	60	8.0u	1.8k	2.1	12p	DPE	TO5	Ø
42#	BFX69A	800m	84.M§	4.5m	§J	80	40	7.0		.01uØ	5.0Ø	1.0mØ	70	8.0u	1.8k	2.1	13p	DPLØ	TO5	AØ
43#	BC310	800m	86M§		§	70	70	5.0	1.0	50n	10Ø	10mØ	110 †				12p	PE	TO5	A
44	BF174	800m	86.M§	4.5m	§J	150	150	6.0		.01uØ	10Ø	25mØ	20 Δ				2.6p	DPL	TO5	
45#	BFY56†	800m	86.M§	4.5m	§J	80	45	5.0		.05uØ	10Ø	.10mØ	40 †				12p	DPE	TO5	AØ
46#	BFY56A	800m	86.M§	4.5m	§J	80	55	7.0		.05uØ	1.0Ø	150mØ	70 †#				12p	PE	TO39	AØ
47	SE7010	800m	86.M§	4.5m	§J	150	150	6.0		.01uØ	10Ø	25mØ	20 Δ		50 ☑		2.6p	DPL	TO5	
48	2N2440	800m	90M§Δ	4.5m	§J	120	80	7.0	500m	1.0nØ	10Ø	5.0mØ	70 Δ	500n☑b	30 ☑	2.5 ☑	15p☑	Δ	TO5	AØ
49#	BFR20	800m	90M§	28m	§	35	75 Ø	7.0		10n	1.0Ø	150mØ	90 †Δ				13p	PE	TO39	A
50#	BFR21	800m	90M§	28m	§	70	120 Ø	7.0		10n	1.0Ø	150mØ	40 †Δ	8.0u	2.0k	2.1	13p	PE	TO39	A
51	2N1893A	800m	100M§Δ	4.5m	§J	140	80	7.0	500m	10nØ	5.0Ø	1.0mØ	30 Δ	500n☑b	30 ☑	1.2	8.0p☑	Δ	TO5	AØ
52	2N2330Ø	800m	100M§Δ	5.3m	§S	30	20	5.0	500m	1.0nØ	1.0Ø	10mØ	50 †Δ				10p☑	Δ	TO5	AØ
53	2N3019	800m	100M§Δ	4.5m	§J	140	80	7.0	1	.01uØ	5.0Ø	1.0mØ	80 Δ				12p☑	Ø	TO5	AØ
54	JAN2N3019	800m	100M§Δ	4.6m	§J	140	80	7.0	1.0	10n§	5.0Ø	1.0mØ	80 Δ				12p☑	Ø	TO5	AØ
55	2N3019S	800m	100M§Δ	4.5m	§J	140	80	7.0	1.0	10nØ	5.0Ø	1.0mØ	80 Δ				12p☑		TO5	AØ
56#	2SC995	800m	100M§		§J	300	300	5.0	100m	100nØ	10Ø	50mØ	80 †				5.5p☑	DPL	TO39	A
57#	2SC1382	800m	100M§		§J	80	80		750m	500nØ	2.0Ø	150mØ	120 †				20p☑	PE	B7	B
58#	2SD355	800m	100M§	6.9m	♦J	30	25	4.0	1.0	1.0uØ	1.0Ø	500mØ	100 †#					PE	TO92	
59#	BC286	800m	100M§	4.5m	§J	70	60	5.0	1.0	20n§	2.0Ø	500mØ	20 †Δ				12p	DPE	TO5	
60#	BC323	800m	100M§	4.5m	§	100	100 Ø	5.0	5.0	100u	1.0Ø	500mØ	160 †				80p	PE	TO39	A
61#	BC324	800m	100M	4.5m	§	85	55	5.0	1.0		1.0Ø	50mØ	20 †				25p	PE	TO39	A
62#	BC340-6	800m	100M§	4.5m	§J	40	40	5.0	500m	100n§	5.0Ø	50mØ	40 †Δ				10p	PE	TO39	AØ
63#	BC340-10	800m	100M§	4.5m	§J	40	40	5.0	500m	100n§	5.0Ø	50mØ	63 †Δ				10p	PE	TO39	AØ
64#	BC340-16	800m	100M§	4.5m	§J	40	40	5.0	500m	100n§	5.0Ø	50mØ	100 †Δ				10p	PE	TO39	AØ
65#	BC341-6	800m	100M§	4.5m	§J	60	60	5.0	500m	100n§	5.0Ø	50mØ	40 †Δ				10p	PE	TO39	AØ
66#	BC341-10	800m	100M§	4.5m	§J	60	60	5.0	500m	100n§	5.0Ø	50mØ	63 †Δ				10p	PE	TO39	AØ
67#	BF108	800m	100M§	4.5m	§S	135	135 §	3.0		1.0uØ	10Ø	30mØ	50 †				3p☑	PL	TO5	AØ
68#	BFR19	800m	100M§	28m	§	35	75 Ø	7.0		10n	1.0Ø	500mØ	30 †Δ	8.5u	2.2k	2.4	12p	PE	TO39	A
69#	BFT39	800m	100M§Δ	4.5m	§A	90	80	5.0	1.0	100nØ	10Ø	100mØ	250 †				10p☑	PE	TO39	AØ
70#	BFT40	800m	100M§Δ	4.5m	§A	70	60	5.0	1.0	100nØ	10Ø	100mØ	250 †				10p☑	PE	TO39	AØ
71#	BFT41	800m	100M§Δ	4.5m	§A	60	50	5.0	1.0	100nØ	10Ø	100mØ	300 †				10p☑	PE	TO39	AØ
72#	BSX22	800m	100M§	5.3m	§J	40	32	5.0	1.5		2.0Ø	500mØ	35 †Δ				20p	PE	TO5	
73#	BSY51	800m	100M§	4.5m	§J	60	25	5.0	500m	100nØ	10Ø	150mØ	40 †Δ	8.0u	1.5k	800m	7.5p$	PEΔ	TO39	AØ
74	BSY51☑	800m	100M§Δ	4.5m	§J	60	25	5.0	500m	100nØ	5.0Ø	1.0mØ	30 Δ	13u☑	4.5k☑	3.0 ☑	10p☑	ANØ	TO39	C
75#	BSY53	800m	100M§	4.5m	§J	75	30	7.0	750m	10nØ	10Ø	150mØ	40 †Δ	7.0u	1.5k	800m	6.5p$	PEΔ	TO39	AØ
76	BSY53☑	800m	100M§Δ	4.5m	§J	70	30	7.0	750m	10nØ	5.0Ø	1.0mØ	30 Δ	10u☑	4.5k☑	3.0 ☑	10p☑	ANØ	TO39	C
77#	BSY55	800m	100M§	4.5m	§J	120	80	7.0	500m	10nØ	10Ø	150mØ	40 †Δ	4.0u	1.6k	600m	6.0p$	PEΔ	TO39	AØ
78#	BSY87	800m	100M§	4.5m	§J	100	60	7.0	500m	10nØ	10Ø	150mØ	40 †Δ				10p	PE	TO39	AØ
79#	BSY88	800m	100M§	4.5m	§J	100	60	7 0	500m	10nØ	10Ø	150mØ	100 †Δ				10p	PE	TO39	AØ
80#	BSY90	800m	100M§	4.5m	§J	60	25	5.0	500m	10nØ	10Ø	150mØ	250 †Δ				10p	PE	TO39	AØ
81▼	HSE146-RT	800m	100M§Δ	6.4m	§J	70	50	5 0		200nØ	5 0Ø	150mØ	50 †Δ						TO5	A
82▼	HSE171-RT	800m	100M§Δ	6.4m	§J	60	40	4.0		1.0uØ	5.0Ø	150mØ	30 †Δ						TO5	A
83#	SFT187	800m	100M§	4.5m	§J	135	135 §	3.0		1.0uØ	10Ø	30mØ	50 †				3.0p☑		TO5	Ø
84	TN53	800m	100M§Δ	4.5m	§J	75	45	5.0	800m	10nØ	5.0Ø	1.0mØ	55	200n☑b	35 ☑	1.2 ☑	8.0p☑	PEΔ	TO5	A
85	TN59†	800m	100M§Δ	4.5m	§J	40	30	5.0	800m	20nØ	5.0Ø	1.0mØ	140	100n☑b	27	3.2	8.0p☑	PEØ	TO5	A
86	TN61†	800m	100M§Δ	4.5m	§J	40	30	5.0	800m	20nØ	5.0Ø	1.0mØ	50	900n☑b	26	3.2	8.0p☑	PEØ	TO5	A
87#	2SD571	800m	110M§	6.4m	§J	60	50	5.0	700m	100n	1.0Ø	100mØ	200 †				13p	E		B
88#	BF257☑	800m	110M§		§J	160	160	5.0	100m	50nØ	10Ø	30mØ	25 †Δ				5.5p	PE	TO5	A
89#	BF258☑	800m	110M§		§J	250	250	5.0	100m	50nØ	10Ø	30mØ	25 †Δ				5.5p	PE	TO5	A
90#	BF259☑	800m	110M§		§J	300	300	5.0	100m	50nØ	10Ø	30mØ	25 †Δ				5.5p	PE	TO5	A
91	2N4383	800m	120M§☑	4.7m	§S	40	30	5.0	800m	10nØ	5.0Ø	1.0mØ	1.0k☑	200n☑b	32 ☑		8.0p☑	Ø	TO5	A
92	2N4385	800m	120M§☑	4.7m	§S	40	30	5.0	800m	10nØ	5.0Ø	1.0mØ	1.0k☑	200n☑b	32 ☑		8.0p☑	Ø	TO5	A
93#	2SC788	800m	120M§		§J	250	150	5.0	50m	.1uØ	5.0Ø	10mØ	100 †				4.0p	PL	TO5	A
94#	BF177	800m	120M§	5.3m	§S	100	60	5.0	100m		15Ø	20mØ	20 †Δ				8.0p☑	PE	TO39	A
95#	BF178	800m	120M§	5.3m	§S	160	115	5.0	100m		15Ø	20mØ	20 †Δ				8.0p☑	PE	TO39	A
96#	BF179	800m	120M§	5.3m	§S	250	115	5.0	100m		15Ø	20mØ	20 †Δ				8.0p☑	PE	TO39	A
97#	BFW45	800m	120M§	4.5m	§J	165	130	5.0	50m	.10uØ	20Ø	50mØ	20 Δ†				4p$	PL	TO39	AØ
98#	2SC1735	800m	130M§	7.3m	†J	100	100	5.0	500m	1.0uØ	10Ø	10mØ	130 †				7.0p	PE	TO92	
99#	2SD471	800m	130M§	6.4m	§J	30	25	5.0	1.0	100n	1.0Ø	100mØ	200 †				22p	E		B
100#	BC635	800m	130M§	6.0m	§J	45	45	5.0	1.0	100nØ	2.0Ø	150mØ	40 †Δ					PE	TO92	D
101▼#	BC635☑	800m	130M§	6.4m	§J	45	45	5.0	1.0	10u	2.0Ø	150mØ	40 †Δ					PE	R221a	B
102#	BC637	800m	130M§	6.0m	§J	60	60	5.0	1.0	100nØ	2.0Ø	150mØ	40 †Δ					PE	TO92	D
103▼#	BC637☑	800m	130M§	6.4m	§J	60	60	5.0	1.0	10u	2.0Ø	150mØ	40 †Δ					PE	R221a	B
104#	BC639	800m	130M§	6.0m	§J	100	80	5.0	1.0	100nØ	2.0Ø	150mØ	40 †Δ					PE	TO92	D
105▼#	BC639☑	800m	130M§	6.4m	§J	100	80	5.0	1.0	10u	2.0Ø	150mØ	40 †Δ					PE	R221a	B
106#	BFR86	800m	130M§	6.4m	§A	120	120	5.0	200m	50n	10Ø	30mØ	20 †Δ*				2.2p†	PE	TO92	B
107#	BFR86TO5	800m	130M§	6.4m	§A	120	120	5 0	200m	50n	10Ø	30mØ	20 †Δ*				2.2p†	PE	R188	B
108#	BFR87	800m	130M§	6.4m	§A	160	160	5.0	200m	50nØ	10Ø	30mØ	20 †Δ*				2.2p†	PE	TO92	B
109#	BFR87TO5	800m	130M§	6.4m	§A	160	160	5.0	200m	50nØ	10Ø	30mØ	20 †Δ*				2.2p†	PE	R188	B
110#	BFR88	800m	130M§	6.4m	§A	250	250	5.0	200m	50nØ	10Ø	30mØ	20 †Δ*				2.2p†	PE	TO92	B

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1#	2SC198A	800m	350M§	5.3m	§J	50		5.0	500m	1.0uØ	10Ø	20m	40 †		50			PE	TO12	GØ
2#	2SC319	800m	350M§Δ	5.3m	§J	40	20	4.0	300m	1.0uØ	10Ø	100mØ	20 †#Δ				10pØ	PE	TO33	
3#	2SC781	800m	350M§		§J	75	40	5.0	1	1.0uØ	10Ø	150mØ	80 †				11p	PE	TO5	
4#	BFR10†	800m	350M§		§J						10Ø	150mØ	60 †Δ				5.0p	PE	TO39	A
5#	BFY72	800m	350M§	3.4m	§J	50	28	5.0		20n§	10Ø	10mØ	90	55u	460	1.3	5.0p	DPE	TO5	Ø
6	2N2883	800m	400M§Δ	4.5m	§J	40	20	4.0	300m	.50uØ	10Ø	100mØ	20 †#Δ				10p	PE	TO5	AØ
7	2N2884	800m	400M§Δ	4.5m	§J	40	20	4.0	300m	.50uØ	10Ø	100mØ	20 †#Δ				10p	PE	TO5	AØ
8	2N3123	800m	400M§Δ	5.2m	§J	60	30	5.0	800m	10nØ	10Ø	150mØ	100 †#Δ		60 Ø		8.0pØ		TO5	Ø
9	2N5188†	800m	400M§Δ	4.5m	§S	60	25	5.0	1	.50uØ	.50Ø	150mØ	25 †Δ						TO39	AØ
10#	2SC138	800m	400M§	5.3m	§J	60	30	5.0	500m	1.0uØ	10Ø	30m	50				4.0p	PE	TO33	
11#	2SC138A	800m	400M§		§J	60	35	5.0	500m	1.0uØ	10Ø	30m	50				4.0p	PE	TO33	
12#	2SC139	800m	400M§	5.3m	§J	60	30	5.0	500m	1.0uØ	10Ø	30m	50				4.0p	PE	TO33	
13#	2SC320	800m	400M§Δ	5.3m	§J	40	20	4.0	500m	1.0uØ	10Ø	100mØ	20 †#Δ				10pØ	PE	TO33	
14#	2SC596	800m	400M§		§J	60	30	5.0	500m	.50uØ	10Ø	30m	50				6.0p	PE	TO33	
15#	BSS27†	800m	400M§	4.4m	§J	70	45	5.0	1.0	1.0u*	1.0Ø	150mØ	30 †Δ				8.0p$Ø		TO39	AØ
16#	BSS28†	800m	400M§	4.4m	§J	50	30	5.0	1.0	1.0u*	1.0Ø	150mØ	40 †Δ				8.0p$Ø		TO39	AØ
17#	BSS29†	800m	400M§	4.4m	§J	50	30	5.0	1.0	1.0u*	1.0Ø	150mØ	25 †Δ				8.0p$Ø		TO39	AØ
18#	BSV77†	800m	400M§		§J						1.0Ø	100mØ	60 †Δ				4.8p	PE	TO39	A
19#	BSV95†	800m	400M§		§J						1.0Ø	500mØ	20 †Δ				4.8p	PE	TO39	A
20#	BSY34†	800m	400M§	4.5m	§J	60	40	5.0	600m	70nØ	1.0Ø	100mØ	42 †				4.5p	PE	TO39	A
21#	BSX32†	800m	450M§	4.5m	§J	65	40	6.0	1.0	4.0uØ	1.0Ø	10mØ	60 †#				5.0p	DPE	TO5	Ø
22	BSX32ØØ†	800m	450M§	4.5m	§J	65	40	6.0	1.0	4.0uØ	1.0Ø	10mØ	60 †#				6.0p	AN	TO39	A
23#	BSX59†	800m	475M§	4.5m	§J	70	45	5.0	1	.50uØ	1.0Ø	500mØ	25 †Δ				5.8p	PE	TO5	AØ
24#	BSX60†	800m	475M§	4.5m	§J	70	30	5.0	1	.50uØ	1.0Ø	500mØ	30 †Δ				5.8p	PE	TO5	AØ
25#	BSX61†	800m	475M§	4.5m	§J	70	45	5.0	1	.50uØ	1.0Ø	500mØ	25 †Δ				5.8p	PE	TO5	AØ
26#	2SC566	800m	500M§Δ		§J	50	40	4.0	300m	.20uØ	10Ø	100mØ	50 †#Δ				4pØ	PE	TO33	
27#	2SC654	800m	500M§Δ		§J	40	35	3.0	300m	.20uØ	15Ø	50m	40 Δ				3.5pØ	PE	TO33	
28#	2SC1324	800m	1.7G	5.3m	§J	35	25	4.0	150m	50uØ	15Ø	30mØ	70 †					PE	TO39	
29♦#	2SC1513	800m	1.8G§	5.3m	§J	40	25	3.0	300m		15Ø	30mØ	35 †Δ				3.0p†	EP	TO33	G
30♥#	2SC1952*	800m	2.0G§	4.6m	§J	45	25	3.0	300m	100nØ	10Ø	50mØ	80 †				2.0p	E	TO39	A
31♦#	2SC1457	800m	2.7G§	4.5m	§J	35	18	3.0	150m	100nØ	10Ø	50mØ	100 †		45		1.0p	E	TO33	G
32♦#	BF422	830m	60M§	6.6	§J	250	250	5.0	20m	10n	20Ø	25mØ	50 †Δ				1.6p$Ø	PE	R191	B
33#	BC300-4	850m		40mØ	§J	120	80	6.0		20nØ	10Ø	150mØ	40 Δ						TO39	
34#	BC300-5	850m		40mØ	§J	120	80	6.0		20nØ	10Ø	150mØ	70 Δ						TO39	
35#	BC300-6	850m		40mØ	§J	120	80	6.0		20nØ	10Ø	150mØ	120 Δ						TO39	
36#	BC301-4	850m		40mØ	§J	90	60	6.0		20nØ	10Ø	150mØ	40 Δ						TO39	
37#	BC301-5	850m		40mØ	§J	90	60	6.0		20nØ	10Ø	150mØ	70 Δ						TO39	
38#	BC301-6	850m		40mØ	§J	90	60	6 0		20nØ	10Ø	150mØ	120 Δ						TO39	
39#	BC302-4	850m		40mØ	§J	60	45	6.0		20nØ	10Ø	150mØ	40 Δ						TO39	
40#	BC302-5	850m		40mØ	§J	60	45	6.0		20nØ	10Ø	150mØ	70 Δ						TO39	
41#	BC302-6	850m		40mØ	§J	60	45	6.0		20nØ	10Ø	150mØ	120 Δ						TO39	
42	2N2849-1	850m$	30k§Δ	66m	§S	100	80	5.0	3.0	100n§	1.0Ø	1.0 Ø	100 †Δ#				125pØ	PE	TO5	A
43	2N2850-1†	850m$	30k§Δ	66m	§S	100	80	5.0	3.0		1.0Ø	1.0	40 †Δ#					PE	T26	AØ
44	2N2851-1†	850m$	30k§Δ	66m	§S	100	80	5.0	3.0		1.0Ø	1.0	40 †Δ#					PE	TO5	AØ
45	2N2852-1†	850m$	30k§Δ	66m	§S	100	80	5.0	3.0		1.0Ø	1.0	20 †Δ#					PE	TO5	AØ
46	2N2853-1†	850m$	30k§Δ	66m	§S	60	40	5.0	3.0		1.0Ø	1.0	40 †Δ#					PE	TO5	AØ
47	2N2854-1	850m$	30k§Δ	66mØ	§S	60	40	5.0	3.0	100n§	1.0Ø	1 0 Ø	100 †Δ#				125pØ	PE	TO5	A
48	2N2855-1†	850m$	30k§Δ	66m	§S	60	40	5.0	3.0		1.0Ø	1.0	40 †Δ#					PE	TO5	AØ
49	2N2856-1†	850m$	30k§Δ	66m	§S	60	40	5.0	3.0		1.0Ø	1.0	20 †Δ#					PE	TO5	AØ
50	2N2849†	850m	30M§Δ	5.0m	§S	100	80	5.0	3.0	100n§	1.0Ø	1.0 Ø	100 †Δ#				125pØ		R61	Ø
51	2N2850†	850m	30M§Δ	5.0m	§S	100	80	5.0	3.0	100n§	1.0Ø	1.0 Ø	40 †Δ#				125pØ		R61	Ø
52	2N2851†	850m	30M§Δ	5.0m	§S	100	80	5.0	3.0	100n§	1.0Ø	1.0 Ø	40 †Δ#				125pØ		R61	Ø
53	2N2852†	850m	30M§Δ	5.0m	§S	100	80	5.0	3.0	100n§	1.0Ø	1.0 Ø	20 †Δ#				125pØ		R61	Ø
54	2N2853†	850m	30M§Δ	5.0m	§S	60	40	5.0	3.0	100n§	1.0Ø	1.0 Ø	40 †Δ#				125pØ		R61	Ø
55	2N2854†	850m	30M§Δ	5.0m	§S	60	40	5.0	3.0	100n§	1.0Ø	1.0 Ø	100 †Δ#				125pØ		R61	Ø
56	2N2855†	850m	30M§Δ	5 0m	§S	60	40	5.0	3.0	100n§	1.0Ø	1.0 Ø	40 †Δ#				125pØ		R61	Ø
57	2N2856†	850m	30M§Δ	5.0m	§S	60	40	5.0	3 0	100n§	1.0Ø	1.0 Ø	20 †Δ#				125pØ		R61	Ø
58	UPT011†	850m	40M§	40m	§J	200	150 *	5.0	500m	10u*	5.0Ø	100mØ	30 †Δ#				50pØ	PL	TO5	A
59	UPT012†	850m	40M§	40m	§J	250	200 *	5.0	500m	10u*	5.0Ø	100mØ	30 †Δ#				50pØ	PL	TO5	A
60	UPT013†	850m	40M§	40m	§J	300	250 *	5.0	500m	10u*	5.0Ø	100mØ	30 †Δ#				50pØ	PL	TO5	A
61	UPT014†	850m	40M§	40m	§J	350	300 *	5.0	500m	10u*	5.0Ø	100mØ	30 †Δ#				50pØ	PL	TO5	A
62	UPT015†	850m	40M§	40m	§J	400	350 *	5.0	500m	10u*	5.0Ø	100mØ	30 †Δ#				50pØ	PL	TO5	A
63	2849-1	850m	50.M§	5.0m	§A	100	80	5.0	3	.10u§	1.0Ø	50mØ	90 †				60p	PL	TO5	AØ
64	2849-2	850m	50.M§	5.0m	§A	100	80	5.0	3	.10u§	1.0Ø	50mØ	90 †				60p	PL	T26	AØ
65	2849-3	850m	50.M§	5.0m	§A	100	80	5.0	3	.10u§	1.0Ø	50mØ	90 †				60p	PL	T32	AØ
66	UPT111†	850m	50M§	40m	§J	60	40 *	5.0	1.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5	A
67	UPT112†	850m	50M§	40m	§J	80	60 *	5.0	1.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5	A
68	UPT113†	850m	50M§	40m	§J	100	80 *	5.0	1.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5	A
69	UPT114†	850m	50M§	40m	§J	120	100 *	5.0	1.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5	A
70	UPT115†	850m	50M§	40m	§J	150	100 *	5.0	1.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5	A
71	UPT211†	850m	70M§	40m	§J	60	40 *	5.0	2.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5	A
72	UPT212†	850m	70M§	40m	§J	80	60 *	5.0	2.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5	A
73	UPT213†	850m	70M§	40m	§J	100	80 *	5.0	2.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5	A
74	UPT214†	850m	70M§	40m	§J	120	100 *	5.0	2.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5	A
75	UPT215†	850m	70M§	40m	§J	150	100 *	5.0	2.0	10u*	5.0Ø	500mØ	30 †Δ#				50pØ	PL	TO5	A
76#	BFX55	850m	500M§	4.5m	§J	60	40	3.5	400m	50nØ	5.0Ø	50mØ	160 †ØØ				2.5p†	PE	TO39	A
77#	BSS45†	870m		5.0m	§J	85	80	6.0	5.0	500nØ	2.0Ø	500mØ	25 †Δ#				53p$	PE	TO39	A
78#	SE8001	870m	40M§Δ	5.0m	§J	60	30	5.0		.10uØ	1.0Ø	150mØ	20 †#Δ				25pØ	PE	TO5	AØ
79	SE8002	870m	40M§Δ	5.0m	§J	80	40	5.0		.01uØ	1.0Ø	150mØ	40 †#Δ				25pØ	PE	TO5	AØ
80#	BFY80	870m*Ø	50M§Δ	6.7m	§J	100	80 *	7.0	100m	500u	2.0Ø	15mØ	30 †Δ				8.0p	PE	TO18	AØ
81	2N699B	870m	60M§Δ		§J	120	80 *	7.0		10nØ	5.0Ø	1.0mØ	35 Δ	500nØØb	30 Ø	1.2 Ø	15pØ		TO5	AØ
82#	BFX34†	870m	70M§Δ	5.0m	§J	120	60	6.0	5.0	10u§	2.0Ø	2.0 Ø	40 †Δ#				100p$Ø	PE	TO39	AØ
83#	BCW77-16†	870m	100M§Δ	5.0m	§J		32	5.0	800m	20n§	1.0Ø	100mØ	250 †ØØ				12p$Ø	PE	TO39	A
84#	BCW77-25†	870m	100M§Δ	5.0m	§J		32	5.0	800m	20n§	1.0Ø	100mØ	400 †ØØ				12p$Ø	PE	TO39	A
85#	BCW77-40†	870m	100M§Δ	5.0m	§J		32	5.0	800m	20n§	1.0Ø	100mØ	630 †ØØ				12p$Ø	PE	TO39	A
86#	BCW78-16†	870m	100M§Δ	5.0m	§J		45	5.0	800m	20n§	1.0Ø	100mØ	250 †ØØ				12p$Ø	PE	TO39	A
87#	BCW78-25†	870m	100M§Δ	5.0m	§J		45	5.0	800m	20n§	1.0Ø	100mØ	400 †ØØ				12p$Ø	PE	TO39	A
88#	BCW78-40†	870m	100M§Δ	5.0m	§J		45	5.0	800m	20n§	1.0Ø	100mØ	630 †ØØ				12p$Ø	PE	TO39	A
89#	BSX62-10†	875m	70M§	5.0m	§J		40	5.0	500m	100n§♦	1.0	1.0 Ø	100 †*				35p$	PE	TO39	AØ
90#	BSX62-16†	875m	70M§	5.0m	§J		40	5.0	500m	100n§♦	1.0	1.0 Ø	160 †*				35p$	PE	TO39	AØ
91#	BSX63-10†	875m	70M§	5.0m	§J		60	5.0	3.0	100n§♦	1.0Ø	1.0 Ø	100 †*				35p$	PE	TO39	AØ
92#	BSX63-16†	875m	70M§	5.0m	§J		60	5.0	3.0	100n§♦	1.0Ø	1.0 Ø	160 †*				35p$	PE	TO39	AØ
93#	BSX64-10†	875m	70M§	5.0m	§J		80	5.0	3.0	100n§♦	1.0Ø	1.0 Ø	100 †*				35p$	PE	TO39	AØ
94	2N5702	880mØ		20m	§S	36	18	3.0	500m	1.0mΔ	5.0Ø	50mØ	15 †Δ				20pØ		TO39	AØ
95#	BSX46-6†	880m	50M§Δ	5.0m	§J		60	7.0	1.0	30n§	1.0Ø	100uØ	28 †				25p$Ø	PEØ	TO39	AØ
96#	BSY81	900m	100M§	5.1m	§J	40	18	5.0	1.0	100nØ	10Ø	150mØ	40 †Δ				15pØ	PE	TO39	AØ
97#	BSY82	900m	100M§	5.1m	§J	40	18	5.0	1.0	100nØ	10Ø	150mØ	100 †Δ				15pØ	PE	TO39	AØ
98#	BSY83	900m	100M§	5.1m	§J	80	35	7.0	1.0	10nØ	10Ø	150mØ	40 †Δ				15pØ	PE	TO39	AØ
99#	BSY84	900m	100M§	5.1m	§J	80	35	7.0	1.0	10nØ	10Ø	150mØ	100 †Δ				15pØ	PE	TO39	AØ
100#	BSY85	900m	100M§	5.1m	§J	120	64	7.0	1.0	10nØ	10Ø	150mØ	40 †Δ				15pØ	PE	TO39	AØ
101#	BSY86	900m	100M§	5.1m	§J	120	64	7.0	1.0	10nØ	10Ø	150mØ	100 †Δ				15pØ	PE	TO39	AØ
102♥#	2SD666	900m	140M§	7.2m	§J	120	80	5.0	50m	10uØ	5.0Ø	10mØ	60 †Δ*				3.0p	E	R195c	B
103♥#	2SD666A	900m	140M§	7.2m	§J	120	100	5.0	50m	10uØ	5.0Ø	10mØ	60 †Δ*				3.0p	E	R195c	B
104♥#	2SD667	900m	140M§	7.2m	§J	120	80	5.0	1.0	10uØ	5.0Ø	150mØ	60 †Δ*				12p	E	R195c	B
105♥#	2SD667A	900m	140M§	7.2m	§J	120	100	5.0	1.0	10uØ	5.0Ø	150mØ	60 †Δ*				12p	E	R195c	B
106#	2SD468	900m	190M§		§J	25	20	5.0	1.0	1.0uØ	2.0Ø	500mØ	60 †Δ				22p	E	R195c	B
107#	BSY58†	900m	400M§	4.5m	§J	50	25	5.0	600m	120n	1.0Ø	100mØ	42 †				4.5p	PE	TO39	A
108#	2SC1810	950m	13M§	10m	♦J	700	300	12	1.0	2.0uØ	5.0Ø	10mØ	30 †Δ				15pØ	DΔ	B2	D
109#	2SC1127	950m	28M§	10m	§S		180	8.0	100m	1.0uØ	5.0Ø	3.0mØ	30 †Δ				3.5pØ	EM†	B2	A
110#	2SC1429	950m	40M§Δ	10m	§S	16	12	6.0	2.0	100n	2.0Ø	100mØ	250 †*				40pØ	E†	B2	A

6. SILICON FIELD EFFECT TRANSISTORS - P CHANNEL

IN ORDER OF (1) DISSIPATION
(2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	& Vds	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	Igss@ Vgs>Vp &Vds=0 (A)	TEST COND Vgs (V)	Vds (V)	PARAMETERS @25°C COMMON SOURCE gfs (mhos) MIN	MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUC-TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	MEM517B		5.0Δ		30	25				05n			1.2mΔ							*	TO5
2	VCR3P		7.0	10		15				20n						200 %			150S	#	TO72 DG
3	VCR5P		7.0	10		15				10n						900 %			150S	#	TO72 DG
4	2N3573	6 0mt	2.0t	10		25		1 0m	.10m	.60n	0.0	10	.10m	.30m	4.0u%		6 0p#	2.0m	200S		TO72 DG
5	2N3698	7.5mt	1.1	20		30	.25m	50m	.25mΔ	10n	0.0	20	.25m	.75m	3.0u%		5.0p#	2.0m	200S	Ø	TO72 DG
6#	2SJ17	10m	2.5			20Δ	1.0m	500u	150uΔ*	100p	0 0	9.0	200m				9 0p#		85J		
7	2N3277	12.mt	5.0t	10	25	25	.50m	10m		.40n	0.0	10	.10m		2.0u	500k	4 5p#		200S		TO33 DG
8	2N3574	18mt	2.0t	10		25		1 0m	380u	600p	0 0	10	200u	600u	10u%		6.0p#	2 0m	200S		TO72 DG
9	2N3328	20mt	6.0t	10		20		1.0m	1 0m	1.0n	0.0	10	.10m				4p#%	2.0m	200S		TO72 DG
10	2N3333Ø	20mt	1.6t	10	20	20		10m	1.0m	10n	0.0	10	.60m	1.8m	15u		30p#	2.0m	200S		TO89 PB
11	2N3334Ø	20mt	1.6t	10	20	20		10m	1 0m	10n	0 0	10	.60m	1.8m	15u		30p#	2.0m	200S		TO89 PB
12	2N3335Ø	20mt	1.6t	10	20	20		10m	1.0m	10n	0 0	10	.60m	1.8m	15u		30p#	2.0m	200S		TO89 PV
13	2N3336Ø	20mt	1.6t	10	20	20		10m	1.0m	10n	0.0	10	.60m	1.8m	15u		30p#	2.0m	200S		TO89 PV
14	2N3278	22.mt	8.0t	10	25	25	.90m	10m		40n	0.0	10	.15m		10u	100k	4.5p#		200S		TO33 DG
15	2N3575	40mt	4.0t	10		25		1 0m	1.0m	.60n	0.0	10	.30m	.90m	20u%		6.0p#	2.0m	200S		TO72 DG
16	2N3696	45mt	3.2	20		30	1.5m	50m	1.5mΔ	.10n	0.0	20	.75m	1.2m	15u%		5.0p#	2.0m	200S	Ø	TO72 DG
17#	2SJ22	50m				80Δ	1.0m	500u	700u	50p	0 0	20	200m						85J	PE#	TO18 DF
18	UC420	75mt	2.5	20		30Δ			2.5mΔ	01n	0.0	20	1.0m			70k	8 0p		200J	PE	TO72 DG
19	3N178	100m	5.5Δ	10*	75	75Δ	20m	1 0m	3 0m#							900	3.5p#	666u	200S	☑*	TO72 DM
20	3N179	100m	6.0Δ	10*	60	60Δ	20m	1.0m	3.0m#							1.0k	4.5p#	666u	200S	☑*	TO72 DM
21	3N180	100m	6.0Δ	10*	40	40Δ	20m	1.0m	3.0m#							1.2k	5.0p#	666u	200S	☑*	TO72 DM
22	MEM556	100m	6 0t	6.0*	50	50	20m	100u	1 0n	1.0n	5.0Ø	20	800u	950uΔ		700 Δ	500ft	1.0m	125J	*	TO72 DM
23	MEM556C	100m	6.0t	6 0*	45	45	20m	100u	10n	1 0n	5 0Ø	20	700u	950uΔ		700 Δ	700ft	1.3m	100J	*	TO72 DM
24▼#	uPA33A▼	100m	5 5Δ	10*	30Δ		20m			10p		10	1.0m	2.0mΔ		500 †	20p#	2.0m	75	*	TO99 PW
25	MEM550F	112m	6.0t	6.0*	30	30	25m	100u	10n	1.0n	10	10	500u			250 Δ	1.1pt*	1.1m	125J	§*	TO89
26	MEM954▼	112m	5 0Δ	5.0*	35	40	50m	100u	1 0n	300p	.50Ø	10	700u	1.4mΔ		100 Δ		1.1m	125J	*	TO77 PY
27	MEM954A▼	112m	5.0Δ	5.0*	35	40	50m	100u	1 0n	100p	.50Ø	10	700u	1.4mΔ		100 Δ		1.1m	125J	*	TO77 PY
28	MEM954B▼	112m	5 0Δ	5.0*	35	40	50m	100u	300p	100p	.50Ø	10	700u	1.4mΔ		100 Δ		1.1m	125J	*	TO77 PY
29	MEM955▼	112m	5.0Δ	5.0*	35	40	50m	100u	1 0n	4.0p	.50Ø	10	700u	1.4mΔ		100 Δ		1.1m	125J	*	TO77 PY
30	MEM955A▼	112m	5.0Δ	5.0*	35	40	50m	100u	1.0n	4 0p	.50Ø	10	700u	1.4mΔ		100 Δ			125J	*	TO77 PY
31	MEM955B▼	112m	5.0Δ	5.0*	35	40	50m	100u	300p	2.0p	.50Ø	10	700u	1.4mΔ		100 Δ		1.1m	125J	*	TO77 PY
32	2N3385	150m	5 0	5.0		30	100m	50m	30m%	15n	0.0	10	7.5m	13mt		.18kt	5 0pΔ	1.0m	200S		W2 DA
33	3N151▼	162m	6.0Δ	10*	30	30Δ	25m		3.0m		2.0Ø	10	500u%	3.0m%	120u		12p#	1.6m	150S	*	TO77 PY
34	MEM550C	170m	6.0t	6.0*	25	25	25m	100u	10n	4.0p	10	10	500u			400 %	4 0pt	2.2m	100J	§*	TO77 PY
35	MEM551C*	170m	6 0t	6 0*	25	25	25m		10n	10p	10	10	500u			400 %	4.0pt	2.2m	100J	§*	TO77 PY
36	MEM520C	175m	6 0t	6.0*	25	25	50m		10n	3.0p	10	10	1.0m			150 Δ	4.0pt	2.3m	100J	*	TO72 DM
37	UC410	180mt	4.0	20		30Δ			6 0mΔ	10p	0.0	20	2.2m			500	8.0p		200J	PE	TO72 DG
38	2N3882	200m	3.0Δ	15*	30	20	30m	100p	25m	100p	1 0Ø	15	1.0m%	2.5m%	25u%		3.0p#	2 0m	200S	*Ø	TO72 DP
39	2N4342	200m	5.5t	10Δ	25Δ	25Δ		50m	12mΔ	10n	0.0	10	2.0m	6.0m	75u	700 †	20p#	2.0m	125J	Ø	R124b DB
40	2N4343	200m	10t	10Δ	25Δ	25Δ		50m	30mΔ	10n	0.0	10	4.0m	8.0m	100u	350 †	20p#	2.0m	125J	Ø	R124b DB
41	2N4360	200m	10t	10Δ	20Δ	20Δ		50m	30mΔ	10n	0.0	10	2.0m	8.0m	100u	700 †	20p#	2.0m	125J	Ø	R124b DB
42	2N5033	200m	2.5t	10Δ	20	20		50m	3.5mΔ	10n	0.0	10	1.0m	5.0m	20u%	1.3kt	25p#	2.0m	125J		R124 aDB
43	2N5265	200m	3.0t	15	60	60	20m	10m	1.0m	2.0n	0 0	15	.90m	2.7m	75u		7.0p#	1.3m	200S	#Ø	TO72 DH
44	2N5266	200m	3.0t	15	60	60	20m	10m	1.6m	2.0n	0.0	15	1.0m	3.0m	75u		7.0p#	1.3m	200S	#Ø	TO72 DH
45	2N5267	200m	6.0t	15	60	60	20m	10m	3.0m	2.0n	0.0	15	1.5m	3.5m	75u		7.0p#	1.3m	200S	#Ø	TO72 DH
46	2N5268	200m	6.0t	15	60	60	20m	10m	5.0m	2.0n	0.0	15	2.0m	4.0m	75u		7.0p#	1.3m	200S	#Ø	TO72 DH
47	2N5269	200m	8.0t	15	60	60	20m	10m	8.0m	2.0n	0.0	15	2.2m	4.5m	75u		7.0p#	1.3m	200S	#Ø	TO72 DH
48	2N5270	200m	8.0t	15	60	60Δ	20m	10m	14mΔ	2.0n	0.0	15	2.5m	5.0m	75u%		7.0p#	1.3m	200S	#Ø	TO72 DG
49	2N5797	200m	4.0t	15		40		10m	100uΔ	3.0n	0.0	15	60m	225mt	1.0u%		5.0p#	2.0m	150S	#	TO92 DD
50	2N5798	200m	6.0t	15		40		10m	400uΔ	3.0n	0.0	15	100m	400mt	2.5u%		5.0p#	2.0m	150S	#	TO92 DD
51	2N5799	200m	8.0t	15		40		10m	1.0mΔ	3.0n	0.0	15	160m	500mt	5.0u%		5.0p#	2.0m	150S	#	TO92 DD
52	2N5800	200m	9.0t	15		40		10m	2 0mΔ	3.0n	0.0	15	250m	700mt	10u%		5.0p#	2.0m	150S	#	TO92 DD
53#	BF320A	200m	8.0	10	15	15		10m	4 5m	20n	0 0	10	800u	5 0m	200u%		32p	2.0m	150S	PEt	TO92 DA
54#	BF320B	200m	8.0	10	15	15		10m	8.5m	20n	0.0	10	800u	5.0m	200u%		32p	2.0m	150S	PEt	TO92 DA
55#	BF320C	200m	8.0	10	15	15		10m	15m	20n	0.0	10	800u	5.0m	200u%		32p	2.0m	150S	PEt	TO92 DA
56	HEP803-RT	200m		40		40	20m		7.0m	2 0n			1 0k						175J		TO72 DG
57	MEM560C	200m	3.5Δ	3.5*	30	30	50m	100u	10n	1.0n	5.0Ø	10	2.0m	3.0mΔ		175 Δ	11p#	2.6m	100J	*	TO72 DM
58	MEM816	200m	5.0Δ	10*	30	30	50m	100u	10n	1.0n	5.0Ø	10	2.0m	3.0mΔ		300 %	5.0p#	3.3m	85J	Δ*	W105 EJ
59	MFE3003	200mΔ	4.0Δ	10*	15	20	30m		10n	100p						200 %	5.0p#	1.3m	175J	*☑	TO72 DW
60	MFE4007	200m	3.0t	15Δ	40	40	20m	10m	1 0m	2.0n	0.0	15	900u%	2.7m%	75u%		7.0p#	1.3m	175J	#	TO72 DR
61	MFE4008	200m	3.0t	15Δ	40	40	20m	10m	1.6m	2.0n	0.0	15	1.0m%	3.0m%	75u%		7.0p#	1.3m	175J	#	TO72 DR
62	MFE4009	200m	6.0t	15Δ	40	40	20m	10m	3.0m	2.0n	0.0	15	1.5m%	3.5m%	75u%		7.0p#	1.3m	175J	#	TO72 DR
63	MFE4010	200m	6.0t	15Δ	40	40	20m	10m	5.0m	2.0n	0.0	15	2.0m%	4.0m%	75u%		7.0p#	1.3m	175J	#	TO72 DR
64	MFE4011	200m	8.0t	15Δ	40	40	20m	10m	8 0m	2.0n	0.0	15	2.2m%	4.5m%	75u%		7.0p#	1.3m	175J	#	TO72 DR
65	MFE4012	200m	8.0t	15Δ	40	40	20m	10m	14m	2.0n	0.0	15	2 5m%	5.0m%	75u%		7.0p#	1.3m	175J	#	TO72 DR
66	3N167t	225m	6.0Δ	10*	30	30Δ	50m	100u	1.0u							20 %	35p#	2.2m	150S	*☑	TO72 DM
67	3N168t	225m	6.0Δ	10*	25	25Δ	50m	100u	1.0u							40 %	35p#	2.2m	150S	*☑	TO72 DM
68#	3SJ11A	225m	3.5t	*	30	40	50m		10nΔ	10p	1 0Ø	10	500u			500 †	8.0p#*	3.0m	150S	PL*	TO72 DR
69	M103	225m	5.5Δ	*	30	30	50m	100u		100p						130 %	500f☑	2.3m	125J	*Δ	TO72 DM
70	M104	225m	6 0Δ	*	30	30	50m	100u		100p						1.2k	500ft	2 3m	125J	*	TO72 DM
71	M113	225m	3.0Δ	*	30	30	50m	100u		100p						200 †	300f☑	2.2m	125J	*	TO72 DM
72	M114	225m	4 5Δ	*	40	40	50m	100u	8.0m	100p	10	10	2.0m			240 %	4.0pt	2.2m	125J	Δ*	TO72 DM
73	MEM511	225m	6.0Δ	6.0*	30	30	50m	100u	10n	1.0n	10	10	1.0m			300 %	3 0pt	2.2m	125J	Δ*	TO72 DM
74	MEM511C	225m	6.0Δ	6.0*	25	25	50m	100u	10n	1 0n	10	10	1.0m			150 Δ	4.0pt	2.3m	125J	Δ*	TO72 DM
75	MEM520	225m	6.0t	6.0*	30	40	50m		10n	3.0p	10	10	1.0m			150 Δ	3.0pt	2.2m	125J	*	TO72 DM
76	MEM550	225m	6.0t	6.0*	30	30	25m	100u	10n	1.0p	10	10	500u			250 Δ	1.1pt*	2.2m	125J	§*	TO77 PY
77	MEM551*	225m	6.0t	*	30	40	25m		10n	1 0p	10	10	500u			250 Δ	1.1pΔ*	2.2m	125J	*	TO77 PY
78	MEM561	225m	3 0Δ	3.0*	30	30Δ	50m		5.0n	2.0p	10Ø	10	2.0m	3.5mΔ		150 Δ	9.0p#	2.2m	125J	*	TO72 DM
79	MEM561C	225m	3.0Δ	3 0*	25		50m		10n	3 0p	10Ø	10	2.0m	3.5mΔ		150 Δ	9.0p#	2.2m	125J	*	TO72 DM
80	MEM817	225m	5.5Δ	20*	45	200			3.0n	1.0p	10	10	1.0m	2.0mΔ		350 %	6.0p#	2.2m	125J	*	TO72 DM
81	MEM823	225m	5.5Δ	*	45		3 0m		3 0n	1.0p	10	10	1.0m%	2.0mΔ		350 Δ	6.0p#	2.2m	125J	*	TO18 EP
82	2N4353t	250m	5.0Δ	10*	30	30	100m	10u	5 0n		0.0	10	1.0m	4.0m	350u	300 †	12p#	2.0m	125S		TO72 DM
83	2N5508▼	250m	4.0t	10		30		200u	7.0m	.25n	0.0	10	1.0m	3.5m	60u%		16p#	2.0m	150S	#Ø	L21
84	2N2606	300m	4.0	5.0		30			.50m	1.0n	0.0	5.0	.11m				6.0p#	2.0m	200S		TO18 DAØ
85	JAN2N2606	300m	4.0t	5.0		30			500u	750p	0.0	5.0	110u	600u			6.0p#	1.7m	200S	#	TO18 DAØ
86	2N2607	300m	4.0	5.0		30			1.5m	3.0n	0.0	5.0	.33m				10p#	2.0m	200S		TO18 DAØ
87	JAN2N2607	300m	4.0t	5.0		30			1.5m	2.2n	0.0	5.0	330u	1.0m			10p#	1.7m	200S	#	TO18 DAØ
88	2N2608	300m	4 0	5.0		30			4.5m	10n	0.0	5.0	1.0m				17p#	2.0m	200S		TO18 DAØ
89	JAN2N2608	300m	4.0t	5.0		30			4.5m	7 5n	0.0	5.0	1.0m	2.5m			17p#	1.7m	200S	#	TO18 DAØ
90	2N2609	300m	4.0	5.0		30			10m	30n	0.0	5.0	2 5m				30p#	2.0m	200S		TO18 DAØ
91	JAN2N2609	300m	4.0t	5.0		30			10m	22n	0.0	5.0	2.5m	6 2m			30p#	1.7m	200S	#	TO18 DAØ
92	2N2841	300m	1.7	5.0		30			.13m	1.0n	0.0	5.0	.06m				6p#%	2.0m	200S		TO18 DAØ
93	2N2842	300m	1.7	5.0		30			.33m	3.0n	0.0	5.0	.18m				10p#%	2.0m	200S		TO18 DAØ
94	2N2843	300m	1.7	5.0		30			1.0m	10n	0.0	5 0	.54m				17p#%	2.0m	200S		TO18 DAØ
95	2N2844	300m	1.7	5.0		30			2.2m	30n	0.0	5.0	1.4m				30p#%	2.0m	200S		TO18 DAØ
96	2N3112	300m	4.0	5.0		20	10m	10m	.18mΔ	.05n	0.0	5 0	.05m	.12m			3.5p#	2.0m	200S		TO18 DG§
97	2N3329	300m	5.0t	15		20		10m	3.0m	10n	1Ø	10	1.0m	2 0m	20u%	1.0k	20p#%	2.0m	200S		TO72 DG
98	JAN2N3329	300m	5.0t	15		20		10m	3.0m	10n		10	1.0m	2.0m	20u	1.0k	20p#	2.0m	200S	#Ø	TO72 DG
99	2N3330	300m	6.0t	15		20		10m	6.0m	10n	2Ø	10	1.5m	3.0m	40u%	.80k	20p#%	2.0m	200S		TO72 DG
100	JAN2N3330	300m	6.0t	15		20		10m	6 0m	10n		10	1.5m	3.0m	40u	800	20p#	2.0m	200S	#Ø	TO72 DG
101	2N3331	300m	8.0t	15		20		10m	15m	10n	5Ø	10	2.0m	4.0m	100u%	.60k	20p#%	2.0m	200S		TO72 DG
102	JAN2N3331	300m	8.0t	15		20		10m	15m	10n		10	2.0m	4.0m	100u	600	20p#	2.0m	200S	#Ø	TO72 DG
103	2N3332	300m	6.0t	15		20		10m	6.0m	10n	1Ø	10	1.0m	2 2m	20u%		20p#%	2.0m	200S		TO72 DG
104	JAN2N3332	300m	6.0t	15		20		10m	6.0m	10n		10	1.0m	2.2m	20u	800	20p#	2.0m	200S	#Ø	TO72 DG
105	2N3376	300m	5.0	5.0		30	100m	50m	6m%Δ	3.0n	0.0	10	.80m	2 3mt		1.5kt	3.0pΔ	2.0m	200S		TO72 DG
106	2N3378	300m	5.0	5.0		30	100m	50m	6m%Δ	3.0n	0 0	10	1.5m	2 3mt		.75kt	3.0pΔ	2.0m	200S		TO72 DG
107	2N3380	300m	9.5	5.0		30	100m	50m	20m%Δ	3.0n	0 0	10	1.5m	3mt		.60kt	3.0pΔ	2.0m	200S		TO72 DG
108	2N3382	300m	5.0	5.0		30	100m	50m	30m%	15n	0.0	10	4.5m	13mt		.30kt	6.0pΔ	2.0m	200S		TO72 DG
109	2N3384	300m	5.0	5 0		30	100m	50m	30m%	15n	0.0	10	7.5m	13mt		.18kt	6.0pΔ	2.0m	200S		TO72 DG
110	2N3386	300m	9.5	5.0		30	100m	50m	50m%Δ	15n	0 0	10	7.5m	15mt		.15kt	6.0pΔ	2.0m	200S		TO72 DG

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

6. SILICON FIELD EFFECT TRANSISTORS - P CHANNEL

IN ORDER OF (1) DISSIPATION
(2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	Igss@ Vgs>Vp &Vds=0 (A)	TEST COND Vgs (V)	TEST COND Vds (V)	PARAMETERS @25°C COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C (°C)	MAX TEMP	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N3578	300m	4.0†	5.0		20	50m	50m	4.5m		0.0	5.0	1.2m	3.5m	15u%		65p%	2.0m	200S		TO18	DAØ
2	2N3909	300m	8.0†	10Δ	20	20		10m	15m	10n	0.0	10	1.0m	5.0m	100u%		32p#	2.0m	200S		TO72	DG
3	2N3909A	300m	8.0	10	20	20			15m	10n	0.0	10	2.2m	5.0m	100u		9p#	2.0m	200S	#	TO72	DG
4	2N3993	300m		Δ	25	25		10m	10m		0.0	10	6.0m	12m			16p#	2.0m	200S		TO72	DG
5	2N3993A	300m			25	9.5			10mΔ%	1.2n	0.0	10	7.0m	12m		.15k%	12p#	2.0m	200S	☑#	TO72	DG
6	2N3994	300m		Δ	25	25		10m	2.0m		0.0	10	4.0m	12m			16p#	2.0m	200S		TO72	DG
7	2N3994A	300m			25	5.5			2.0mΔ%	1.2n	0.0	10	5.0m	10m		.30k%	12p#	2.0m	200S	☑#	TO72	DG
8	2N4090	300m	3.0†	10Δ	30	20		10m	2.5m	.10n		10	.50m	.90m	20u		10p#	1.7m	200C	Ø	TO72	DH
9	2N4352†	300m	5.0Δ	10*	30	30	30m		10n	10p						600	5.0p#	1.7m	200S	☑	TO72	DR
10	2N4381	300m	5.0†	15Δ	25	25			12m	1.0n	0.0	15	2.0m	6.0m	75u%	.70k%	20p#	2.0m	175J		TO18	DG
11	2N4382	300m	9.0†	15Δ	25	25			30m	1.0n	0.0	15	4.0m	8.0m	100u%	.35k%	20p#	2.0m	175J		TO18	DG
12	2N5020	300m	1.5†	15Δ	25	25		50m	1.2m	1.0n	0.0	15	1.0m	3.5m	20u	1.0k†	25p#	2.0m	175J	Ø	TO18	DAØ
13	2N5021	300m	2.5†	15Δ	25	25		50m	3.5m	1.0n	0.0	15	1.5m	5.0m	20u	1.3k†	25p#	2.0m	175J	Ø	TO18	DAØ
14	2N5471	300m	4.0†	15		40			.06mΔ%	.50n	0.0	15	.06m	.18m†	1.0u*		5p#	2.0m	200S	Ø#	TO72	DG
15	2N5472	300m	4.0†	15		40			120uΔ%	500p	0.0	15	90u	225u†	1.0u*		5.0p#	2.0m	200S	#Ø	TO72	DG
16	2N5473	300m	6.0†	15		40			.25mΔ%	.50n	0.0	15	.12m	.30m†	2.5u*		5p#	2.0m	200S	Ø#	TO72	DG
17	2N5474	300m	7.0†	15		40			.5mΔ%	.50n	0.0	15	.16m	.40m†	2.5u*		5p#	2.0m	200S	Ø#	TO72	DG
18	2N5475	300m	8.0†	15		40			1mΔ%	.50n	0.0	15	.20m	.50m†	5.0u*		5p#	2.0m	200S	Ø#	TO72	DG
19	2N5476	300m	9.0†	15		40			2mΔ%	.50n	0.0	15	.26m	.65m†	10u*		5p#	2.0m	200S	Ø#	TO72	DG
20	3N89Ø	300m	4.0	5.0		30	50m		2.5m	5.0n	0.0	5.0	.45m	1.3m			.90pØ	2.0m	200S		TO72	DUØ
21	3N155†	300m	3.2Δ	10*	35	50	30m		1.0n	1.0n						600 †	5.0p#	2.0m	175J	*☑	TO72	DR
22	3N155A†	300m	3.2Δ	10*	35	50	30m		250p	1.0n						400 †	5.0p#	2.0m	175J	*☑	TO72	DR
23	3N156†	300m	5.0Δ	10*	35	50	30m		1.0n	1.0n						600 †	5.0p#	2.0m	175J	*☑	TO72	DR
24	3N156A†	300m	5.0Δ	10*	35	50	30m		250p	1.0n						400 †	5.0p#	2.0m	175J	*☑	TO72	DR
25	3N157	300m	3.2Δ	15*	35	50	30m		1.0n	10p	2.0Ø	15	1.0m%	4.0m%	60u%		5.0p#	2.0m	175J	*	TO72	DR
26	3N157A	300m	3.2Δ	15*	50	50	30m		250p	10p	2.0Ø	15	1.0m%	4.0m%	60u%		5.0p#	2.0m	175J	*	TO72	DR
27	3N158	300m	5.0Δ	15*	35	50	30m		1.0n	10p	2.0Ø	15	1.0m%	4.0m%	60u%		5.0p#	2.0m	175J	*	TO72	DR
28	3N158A	300m	5.0Δ	15*	50	50	30m		250p	10p	2.0Ø	15	1.0m%	4.0m%	60u%		5.0p#	2.0m	175J	*	TO72	DR
29	3N165▼	300m	5.0Δ	15*	40	40	50m		30m	10p	10Ø	15	1.5m	3.0m	300u	300	3.0p#	2.4m	200S	Δ*	TO99	PU
30	3N166†	300m	5.0Δ	15*	40	40	50m		30m	10p	10Ø	15	1.5m	3.0u	300u	300	3.0p#	2.4m	200S	*	TO99	PU
31	3N181†	300m	4.0Δ	10*	30	30Δ	100m	100u	500p							40 %	25p#	2.4m	200S	*☑	TO72	DM
32	3N182†	300m	5.0Δ	10*	30	30Δ	100m	100u	2.5n							60 %	25p#	2.4m	200S	*☑	TO72	DM
33	3N183†	300m	6.0Δ	10*	25	25Δ	100m	100u	10n							75 %	30p#	2.4m	200S	*☑	TO72	DM
34	3N184†	300m	3.0Δ	10*	35	35Δ	50m	1.0m	20m#Ø							150	9.0p#	2.4m	200S	☑*	TO72	DM
35	3N185†	300m	3.0Δ	10*	30	30Δ	50m	1.0m	15m#Ø							175	10p#	2.4m	200S	☑*	TO72	DM
36	3N186†	300m	3.5Δ	10*	25	25Δ	50m	1.0m	10m#Ø							200	11p#	2.4m	200S	☑*	TO72	DM
37	3N188▼	300m	5.0Δ	15*	40	40Δ	50m	1.0m	200p		10Ø	15	1.5m	4.0m	300u%	300 %	4.5p#	2.4m	200S	*Δ	TO99	PJ
38	3N189*	300m	5.0Δ	15*	40	40Δ	50m	1.0m	200p		10Ø	15	1.5m	4.0m	300u%	300 %	4.5p#	2.4m	200S	*Δ	TO99	PJ
39	3N190▼	300m	5.0Δ	15*	40	40	50m		200p	10p	10Ø	15	1.5m	4.0m	300u%	300 %	4.5p#	2.4m	200S	*Δ	TO99	PJ
40	3N191*	300m	5.0Δ	15*	40	40	50m		200p	10p	10Ø	15	1.5m	4.0m	300u%	300 %	4.5p#	2.4m	200S	*Δ	TO99	PJ
41	3N207	300m	6.0Δ	15*	25	25	100m		10n	4.0p						400	4.0p#	2.0m	200S	*☑	TO76	PJ
42	3N208	300m	6.0Δ	15*	25	25Δ	100m	10m	10n							400	4.0p#	2.0m	200S	*☑	TO76	PJ
43	3N218†	300m	3.5Δ	10*	25	25Δ	700m	1.0m	20n							20 %	50p#	2.4m	175S	☑*	TO72	DM
44	FT3909	300m	8.0†	10	20	20		10m	15m	10n	0.0	10	1.0m	5.0m	100u		32p#	2.0m	125J	DPL	TO18	DAØ
45	MEM560	300m	3.0Δ	3.0*	35	35	50m	100u	5.0n	500p	5.0Ø	10	2.0m	3.5mΔ		100 Δ	9.0p#	3.0m	125J	*	TO72	DM
46	MEM575	300m	3.5Δ	*	25	25	300m	1.0m	20n	2.0n	5.0	10	10m			13 †	50p	2.4m	150J	*	TO72	DM
47	MEM806	300m	5.5†	5.5*	40	40			1.0n	3.0p	10Ø	20	2.0m			300 %	2.0pt	2.4m	150A	*	TO72	DM
48	MEM806A	300m	5.5†	5.5*	40	40			100p	1.0p	10Ø	20	2.0m			300 %	2.0pt	2.4m	150A	*	TO72	DM
49	MEM807	300m	5.5†	5.5*	40	40			1.0n	200p	10Ø	20	2.0m			300 %	2.0pt	2.4m	150A	*	TO72	DM
50	MEM807A	300m	5.5†	5.5*	40	40			100p	50p	10Ø	20	2.0m			300 %	2.0pt	2.4m	150A	*	TO72	DM
51	MEM814	300m	3.0Δ	3.0*	35	35	50m	100u	5.0n	500p	5.0Ø	10	2.0m	3.5mΔ		80 Δ	7.0p#	3.0m	125J	☑*	TO72	DM
52	MFE823	300m	6.0	*	25	10	30m		20n	1.0p	2.0Ø	10	1.0m%				6.0p#	1.7m	200J	*	TO18	EP
53	P1069E	300m	4.0†	10	20	20Δ			5.0m	3.0n	0.0	10	3.0m	8.0m	100u%	600 %	40p#	2.5m	125J	Ø	R97b	DA
54	P1086E†	300m	10†	15	30	30		10m	10m	2.0n	0.0	10	3.0m	8.0m	100u%	75 %	45p#	2.5m	125J		R97b	DB
55	P1087E†	300m	5.0†	15	30	30		10m	5.0m	2.0n	0.0	10	3.0m	8.0m	100u%	150 %	45p#	2.5m	125J		R97b	DB
56	P1117E	300m	4.0†	5.0	25	25	100m	10m	10mΔ	1.0n	0.0	10	3.5m			350	35p	1.7m	200S	Ø	TO106	DC
57	P1118E	300m	4.0†	5.0	25	25	100m	10m	5.0mΔ	1.0n	0.0	10	2.5m			700	35p	1.7m	200S	Ø	TO106	DC
58	P1119E	300m	4.0†	5.0	15	15	100m	10m	10mΔ	1.0n	0.0	10	1.5m			1.0k	35p	1.7m	200S	Ø	TO106	DC
59	TP5114	300m	10†	15	30	30	100m	10m	90mΔ	2.0n						75	45p	1.7m	200S	Ø	TO18	DAØ
60	TP5115	300m	6.0†	15	30	30	100m	10m	60mΔ	2.0n						100	45p	1.7m	200S	Ø	TO18	DAØ
61	TP5116	300m	4.0†	15	30	30	100m	10m	25mΔ	2.0n						150	45p	1.7m	200S	Ø	TO18	DAØ
62	U110	300m	6.0	10		20		30m	1.0m	4.0n	0.0	10	110u				6.0p#	2.0m	150S		TO18	DAØ
63	U112	300m	6.0	10		20		30m	9.0m	10n	0.0	10	1.0m				17p#	2.0m	150S		TO18	DAØ
64	U133	300m	4.0	5.0	50	50		50m	1.5m	3.0n	0.0	5.0	.33m	.53mΔ			10p%	2.0m	175A	D	TO18	DAØ
65	U146	300m	6.0	10		20		30m	25u#	10n	0.0	10	60u				6.0p#	2.0m	150S		TO18	DAØ
66	U147	300m	6.0	10		20		30m	65u#	20n	0.0	10	180u				10p#	2.0m	150S		TO18	DAØ
67	U148	300m	6.0	10		20		30m	200u#	60n	0.0	10	540u				17p#	2.0m	150S		TO18	DAØ
68	U149	300m	6.0	10		20		30m	440u#	200n	0.0	10	1.4m				30p#	2.0m	150S		TO18	DAØ
69	U168	300m	5.0	10		20		50m	6.0mΔ	30n	0.0	5.0	.80m				65p#	2.0m	150S	#	TO18	DA
70	U300	300m	10	15		40		50m	90m	100p	15Ø	15	8.0m	12m		60 %	20p#	1.7m	150S	#	TO18	DAØ
71	U301	300m	6.0	15		40		50m	60m	100p	7.0Ø	15	7.0m	11m		100 %	20p#	1.7m	150S	#	TO18	DAØ
72	UC401	300m	8.0	20		30			8.0m	100p						250 †	8.0p#			PE	TO72	
73	UC805	300m	8.0	20		25			25m#	1.0n	0.0	20	1.0m	10m		1.0k†	12p#			PEØ	TO72	
74	UC814	300m	8.0	20		25			15m	2.0n	0.0	20	.80m	5.0m		1.3k†	16p#			PLØ		
75	UC851	300m	6.0	15		20			9.0m	4.0n	0.0	15	1.0m				17p#			PL	TO18	
76	UC853	300m	6.0	20		25			70u#	4.0p	0.0	20	180u			10p					TO18	
77	UC854	300m	6.0	20		25			200u#	15n	0.0	20	540u				17p#	2.0m	200		TO18	DA
78	UC855	300m	6.0	20		25			440u#	25n	0.0	20	1.4m				25p#	2.0m	200		TO18	DA
79	UC2766*	300m	5.0Δ	15*	30	30Δ	50m		30mØ	10p		15	1.0m	4.0m	300u%	300 %	3.5p#	2.4m	150J	PLΔØ		
80	2N5460	310m	6.0†	15		40			5.0mΔ	5.0n	0.0	15	1.0m	4.0m	75u		7p#	2.8m	150S	Ø#	TO92	DB
81	2N5461	310m	7.5†	15		40			9.0mΔ	5.0n	0.0	15	1.5m	5.0m	75u		7p#	2.8m	150S	Ø#	TO92	DB
82	2N5462	310m	9.0†	15		40			16mΔ	5.0n	0.0	15	2.0m	6.0m	75u		7p#	2.8m	150S	Ø#	TO92	DB
83	2N5463	310m	6.0†	15		60			5.0mΔ	5.0n	0.0	15	1.0m	4.0m	75u		7p#	2.8m	150S	Ø#	TO92	DB
84	2N5464	310m	7.5†	15		60			9.0mΔ	5.0n	0.0	15	1.5m	5.0m	75u		7p#	2.8m	150S	Ø#	TO92	DB
85	2N5465	310m	9.0†	15		60			16mΔ	5.0n	0.0	15	2.0m	6.0m	75u		7p#	2.8m	150S	Ø#	TO92	DB
86	A5T5460	310m	6.0†	15		40		10m	5.0m%	5.0n	0.0	15	1.0m	4.0m	75u%	2.0k%	7.0p#	2.8m	150S	PLØ	R203	DB
87	A5T5461	310m	7.5†	15		40		10m	9.0m%	5.0n	0.0	15	1.5m	5.0m	75u%	2.0k%	7.0p#	2.8m	150S	PLØ	R203	DB
88	A5T5462	310m	9.0†	15		40		10m	16m%	5.0n	0.0	15	2.0m	6.0m	75u%	2.0k%	7.0p#	2.8m	150S	PLØ	R203	DB
89	HEPF1035-RT	310m		40		40	20m		14m	10n			1.0m						135J		TO92	DB
90	MPF161	310m	8.0†	15Δ	40	40	20m	10m	14m	10n	0.0	15	800u%	6.0m%	75u%		7.0p#	2.8m	135J	#†	TO92	DB
91	2N3608	350m	6.0Δ	*	25	25			7.0m	25p						400 %		15m	125S	☑	TO33	DK
92	2N3609Ø	350m	6.0Δ	*	25	25			3.2m	20p						1.0k%		15m	125S		TO77	PT
93	2N4065†	350m	6.0Δ	15*	30	25	20m		12m		15	15	400u		100u%	1.5k%	4.5p#	2.3m	175J	☑	TO72	DM
94	2N4120†	350m	6.0Δ	15*	30	25	20m		12m		15	15	700u		100u%	1.0k%	4.5p#	2.3m	175J	☑	TO72	DM
95	3N145†	350m	6.0Δ	20*			20m	10m	3.0m#							1.5k†	1.0pØ	2.3m	175J	*☑	TO72	DM
96	3N146†	350m	6.0Δ	20*			20m	10m	3.0m#							1.5k†	1.0pØ	2.3m	175J	*☑	TO72	DM
97	E174†	350m	10	15		30		50m	100m%	1.0n						85 %	40 *#	3.5m	125A	#☑	R187	DA
98	E175†	350m	6.0	15		30		50m	60m%	1.0n						125 %	40 *#	3.5m	125A	#☑	R187	DA
99	E176†	350m	4.0	15		30		50m	25m%	1.0n						250 %	40 *#	3.5m	125A	#☑	R187	DA
100	E177†	350m	2.2	15		30		50m	20m%	1.0n						300 %	40p*#	3.5m	125A	#☑	TO106	DA
101	E270	350m	2.0	15		30		50m	15m%	200p	0.0	15	6.0m†	15m†			20 *#	3.5m	125A	#†	R187	DA
102	E271	350m	4.5	15		30		50m	50m%	200p	0.0	15	8.0m†	18m†			20 *#	3.5m	125A	#†	R187	DA
103	J174	350m	10	15		30		50m	100m%	1.0n						85 %	40p#*	3.5m	125A	#Δ	TO92	DA
104	J175	350m	6.0	15		30		50m	60m%	1.0n						125 %	40p#*	3.5m	125A	#Δ	TO92	DA
105	J176	350m	4.0	15		30		50m	25m%	1.0n						250 %	40p#*	3.5m	125A	#Δ	TO92	DA
106	J177	350m	2.2	15		30		50m	20m%	1.0n						300 %	40p#*	3.5m	125A	#Δ	TO92	DA
107	J270	350m	2.0	15		30		50m	15m%	200p	0.0	15	6.0m†	15m†	200u%		20p#*	3.5m	125A	#†	TO92	DA
108	J271	350m	4.5	15		30		50m	50m%	200p	0.0	15	8.0m†	18m†	500u%		20p#*	3.5m	125A	#†	TO92	DA
109	MPF970†	350m	12†	15Δ	25	30			60m%	1.0n						100	12p#	2.8m	150A	#	TO92	DD

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	& Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0	TEST COND Vgs (V)	Vds (V)	PARAMETERS @25°C COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	2N3796	200m	4.0†	10	25	10	20m		3.0m	1.0p	0.0	10	.90m	1.8m	25u%		7.0p#	1.1m	200S		TO18 DA☑
2	2N3797	200m	7.0†	10	20	10	20m		6.0m	1.0p	0.0	10	1.5m	3.0m	60u%		8.0p#	1.1m	200S		TO18 DA☑
3	2N5163	200m	8.0†	15Δ	25	25		50m	40m	10n	0.0	15	2.0m	9.0m	200u%	.50k%	20p#	2.0m	125J	Ø	TO106 DB
4	2N5716	200m	3.0†	15		40Δ			250uΔ%	1.0n	0.0	15	200u	1.0m	25u		5.0p#	2.0m	150S	#	TO92 DD
5	2N5717	200m	5.0†	15		40Δ			1.0mΔ%	1.0n	0.0	15	400u	1.6m	25u		5.0p#	2.0m	150S	#	TO92 DD
6	2N5718	200m	8.0†	15		40Δ			4.0mΔ%	1.0n	0.0	15	500u	2.0m	25u		5.0p#	2.0m	150S	#	TO92 DD
7#	2SK18	200m	3.5	10		4.0Δ		10m	2.8m	100p	0.0	10	800u	3.0m			6.0p	600u	150J	#	
8#	2SK18A	200m	3.5	10		4.0Δ		10m	2.8m	100p	0.0	10	800u	3.0m			6.0p	600u	150J	#	
9#	2SK19	200m	3.0%	10		18		10m	24mΔ	10n	0.0	10	7.0mΔ					2.0m	125J	PEØ	R67a DD
10#	2SK35	200m	1.6	10		20Δ	20m		16mΔ	1.0n	0.0	10	6 3m	15m	200u		15p	3.3m	150S	E#Ø	X153 DA
11#	2SK61	200m	4.0	10		18Δ		10m	10m	10n	0.0	10	9.0mΔ						125J	#	
12#	2SK72	200m	.50†	10		20Δ		10m	6.5m	100p	0.0	10	1.5	6.5				1.6m	150J	PEΔ☑	TO71 PJ
13#	3SK22	200m	5.5	10		18Δ		10m	24m	100n	0.0	10	7.0mΔ				4.5p#	1.6m	150J	ΔØ	TO72 DW
14#	3SK28	200m	5.0	10		15		10m	22m	20n	0.0	10	6.0m	12m			6.0p#	1.6m	150J	ΔØ	TO72 DW
15#	3SK38A	200m	3.0	6.0	20	12	10m		50n	25n									125J	*	
16▼#	BF327	200m†	3.8	10	20	20	100m	10m	55m	10n	4.0	10	12 %	16 Δ			5.0p*	2.6m	150J		W120 EH
17▼#	BF961	200m	4.0†	15Δ	20	30Δ	30m	10m	25m	100n	4.0	15	12				3.7p	1.6m	150S	*♦	
18#	BFR29	200m	4.0†	15			20m		40m	10p	5.0Ø	15	6.0m		400u%		5.0p	2.0m	125J	%Ø	TO72 DW
19#	BFR30	200m	5.0†	10	25	25	10m	5.0m	10m	200p	1.0Ø	10	1.0m	4.0m	40u%		4.0p	1.6m	150J	PE#	X156 DB
20#	BFR31	200m	2.5†	10	25	25	10m	5.0m	5.0m	200p	1.0Ø	10	1.5m	4.5m	25u%		4.0p	1.6m	150J	PE#	X156 DB
21#	BFS28	200m	5.0Δ	20Δ	20	8.0	20m			1.0n	4.0	13	8.0m	13mΔ				1.8m	135S	Ø	TO72 DX
22#	BFW96	200m	4.5	20	30	30	50m		30m			20	1 3m	2.5mΔ			5.0p	2.5m	125J	*	TO72 DH
23#	BSV81	200m		Δ			50m			10p						100 †		2.0m	125S	☑	TO72 DW§
24#	C82A	200m	5.0	50			10m						.03m	.20m	.20u		10p*		150J	☑	R179 DB
25#	C82B	200m	10	50			10m						.03m	.20m	.20u		10p*		150J	☑	R179 DB
26#	C83A	200m	10	50			10m						.03m	.20m	.40u		10p*		150J	☑	R179 DB
27#	C83B	200m	15	50			10m						.03m	.20m	.40u		10p*		150J	☑	R179 DB
28#	C97E	200m	3.0	10		50			11m	50p	0.0	10	3.0m	9.0m			6.0p#*	1.3m	150S	#	TO92 DA
29#	C98E	200m	4.0	10		50			13m	50p	0.0	10	3.5m	8.5m			6.0p#*	1.3m	150S	#	TO92 DA
30	C681	200m	2.5	10Δ	30Δ	30Δ		50m	.40m	10nΔ	0.0	10	.20m	.50m	10u†		3p†*	1.1m	200J	E#	TO18 DD
31	C681A	200m	2.5	10Δ	30Δ	30Δ		50m	.40m	1.0nΔ	0.0	10	.20m	.50m	10u†		3p†*	1.1m	200J	E#	TO18 DD
32	C683	200m	5.0	10Δ	30Δ	30Δ		50m	1.6m	10nΔ	0.0	10	.40m	1.0m	20u†		3p†*	1.1m	200J	E#	TO18 DD
33	C683A	200m	5.0	10Δ	30Δ	30Δ		50m	1.6m	1.0nΔ	0.0	10	.40m	1.0m	20u†		3p†*	1.1m	200J	E#	TO18 DD
34	C685	200m	10	10	30Δ	30Δ		50m	6.0m	10nΔ	0.0	10	.60m	1.5m	60u†		3p†*	1 1m	200J	E#	TO18 DD
35	C685A	200m	10	10Δ	30Δ	30Δ		50m	6.0m	1.0nΔ	0.0	10	.60m	1.5m	60u†		3p†*	1.1m	200J	E#	TO18 DD
36	HEP801-RT	200m			30	20	15m		9.0m%	1.0n			3.0m						125J		TO72 DJ
37	HEP802-RT	200m			25	25		10m	20m%	1.0n			2.0m						125J		TO92 DD
38	IT108	200m	6.0	15	25	25		10m	25m%	1.0n	0.0	15	4.0m	8.0m	100u%		5.0p#	2.0m	125S	PEØ	R97a DB
39	ITE3066	200m	10	30		45Δ		100m	4.0m	1.0n	0.0	30	300u				10p%	2.0m	125J	PE#Ø	TO106 DB
40	ITE3067	200m	5.0	30		45Δ		100m	1.0m	1.0n	0.0	30	250u				10p%	2.0m	125J	PE#Ø	TO106 DB
41	ITE3068	200m	2.5	30		45Δ		100m	250u	1.0n	0.0	30	150u				10p%	2.0m	125J	PE#Ø	TO106 DB
42	ITE4117	200m	1.8†	10		40		50m	90u%	25p		10	60u†				3.0p#	2.0m	125J	PE#	TO106 DB
43	ITE4118	200m	3.0†	10		40		50m	240u%	25p		10	70u†				3.0p#	2.0m	125J	PE#	TO106 DB
44	ITE4119	200m	6.0†	10		40		50m	1.0m%	25p		10	90u†				3.0p#	2.0m	125J	PE#	TO106 DB
45	ITE4338	200m	1.5†	15		40		50m	600u%	500p	0.0	15	500u†			2.5k†	7.0p#	2.0m	125J	PE#Ø	TO106 DB
46	ITE4339	200m	2.5†	15		40		50m	1.5m%	500p	0.0	15	700u†			1.7k†	7.0p#	2.0m	125J	PE#Ø	TO106 DB
47	ITE4340	200m	3.5†	15		40		50m	3.6m%	500p	0.0	15	1.0m†			1.5k†	7.0p#	2.0m	125J	PE#Ø	TO106 DB
48	ITE4341	200m	7.0†	15		40		50m	9.0m%	500p	0.0	15	1.5m†			800 †	7.0p#	2.0m	125J	PE#Ø	TO106 DB
49	ITE4416	200m	7.0†	15	25	25		10m	20m%	200p	0.0	15	3.5m	8.0m†	100u		5.0p#	2.0m	125J	PE#Ø	TO106 DB
50	ITE4867	200m	2.0†	20		35		10m	1.2m%	1.0n	0.0	20	700u		3.0u%		25p#	2.0m	125J	PE#Ø	TO106 DB
51	ITE4868	200m	3.0†	20		35		10m	3.0m%	1.0n	0.0	20	1.0m		6.0u%		25p#	2.0m	125J	PE#Ø	TO106 DB
52	ITE4869	200m	5.0†	20		35		10m	7.5m	1.0n	0.0	20	1.3m		10u%		25p#	2.0m	125J	PE#Ø	TO106 DB
53#	KP350A	200m	15†	15	15	15	30m		3.5m	5 0n	6 0	10	6.0m		6.0p%		6.0p		85A	$	R176g DX
54#	KP350B	200m	15†	15	15	15	30m		3.5m	5.0n	6.0	10	6.0m		6.0p%		6.0p		85A	$	R176g DX
55#	KP350V	200m	15†	15	15	15	30m		6.0m	5.0n	6.0	10	6.0m		6.0p%		6.0p		85A	$	R176g DX
56#	MEF103	200m	60†	15		40Δ			4.5m	100p	0.0	15		1.5m			8.0p	2.0m	125J	Ø	TO106 DB
57#	MEF104	200m	70†	15		50Δ			20m	100p	0.0	15		2.0m			8.0p	2.0m	125J	Ø	TO106 DB
58	MEM712†	200m	2.0Δ	*	25	30			10n	1.0n	2.0Ø	10	2.0m	%		50	6.0p	3.3m	85J	*	W105 EJ
59	MEM712A†	200m	2.0Δ	*	30	30			10n	1.0n	2.0Ø	10	2.0m	%		50 %	6.0p	3.3m	85J	*	W105 EJ
60	MFE3001	200m	8.0†	10$	20	20	20m		5.0mØ	10p	0.0	10	700u	3.5m	100u%		5.0p	1.1m	200J	*	TO72 DG
61	MFE3002	200mΔ	3.0Δ	10*	15	20	30m		10n	100p						100 %	5.0p#	1.4m	175J	☑*	TO72 DW
62	MPF102	200m	8.0†	15	25	25		10m	20m%	2.0n	0.0	15	2.0m	7.5			7.0p#	2.0m	125J	#	TO92 DD
63	MPF103	200m	6.0†	15	25	25	16m	10m	5.0m	1.0n	0.0	15	1.0m	5.0m	50u		7.0p	2.0m	125J	Δ	TO92 DD
64	MPF104	200m	7.0†	15	25	25	16m	10m	9.0m	1.0n	0.0	15	1.5m	5.5m	50u		7.0p	2.0m	125J	Δ	TO92 DD
65	MPF105	200m	8.0†	15	25	25	16m	10m	16m	1.0n	0.0	15	2.0m	6.0m	50u		7.0p	2.0m	125J	Δ	TO92 DD
66	MPF106	200m	4.0†	15	25	25	30m		10m	1.0n	0.0	15	2.5m	6.0m	50u%		5.0p#	2.0m	125J	Ø	TO72 DH
67	MPF107	200m	6.0†	15	25	25	30m		20m	1.0n	0.0	15	4.0m	8.0m	75u%		5.0p#	2.0m	125J	Ø	TO72 DH
68	MPF111	200m	10†	10Δ	20	20		10m	20mΔ%	100n	0.0	10	500u†	3.0mΔ	20u*		4.5p#*	2.0m	125J		TO92 DD
69	MPF112	200m	10†	10Δ	25	25		10m	25mΔ%	100n	0.0	10	1.0m†	7.5m			8.0p#*	2.0m	125J		TO92 DD
70	NF501	200m	8.0†	15	15	15Δ		1.0m	30m%	50n	0.0	10	4.5mΔ	†		180 †	3.0p#*	2.0m	125J	#	TO72 DH
71	NF522	200m	8.0†	15	20	20Δ		1.0m	10m	10n	0.0	15	500u	2.0mΔ			4.0p#*	2.0m	125J	#Ø	TO72 DH
72	NF523	200m	8.0†	15	20	20Δ		1.0m	2.0m	10n	0.0	15	400u	1.2mΔ			4.0p#*	2.0m	125J	#Ø	TO72 DH
73	NF532	200m	8.0†	15	20	20Δ		1.0m	10m	8 0n	0.0	15	500u	2.0mΔ			4.0p#*	2.0m	125J	#Ø	TO18 DBØ
74	NF533	200m	8.0†	15	20	20Δ		1.0m	2.0m	8.0n	0.0	15	400u	1.2mΔ			4.0p#*	2.0m	125J	#Ø	TO18 DBØ
75	PTC151-RT	200m			25	25		10m	20m	1.0n	0.0	15	2.0m%	6.5m%						#	TO92
76#	SES3819	200m	7.5	15	25	25		10m	20m	2.0n	0.0	15	2.0m	6.5m	50m		8.0p	2.0m		†#	TO98 DA
77	SK3116-RT	200m						10m	8.0m				7.5mΔ							#	TO104 EC
78	U183	200m	8.0	15		25		10m	20m	2.0n	0.0	15	1.6m%		50u%		8.0p#	2.0m	150S	#	TO72 DH
79	3N175†	225m	2.0Δ	10*	30	35	50m		5.0n	200p						200 %	5.0p#	1.8m	200S	*☑	TO72 DR
80	3N176†	225m	2.5Δ	10*	25	30	50m		10n	200p						300 %	5.0p#	1.8m	200S	*☑	TO72 DR
81	3N177†	225m	3.5Δ	10*	20	20	50m		25n	200p						500 %	7.0p#	1.8m	200S	*☑	TO72 DR
82	3N192	225m	4.0†	15Δ	20	30Δ	50m		30m	1.0n	10Ø	15	8.0m	24m	400u%		6.0p#	1.8m	150S	*	TO72 DW
83	3N193	225m	4.0†	15Δ	20	30Δ	50m		20m	10n	10Ø	15	6.0m	22m	500u%		7.0p#	1.8m	150S	*	TO72 DW
84	3N242†	225m	2.0	10	25	30Δ	30m		10n							75 †	6.0p#	2.2m	150S		TO72 DR
85	M116	225m	5.0Δ	*	30	30	50m	100u		100p						100 †	7.0p☑	2.2m	125J	*	TO72 DM
86	M117	225m	5.0Δ	*	30	30	50m	100u		1.0p						100 †	7.0p☑	2.2m	125J	*	TO72 DR
87	MEM554	225m	4.0†	20Δ	20	20			30m	100p	4.0	15	10m	13mΔ			5.0p#*	2.2m	125J	§*	TO72 DX
88	MEM554C	225m	4.0†	20Δ	20	10			30m	1.0n	4.0	15	8.0m	11mΔ			5.0p#*	2.2m	125J	§*	TO72 DX
89	MEM557C	225m	4.0†	15Δ	20	10			30m	100p	10Ø	15	6.0m	8.0mΔ		200	5.0p#	2.2m	125J	*	TO72 DW
90	MEM562†	225m	4.0Δ	4.0*	20	10			10n	10p	2.0Ø	10	60m			150 †	4.0p#	2.2m	125J	*	TO72 DR
91	MEM563†	225m	4.0Δ	*	20	30			10n	10p	2.0Ø	10	2.0m			100 %	5.0p#	2.2m	125	*	TO72 DR
92	MEM563C†	225m	4.0Δ	*	20	30			10n	10p	2.0Ø	10	2.0m			150 %	6.0p#	2.2m	125	*	TO72 DR
93	MEM564C	225m	4.0†	20$	20	6.0			30m	10n	10Ø	15	8.0m	12mΔ			8.0p#	2.2m	125J	§*	TO72 DX
94	MEM614	225m	4.0†	15Δ	20	6.0			20m		5.0Ø	15	6.0m	10mΔ			8.0p#	1.8m	150J	§*	TO72 DX
95♦	MEM655	225m	4.0†	15Δ	20	6.0	50m		20m	100n	4.0	15	6.0m	10mΔ		30	7.0p#	1.8m	150J	*Ø	TO72 DW
96	MEM711†	225m	1.5Δ	10	25	30			10n	1.0n	2.0Ø	10	1.0m			100 %	6.0p#	1.8m	150J	*	TO72 DR
97	MEM713	225m	4.0Δ	*	20	10			10n	10p	2.0Ø	10	2.0m			150 %	6.0p#	2.2m	125	*	W28 EJ
98	MMT3823	225m	8.0†	15Δ	30	30		10m	20m%	1.0n	0.0	15	3.0m%	8.0m†	25u*		4.0p#*	2.0m	135J	*Ø	W6 DD
99#	3SK37	230m	3.0†	10$	20†	8.0	25m		10m*	1.0u	5.0Ø	10	7.0m%	9.5mΔ	400u		4.0p#*	2.2m	150S	*$	TO72 DX☑
100	2N3921▼	250m	3.0†	10	50	50	10m	250p		1 0n	0.0	10	1.5u%	7.5u%	35u%		18p#	1.7m	200S	Ø	TO71 PJ
101	2N3922▼	250m	3.0†	10	50	50	10m	250p		1.0n	0.0	10	1.5u%	7.5u%	35u%		18p#	1.7m	200S	Ø	TO71 PJ
102	2N3934▼	250m	3.0†	10	50	50	1.3m	100p		400p	0.0	10	300u%	900u%	10u%		7.0p#	1.7m	200S	Ø	TO71 PJ
103	2N3935▼	250m	3.0†	10	50	50	1.3m	100p		400p	0.0	10	300u%	900u%	10u%		7.0p#	1.7m	200S	Ø	TO71 PJ
104	2N3954*	250mΔ	4.5†	20Δ	50	50		50m	5.0m	.10n	0.0	20	1.0m	3.0m	35u		4.0p#	2.9m	200S	Ø	TO71 PJ
105	2N3954A▼	250mΔ	4.5†	20Δ	50	50		50m	5.0m	.10n	0.0	20	1.0m	3.0m	35u		4p#		200S	Ø	TO71 PJ
106	2N3955*	250mΔ	4.5†	20Δ	50	50		50m	5.0m	.10n	0.0	20	1.0m	3.0m	35u		4.0p#	2.9m	200S	Ø	TO71 PJ
107	2N3955A▼	250mΔ	4.5†	20Δ	50	50		50m	5.0m	.10n	0.0	20	1.0m	3.0m	35u		4.0p#		200S	Ø	TO71 PJ
108	2N3956*	250mΔ	4.5†	20Δ	50	50		50m	5.0m	.10n	0.0	20	1.0m	3.0m	35u		4.0p#	2.9m	200S	Ø	TO71 PJ
109	2N3957*	250mΔ	4.5†	20Δ	50	50		50m	5.0m	.10n	0.0	20	1.0m	3.0m	35u		4.0p#	2.9m	200S	Ø	TO71 PJ
110	2N3958*	250mΔ	4.5†	20Δ	50	50		50m	5.0m	.10n	0.0	20	1.0m	3.0m	35u		4.0p#	2.9m	200S	Ø	TO71 PJ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION
(2) TYPE No.

LINE No.	TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	& Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgs (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	PARAMETERS @25°C TEST COND Vgs (V)	Vds (V)	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUC-TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	2N3824	300m		△	50	50△		10m		100p							6.0p#	2 0m	200S	Ø	TO72 DH
2	2N3966†	300m		△	30	30△		10m	2 0m	100p							6.0p#	1.7m	200S		TO72 DH
3	2N3967	300m	5.0†	20△	30	30		10m	10m	10n	0.0	20	1.6m	2.4m	35u%		5.0p#	1.7m	200S		TO72 DH
4	2N3967A	300m	5.0†	20△	30	30		10m	10m	.10n	0.0	20	1.6m	2 4m	35u%		5.0p#	1.7m	200S		TO72 DH
5	2N3968	300m	3.0†	20△	30	30		10m	5.0m	.10n	0.0	20	1.4m	2 0m	15u%		5 0p#	1.7m	200S		TO72 DH
6	2N3968A	300m	3.0†	20△	30	30		10m	5.0m	10n	0.0	20	1 4m	2 0m	15u%		5.0p#	1.7m	200S		TO72 DH
7	2N3969	300m	1.7†	20△	30	30		10m	2.0m	10n	0.0	20	.95m	1 4m	5.0u%		5.0p#	1.7m	200S		TO72 DH
8	2N3969A	300m	1.7†	20△	30	30		10m	2.0m	.10n	0.0	20	.95m	1.5m	5.0u%		5.0p#	1.7m	200S		TO72 DH
9	2N4117	300m	1.8	10△	40	40	50m	50m	.09m△	.01n	0.0	10	70m%	210m	3 0u		3.0p#	2.0m	175S		TO72 DH
10	2N4117A	300m	1.8†	10△	40	40	50m	50m	90u	1.0p	0 0	10	70u	210u	3.0u%		3.0p#	2.0m	175S		TO72 DH
11	2N4118	300m	3.0	10△	40	40	50m	50m	.24m△	.01n	0.0	10	80m%	250m	5.0u		3.0p#	2.0m	175S		TO72 DH
12	2N4118A	300m	3.0†	10△	40	40	50m	50m	240u	1.0p	0.0	10	80u	250u	5.0u%		3.0p#	2.0m	175S		TO72 DH
13	2N4119	300m	6.0	10△	40	40	50m	50m	.60m△	01n	0.0	10	100m%	330m	10u		3.0p#	2.0m	175S		TO72 DH
14	2N4119A	300m	6.0†	10△	40	40	50m	50m	600n	1.0p	0.0	10	100u	330u	10u%		3.0p#	2.0m	175S		TO72 DH
15	2N4139	300m	8.0†	20△	50	50		10m	11m	1.0n	0.0	20	3.5m	7.0m	35u		18p#	1.7m	200S	Ø	TO18 DBØ
16	2N4220	300m	4.0†	15△	30	30	15m	10m	3.0m	100p	0.0	15	1.0m	4 0m	10u		6.0p#	2.0m	200S		TO72 DJ
17	2N4220A	300m	4.0†	15△	30	30	15m	10m	3.0m	100p	0 0	15	1.0m	4.0m	10u		6.0p#	2.0m	200S	Ø	TO72 DJ
18	2N4221	300m	6.0†	15△	30	30	15m	10m	6.0m	100p	0.0	15	2.0m	5.0m	20u		6.0p#	2.0m	200S		TO72 DJ
19	2N4221A	300m	6.0†	15△	30	30	15m	10m	6.0m	100p	0.0	15	2.0m	5.0m	20u		6.0p#	2.0m	200S	Ø	TO72 DJ
20	2N4222	300m	8.0†	15△	30	30	15m	10m	15m	100p	0.0	15	2.5m	6.0m	40u		6.0p#	2.0m	200S		TO72 DJ
21	2N4222A	300m	8.0†	15△	30	30	15m	10m	15m	100p	0.0	15	2.5m	6.0m	40u		6.0p#	2.0m	200S	Ø	TO72 DJ
22	2N4223	300m	8.0†	15△	30	30	20m	10m	18m%	.25n	0.0	15	3.0m†	7.0m†				2.0m	175J	Ø	TO72 DJ
23	2N4224	300m	8.0†	15△	30	30	20m	10m	20m%	.50n	0.0	15	2.0m†	7.5m†				2.0m	175J		TO72 DJ
24	2N4302	300m	4.0†	20△	30	20		10m	5.0m	1.0n	0.0	20		1.0m	50u%		6.0p#	2.5m	125S	Ø	R97b DB
25	2N4303	300m	6.0†	20△	30	20		10m	10m	1 0n	0.0	20		2.0m	50u%		6 0p#	2.5m	125S	Ø	R97b DB
26	2N4304	300m	10†	20△	30	20		10m	15m	1.0n	0.0	20		1.0m	50u%		6 0p#	2.5m	125S	Ø	R97b DB
27	2N4338	300m	1.0†	15△	50△	50		50m	.60m		0.0	15	.60m	1.8m	50u	2.5kt	7.0p#	10m	200S		TO18 DBØ
28	2N4339	300m	1.8†	15△	50△	50		50m	1.5m	.10n	0.0	15	.80m	2.4m	15u	1.7kt	7.0p#	2.0m	200S		TO18 DBØ
29	2N4340	300m	3.0†	15△	50△	50		50m	3.6m	.10n	0.0	15	1.3m	3.0m	30u	1.5kt	7.0p#	2.0m	200S		TO18 DBØ
30	2N4341	300m	6.0†	15△	50△	50		50m	9.0m	.10n	0.0	15	2.0m	4.0m	60u	.80kt	7.0p#	2.0m	200S		TO18 DBØ
31	2N4351†	300m	5.0△	10*	30	30	30m		10n	10p							5.0p#	1.7m	200S	☑	TO72 DR
32	2N4416	300m	6.0†	15△	30	30		10m	15m	100p	0 0	15	4 5m%	7.5m%	50u%		4.0p#	1.7m	200S	Ø	TO72 DH
33	2N4416A	300m	6.0†	15△	35	35		10m	15m	.10n	0.0	15	4.5m	7.5m	50u		4.0p#	1.7m	200S	Ø	TO72 DH
34	JAN2N4416A	300m	6.0†	15	35	35		10m	15m%	100p	0.0	15	4.5m	7.5m†	50u%		4.0p#	1.7m	200S	#Ø	TO72 DH
35	2N4867	300m	2.0†	20△	40	40	50m	50m	1.2m	25n	0.0	20	.70m	2 0m	1.5u		25p#	1 7m	175S	Ø	TO72 DH
36	2N4867A	300m	2.0†	20	40	40	50m	50m	1.2m	.25n	0.0	20	.70m	2 0m	1.5u		25p#	1.7m	175S	#Ø	TO72 DH
37	2N4868	300m	3.0†	20△	40	40	50m	50m	3.0m	.25n	0.0	20	1.0m	3.0m	4.0u		25p#	1.7m	175S	Ø	TO72 DH
38	2N4868A	300m	3.0†	20	40	40	50m	50m	3.0m	25n	0.0	20	1.0m	3.0m	4.0u		25p#	1.7m	175S	#Ø	TO72 DH
39	2N4869	300m	5.0†	20△	40	40	50m	50m	7.5m	.25n	0.0	20	1 3m	4.0m	10u		25p#	1.7m	175S	Ø	TO72 DH
40	2N4869A	300m	5 0†	20	40	40	50m	50m	7.5m	.25n	0.0	20	1 3m	4 0m	10u		25p#	1.7m	175S	#Ø	TO72 DH
41	2N5078	300m	8.0†	15△	30	30△	30m	10m	25m	.25n	0.0	15	4.5m	10m	150u		6.0p#	1.7m	200S	Ø	TO72 DGØ
42	2N5103	300m	4.0†	15△	25△	25	30m	10m	8.0m	100p	0.0	15	2.0m	8.0m	100u		1.0p#	1.7m	200S		TO72 DH
43	2N5104	300m	4.0†	15△	25△	25	30m	10m	6.0m	100p	0.0	15	3.5m	7.5m	100u		1.0p#	1.7m	200S		TO72 DH
44	2N5105	300m	4.0†	15△	25△	25	30m	10m	15m	100p	0.0	15	5.0m	10m	100u		1.0p#	1.7m	200S		TO72 DH
45	2N5358	300m	3.0†	15		40			1.0m	.10n	0.0	15	1.0m	3.0m	10u		6.0p#	2.0m	175J	Ø#	TO72 DJ
46	2N5359	300m	4.0†	15		40			1.6m	.10n	0.0	15	1.2m	3.6m	10u		6.0p#	2.0m	175J	Ø#	TO72 DJ
47	2N5360	300m	4.0†	15		40			3.0m	.10n	0.0	15	1.4m	4.2m	20u		6.0p#	2.0m	175J	Ø#	TO72 DJ
48	2N5361	300m	6.0†	15		40			5.0m	.10n	0.0	15	1.5m	4.5m	20u		6.0p#	2.0m	175J	Ø#	TO72 DJ
49	2N5362	300m	7.0†	15		40			8.0m	.10n	0.0	15	2.0m	5.5m	40u		6.0p#	2.0m	175J	Ø#	TO72 DJ
50	2N5363	300m	8.0†	15		40			14m	.10n	0.0	15	2.5m	6.0m	40u		6.0p#	2.0m	175J	Ø#	TO72 DJ
51	2N5364	300m	8.0†	15		40			18m	.10n	0.0	15	2.7m	6.5m	60u		6.0p#	2.0m	175J	Ø#	TO72 DJ
52	2N5391	300m	2.0†	20	70	70		10m	1 5m	.20n	0.0	20	1.5m	4.5m	4.0u		18p#	1.7m	200S	#Ø	TO18 DBØ
53	2N5392	300m	2.5†	20	70	70		10m	3.0m	.20n	0 0	20	2 0m	6 0m	7 0u		18p#	1.7m	200S	#Ø	TO18 DBØ
54	2N5393	300m	3.0†	20	70	70		10m	4.5m	.20n	0.0	20	3.0m	6.5m	10u		18p#	1.7m	200S	#Ø	TO18 DBØ
55	2N5394	300m	4.0†	20	70	70		10m	6.0m	.20n	0.0	20	4.0m	7.0m	15u		18p#	1.7m	200S	#Ø	TO18 DBØ
56	2N5395	300m	4.0†	20	70	70		10m	8.0m	.20n	0.0	20	4.5m	7.0m	20u		18p#	1.7m	200S	#Ø	TO18 DBØ
57	2N5396	300m	5.0†	20	70	70		10m	10m	.20n	0.0	20	4.5m	7.5m	25u		18p#	1.7m	200S	#Ø	TO18 DBØ
58	2N5397	300m	6.0†	10	25	25		10m	30m△%	.10n		10	6.0m	10m	200u		5p#	1.7m	200S	Ø#	TO72 DH
59	2N5398	300m	6.0†	10	25	25		10m	40m△%	.10n		10	5.5m	10m	400u		5.5p#	1.7m	200S	#	TO72 DH
60	2N5432†	300m	10†	5.0	25	25	400m	100m	150m%	200p						5.0	30p#	2.3m	150S	#	TO52 DJ
61	2N5433†	300m	9.0†	5.0	25	25	400m	100m	100m%	200p						7.0	30p#	2.3m	150S	#	TO52 DJ
62	2N5434†	300m	4.0†	5.0	25	25	400m	100m	30m△%	.20n						.01k	30p#	2.3m	150S	#	TO52 DJ
63	2N5556	300m	4.0†	15		30			2.5m	.10n	0.0	15	1.5m	6.5m	20u%		6.0p#	2.0m	200S	Ø#	TO72 DH
64	2N5557	300m	5.0†	15		30			5.0m	.10n	0.0	15	1.5m	6.5m	20u%		6.0p#	2.0m	200S	Ø#	TO72 DH
65	2N5558	300m	6.0†	15		30			10m	.10n	0.0	15	1.5m	6.5m	20u%		6.0p#	2.0m	200S	Ø#	TO72 DH
66	2N5592	300m	5.0†	20		50			10m	250p	0.0	20	2.0m	7.0m	10u		20p#	1.7m	200S	#*	TO72 DH
67	2N5593	300m	5.0†	20		50			10m	250p	0.0	20	2.0m	7.0m	10u		20p#	1.7m	200S	#*	TO72 DH
68	2N5594	300m	5.0†	20		50			10m	250p	0.0	20	2.0m	7.0m	10u		20p#	1.7m	200S	#*	TO72 DH
69	2N5647	300m	1.8†	15		50		10m	600u%	10p	.20Ø	15	300u	600u	5.0u%		3.0p	1.7m	150S	Ø#	TO72 DG
70	2N5648	300m	2.4†	15		50		10m	6.0m%	10p	.40Ø	15	400u	800u	7.0u%		3.0p	1.7m	150S	Ø#	TO72 DG
71	2N5649	300m	3.0†	15		50		10m	1.6m%	10p	.60Ø	15	450u	900u	10u%		3.0p	1.7m	150S	Ø#	TO72 DG
72#	2SK43	300m	1 2	10		30△	20m	5 0m	9.9	10n		10	6.3m	20m			13p*		120S	EPL#	TO92 DD
73▼#	2SK106	300m	1.5†	10		50	20m	10m	12m	10n	.50Ø	10	3.5m	5.0m△				3.0m	125S	#	TO92 DC
74	3N124	300m	2.5†	15	50	50	20m	20m	2.0m	.25n	0.0	15	.50m	2.0m	2.0u	1.0k	14p	1.7m	200		TO72 DV
75	3N125	300m	4.0†	15	50	50	20m	20m	4.5m	.25n	0.0	15	.80m	2.4m	10u	.75k	14p	1.7m	200		TO72 DV
76	3N126	300m	6.5†	15	50	50	20m	20m	9.0m	.25n	0.0	15	1.2m	3.6m	20u	.50k	14p	1.7m	200		TO72 DV
77	3N209	300m	4.0†	15△	25	30△	30m	10m	30m	20n	4.0	15	10m%	20m%			7.0p	1.7m	200C	*$	TO72 DX
78	3N223	300m	2.0†	15△	30	40△	50m	10m	12m	10n	4.0	15	17m	40m				1.7m	200J	*	TO72 DX☑
79▼#	3SK47*	300m	1.5†	10	20†	7.0	25m		25m	100n	4.0	10	10m△			45 †	6.5p#	2.4m	150	*	TO72 DX
80#	3SK59	300m	2.5	15	20	9.0	30m		24m	50n	0.0	15	20 △				5.0p*		150J	*	TO72
81#	3SK62	300m	25†	15$	20†	9.0	30m		24m	50m	4.0	15	20 △				5.0p#*	2.7m	150A	PE*	TO72 DX
82#	3SK63	300m	2.5	15	20	9.0	30m		24m	50n	0.0	15	20 △				5.0p*		150J	*	TO72
83	40841	300m	2.0†	15△	18	3.0	50m	100u	10m*	60n	4.0	15	12u				11p#*	2.2m	175A	*Ø	TO72 DX
84	A5T3821	300m	4.0†	15	50△	50		10m	2.5m	100n	0.0	15	1.5m	4.5m†	10u%		6.0p#	2.4m	150S	PEtØ	R203 DB
85	A5T3822	300m	6.0†	15	50△	50		10m	10m	100n	0.0	15	3.0m	6.5m†	20u%		6.0p#	2.4m	150S	PEtØ	R203 DB
86	A5T3823	300m	8.0	15	30△	30		10m	20m	500p	0.0	15	3.5m	6.5m†	35u%		6.0p#	2.4m	150S	PEtØ	R203 DB
87	A5T3824	300m			50△	50		10m	24m	100p						250 %	6.0p#	2.4m	150S	PEtØ	R203 DB
88	A5T4416	300m	6.0†	15	30	30		10m	15m	1.0n	0.0	15	4.5m	7.5m	50u%		4.0p#	2.4m	150S	†	R203 DB
89	A5T4416A	300m	6.0†	15	35	35		10m	15m	1.0n	0.0	15	4.5m	7.5m	50u%		4.0p#	2.4m	150S	†	R203 DB
90♦#	BC264A	300m	.50#	15△	30	30		10m	4.5m	10n	0.0	15	2.5m%					2.3m	150J	tØ	R191 DE
91♦#	BC264B	300m	.50#	15△	30	30		10m	6.5m	10n	0.0	15	3.0m%					2.3m	150J	tØ	R191 DE
92♦#	BC264C	300m	.50#	15△	30	30		10m	8.0m	10n	0.0	15	3.5m%					2.3m	150J	tØ	R191 DE
93♦#	BC264D	300m	.50#	15△	30	30		10m	12m	10n	0.0	15	4.0m%					2.3m	150J	tØ	R191 DE
94#	BC264L	300m	8.0†	15△	30	30		50m	12m%	1.0n	0.0	15	2.5m	4.5m△	50u%		6.0p#	2.8m	150S	PEØ	R196 DA
95#	BC264LA	300m	8.0†	15△	30	30		50m	4.5m%	1.0n	0.0	15	2.5m	4 5m△	50u%		6.0p#	2.8m	150S	PEØ	R196 DA
96#	BC264LB	300m	8.0†	15△	30	30		50m	6.5m%	1.0n	0.0	15	2.5m	4.5m△	50u%		6.0p#	2.8m	150S	PEØ	R196 DA
97#	BC264LC	300m	8.0†	15△	30	30		50m	8 0m%	1 0n	0.0	15	2.5m	4.5m△	50u%		6.0p#	2.8m	150S	PEØ	R196 DA
98#	BC264LD	300m	8.0†	15△	30	30		50m	12m%	1.0n	0.0	15	2.5m	4.5m△	50u%		6.0p#	2.8m	150S	PEØ	R196 DA
99#	BF244A	300m	8.0	15△	30	30	25m	10m	6.5m	5.0n	0.0	15	3.0m	6.5m	25u		4.0p*	2.3m	150J	tØ	TO92 DC
100#	BF244B	300m	8.0	15△	30	30	25m	10m	15m	5 0n	0 0	15	3.0m	6.5m	25u		4.0p*	2.3m	150J	tØ	TO92 DC
101#	BF244C	300m	8.0	15△	30	30	25m	10m	25m	5.0n	0.0	15	3.0m	6.5m	25u		4.0p*	2.3m	150J	tØ	TO92 DC
102#	BF245A	300m	8.0	15△	30	30	25m	10m	6.5m	5.0n	0 0	15	3.0m	6 5m	25u		4.0p*	2.3m	150J	tØ	R203c DD
103#	BF245B	300m	8.0	15△	30	30	25m	10m	15m	5 0n	0.0	15	3.0m	6.5m	25u		4.0p*	2.3m	150J	tØ	R203c DD
104#	BF245C	300m	8.0	15△	30	30	25m	10m	25m	5.0n	0 0	15	3.0m	6 5m	25u		4.0p*	2.3m	150J	tØ	R203c DD
105#	BF256A	300m†	7.5†	15△	30	30		10m	7.0m	5.0n	0.0	15	4.5m	5.0m△				2.0m	150J	†	R203c DD
106#	BF256B	300m†	7.5†	15△	30	30			13m	5.0n	0.0	15	4.5m	5.0m△				2.0m	150J	†	R203c DD
107#	BF256C	300m†	7.5†	15△	30	30			18m	5.0n	0.0	15	4.5m	5.0m△				2.0m	150J	†	R203c DD
108#	BF805	300m	6.0†	6.0△	30	30	13m	10m	13m△	2.0p	3 0Ø	6.0	3.0m	5.5m	30u		3.5p#	1.7m	200S	PE	TO72 DH
109#	BF806	300m	6.0†	6.0△	30	30	13m	10m	13m△	5.0p	3.0Ø	6.0	3.0m	5 5m	30u		3.5p#	1.7m	200S	PE	TO72 DH
110#	BF810	300m	6.0†	6.0△	30	30	20m	10m	20m△	30p	5.0Ø	6.0	5.0m	9.0m	25u		6.0p#	1.7m	200S	PE	TO72 DH

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	TEST COND Vgs (V)	TEST COND Vds (V)	PARAMETERS @25°C COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LCEOADE
1	MFE2095	300m	5.5†	15	50	50	3.0m		3.0m	100p	0.0	15	400u	800u	10u	1.3k	6.0p	2.0m	175	Δ	TO72	DJ
2	MFE3004	300m	5.0†	15Δ	20	30	10m		10mΔ	50p	2.0Ø	15	500				4.5p#	2.0m	175J	*Ø	TO72	DW
3	MFE3005	300m	5.0†	15Δ	20	30	10m		10mΔ	50p	2.0Ø	15	500				4.5p#	2.0m	175J	*Ø	TO72	DW
4#	MFE4302	300m	4.0	20		30			5.0m	1.0n	0.0	20	1.0m		50u%		6.0p#	2.5m	125J		TO106	DB
5	MMF1▼	300m	8.0†	15Δ	30	30	20m	10m	20m%	500u	0.0	15	3.5m†	6.5m†	35u%		6.0p#	2.0m	175J	#Ø	R206	DH
6	MMF2▼	300m	8.0†	15Δ	30	30	20m	10m	20m%	500u	0.0	15	3.5m†	6.5m†	35u%		6.0p#	2.0m	175J	#Ø	R206	DH
7	MMF3▼	300m	8.0†	15Δ	30	30	20m	10m	20m%	500u	0.0	15	3.5m†	6.5m†	35u%		6.0p#	2.0m	175J	#Ø	R206	DH
8	MMF4▼	300m	8.0†	15Δ	30	30	20m	10m	20m%	500u	0.0	15	3.5m†	6.5m†	35u%		6.0p#	2.0m	175J	#Ø	R206	DH
9	MMF5▼	300m	8.0†	15Δ	30	30	20m	10m	20m%	500u	0.0	15	3.5m†	6.5m†	35u%		6.0p#	2.0m	175J	#Ø	R206	DH
10	MMF6▼	300m	8.0†	15Δ	30	30	20m	10m	20m%	500u	0.0	15	3.5m†	6.5m†	35u%		6.0p#	2.0m	175J	#Ø	R206	DH
11	NF500	300m	8.0†	15	25	25Δ		1.0m	30m%	10n	0.0	15	4.5mΔ	†		180 †	2.5p#*	2.4m	150J	Ø#	TO72	DH
12	NF506	300m	5.0†	15		25		10m	15m	1.0n	0.0	15	2.5m	7.0m	50u%		4.0p#	2.4m	150J	Ø	TO72	DH
13	NF520	300m	8.0†	15	30	30Δ		1.0m	10m	1.0n	0.0	15	500u	2.0mΔ			4.0p#*	2.4m	150J	#Ø	TO72	DH
14	NF521	300m	8.0†	15	30	30Δ		1.0m	2.0m	1.0n	0.0	15	400u	1.2mΔ			4.0p#*	2.4m	150J	#Ø	TO72	DH
15	NF530	300m	8.0†	15	30	30Δ		1.0m	10n	8.0n	0.0	15	500u	2.0mΔ			4.0p#*	2.4m	150J	#Ø	TO18	DBØ
16	NF531	300m	8.0†	15	30	30Δ		1.0m	2.0m	8.0n	0.0	15	400u	1.2mΔ			4.0p#*	2.4m	150J	#Ø	TO18	DBØ
17#	NKT80421	300m	8.0	15	30Δ	30Δ		10m	12mΔ	100p	0.0	15	5.0mΔ				4.0pΔ	1.7m	200	#	TO72	DH
18#	NKT80422	300m	7.0	15	30Δ	30Δ		10m	10mΔ	100p	0.0	15	5.0mΔ				4.0pΔ	1.7m	200	#Ø	TO72	DH
19#	NKT80423	300m	8.0	15	30Δ	30Δ		10m	12mΔ	500p	0.0	15	6.0mΔ				2.0pΔ	1.7m	200	#Ø	TO72	DH
20#	NKT80424	300m	8.0	15	50Δ	50Δ		10m	12mΔ	100p	0.0	15	5.0mΔ			250 %	3.0pΔ	1.7m	200	#Ø	TO72	DH
21#	SI241N	300m	1.0†	15	25	25		10m	3.0m	200p	0.0	15	2.0m	7.0m			18p#	1.7	200S	PE	TO18	DBØ
22#	SI242N	300m	1.5†	15	25	25		10m	6.0m	200p	0.0	15	3.5m	7.5m			18p#	1.7	200S	PE	TO18	DBØ
23#	SI243N	300m	2.5†	15	25	25		10m	15m	200p	0.0	15	5.0m	10m			18p#	1.7	200S	PE	TO18	DBØ
24	SU2078▼	300m	4.0	10		50Δ			2.0m	250p	.20Ø	10†	.30m		5.0u		7.0p	1.7m	200J		TO71	PE
25	SU2079▼	300m	4.0	10		50Δ			2.0m	250p	.20Ø	10†	.30m		5.0u		7.0p	1.7m	200J		TO71	PE
26	SU2080▼	300m	4.0	10					10m	.50n	.2Ø	10†	1.5m		20u		7.0p	1.7m	200J		TO71	PJ
27	SU2081▼	300m	4.0	10					10m	.50n	.2Ø	10†	1.5m		20u		7.0p	1.7m	200J		TO71	PJ
28	SU2365▼	300m	3.5†	15	30	30	50m	10m	10mΔ	100p	0.0	10	15.m		2.0u		16p	1.7m	200S	Ø	TO71	PJ
29	SU2366▼	300m	3.5†	15	30	30	50m	10m	10mΔ	100p	0.0	10	1.5m		2.0u		16p	1.7m	200S	Ø	TO71	PJ
30	SU2366A▼	300m	3.5†	15	30	30	50m	10m	10mΔ	50p	0.0	10	1.5m		2.0u		16p	1.7m	200S	Ø	TO71	PJ
31	SU2367▼	300m	3.5†	15	30	30	50m	10m	10mΔ	100p	0.0	10	1.5m		2.0u		16p	1.7m	200S	Ø	TO71	PJ
32	SU2367A▼	300m	3.5†	15	30	30	50m	10m	10mΔ	50p	0.0	10	1.5m		2.0u		16p	1.7m	200S	Ø	TO71	PJ
33	SU2368▼	300m	3.5†	15	30	30	50m	10m	10mΔ	100p	0.0	10	1.5m		2.0u		16p	1.7m	200S	Ø	TO71	PJ
34	SU2368A▼	300m	3.5†	15	30	30	50m	10m	10mΔ	50p	0.0	10	1.5m		2.0u		16p	1.7m	200S	Ø	TO71	PJ
35	SU2369▼	300m	3.5†	15	30	30	50m	10m	10mΔ	100p	0.0	10	1.5m		2.0u		16p	1.7m	200S	Ø	TO71	PJ
36	SU2410▼	300m	3.5†	10	40	40	50m	10m	1.0mΔ	3.0p	10	0.0	250u	1.5m	10u		3.0p	1.7m	200S	Ø	TO71	PJ
37	SU2411▼	300m	3.5†	10	40	40	10m	10m	1.0m	3.0p	10	0.0	250u	1.5m	10u		3.0p#	1.7m	175S	Ø	TO71	PJ
38	SU2412▼	300m	3.5†	10	40	40	10m	10m	1.0m	3.0p	10	0.0	250u	1.5m	10u		3.0p#	1.7m	125S	Ø	TO71	PJ
39	TD5902▼	300m	2.5†	10Δ	40	40	50m	10m	500uΔ	5.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	175S	Ø	TO71	PJ
40	TD5902A▼	300m	4.5†	10Δ	40	40	50m	10m	2.0mΔ	5.0p	0.0	10	250u	1.0m	5.0u%		3.0p#	1.7m	175S	Ø	TO71	PJ
41	TD5903▼	300m	2.5†	10Δ	40	40	50m	10m	500uΔ	5.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	175S	Ø	TO71	PJ
42	TD5903A▼	300m	4.5†	10Δ	40	40	50m	10m	2.0mΔ	5.0p	0.0	10	250u	1.0m	5.0u%		3.0p#	1.7m	175S	Ø	TO71	PJ
43	TD5904▼	300m	2.5†	10Δ	40	40	50m	10m	500uΔ	5.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	175S	Ø	TO71	PJ
44	TD5904A▼	300m	4.5†	10Δ	40	40	10m	10m	2.0mΔ	5.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	200S	Ø	TO71	PJ
45	TD5905▼	300m	2.5†	10Δ	40	40	10m	10m	500uΔ	5.0p	0.0	10	250u	1.0m	5.0u%		3.0p#	1.7m	200S	Ø	TO71	PJ
46	TD5905A▼	300m	4.5†	10Δ	40	40	10m	10m	2.0mΔ	5.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	200S	Ø	TO71	PJ
47	TD5906▼	300m	2.5†	10Δ	40	40	10m	10m	500uΔ	2.0p	0.0	10	250u	1.0m	5.0u%		3.0p#	1.7m	200S	Ø	TO71	PJ
48	TD5906A▼	300m	4.5†	10Δ	40	40	10m	10m	2.0mΔ	2.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	200S	Ø	TO71	PJ
49	TD5907▼	300m	4.5†	10Δ	40	40	10m	10m	500uΔ	2.0p	0.0	10	70u		5.0u%		3.0p#	1.7m	200S	Ø	TO71	PJ
50	TD5907A▼	300m	4.5†	10Δ	40	40	10m	10m	2.0mΔ	2.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	200S	Ø	TO71	PJ
51	TD5908▼	300m	2.5†	10Δ	40	40	10m	10m	500uΔ	2.0p	0.0	10	250u	1.0m	5.0u%		3.0p#	1.7m	200S	Ø	TO71	PJ
52	TD5908A▼	300m	4.5†	10Δ	40	40	10m	10m	2.0mΔ	2.0p	0.0	10	400u	1.5m	5.0u%		3.0p#	1.7m	200S	Ø	TO71	PJ
53	TD5909▼	300m	2.5†	10Δ	40	40	10m	10m	500uΔ	2.0p	0.0	10	250u	1.0m	5.0u%		3.0p#	1.7m	200S	Ø	TO71	PJ
54	TD5909A▼	300m	4.5†	10Δ	40	40	10m	10m	2.0mΔ	2.0p	0.0	10	400u	1.0m	5.0u%		3.0p#	1.7m	200S	Ø	TO71	PJ
55	TD5911▼	300m	5.0†	10Δ	25	25	50m	10m	40mΔ	100p	5.0Ø	10	5.0m	10m	100u%		5.0p#	1.7m	200S	Ø	TO71	PJ
56	TD5911A▼	300m	6.0†	10Δ	30	30	50m	10m	40mΔ	100p	5.0Ø	10	3.5m		100u%		4.0p#	1.7m	200S	Ø	TO71	PJ
57	TD5912▼	300m	5.0†	10Δ	25	25	50m	10m	40mΔ	100p	5.0Ø	10	5.0m	10m	100u%		5.0p#	1.7m	200S	Ø#	TO71	PJ
58	TD5912A▼	300m	6.0†	10Δ	30	30	50m	10m	40mΔ	100p	5.0Ø	10	3.5m		100u%		4.0p#	1.7m	200S	Ø#	TO71	PJ
59	TIS14	300m	6.0		30	30		10m	15m%	1.0n	0.0	15	1.0m	7.5m†	25u*		8.0p#	2.0m	175A	PE	TO38	
60	TIS25	300m			50	50		10m	8.0mΔ	.25n			1.5m	6.0m	25u	.50k	8.0p	2.0m	200	PE	TO76	PJ
61	TIS26	300m			50	50		10m	8.0mΔ	.25n			1.5m	6.0m	25u	.50k	8.0p	2.0m	200	PE	TO76	PJ
62	TIS27	300m			50	50		10m	8.0mΔ	.25n			1.5m	6.0m	25u	.50k	8.0p	2.0m	200	PE	TO76	PJ
63▼	TIS148	300m	4.0†	15	20	30	50m	10m	20m	10n	7.0Ø	15	5.0 %	15 %			30f$	2.7m	150S	*♦Ø	W37	EN
64▼	TIS152	300m	4.0†	15	20	25	50m	10m	15m	10n	7.0Ø	15	5.0 %	15 %			30f$	2.7m	150S	♦Ø	W37	EN
65	TIXS80	300m	5.0†	10		30Δ		10m	25m%	10n	5Ø	10	5.0m	10m			.80pΔ	.50m	175J	PE$	TO72	DU
66	TIXS81	300m	10†	10		30Δ		10m	75m%	10n	15Ø	10	5.0m	10m			.80pΔ	.50m	175J	PE$	TO72	DU
67	TN4117	300m	1.8†	10Δ	40	40	50m	50m	90uΔ	10p	0.0	10	70u		5.0u%		3.0p#	2.0m	175S	Ø	TO72	DH
68	TN4117A	300m	1.8†	10Δ	40	40	50m	50m	90uΔ	1.0p	0.0	10	70u		5.0u%		3.0p#	2.0m	175S	Ø	TO72	DH
69	TN4118	300m	3.0†	10Δ	40	40	50m	50m	240uΔ	10p	0.0	10	80u		5.0u%		3.0p#	2.0m	175S	Ø	TO72	DH
70	TN4118A	300m	3.0†	10Δ	40	40	50m	50m	240uΔ	1.0p	0.0	10	80u		5.0u%		3.0p#	2.0m	175S	Ø	TO72	DH
71	TN4119	300m	6.0†	10Δ	40	40	50m	50m	670uΔ	10p	0.0	10	100u		5.0u%		3.0p#	2.0m	175S	Ø	TO72	DH
72	TN4119A	300m	6.0†	10Δ	40	40	50m	50m	600uΔ	1.0p	0.0	10	100u		5.0u%		3.0p#	2.0m	175S	Ø	TO72	DH
73	U184	300m	8.0	15		25		10m	30m	1.0n	0.0	15	3.0m	8.5m	75u		4.0p#	1.7m	200S	#Ø	TO72	DH
74	U197	300m	1.0	20		30		50m	1.0m	500p	0.0	20	200u			4.0k	7.0p#	2.0m	200S	#	TO18	DBØ
75	U198	300m	4.0	20		30		50m	6.0m	500p	0.0	20	600u			1.5k	7.0p#	2.0m	200S	#	TO18	DBØ
76	U199	300m	10	20		30		50m	20m	500p	0.0	20	1.5m			650	7.0p#	2.0m	200S	#	TO18	DBØ
77	U231▼	300m	4.5	20		50		50m	5.0m	100p	0.0	20	1.0m†	3.0m			6.0p#	1.7m	200S	#	R120	PC
78	U232▼	300m	4.5	20		50		50m	5.0m	100p	0.0	20	1.0m†	3.0m			6.0p#	1.7m	200S	#	R120	PC
79	U233▼	300m	4.5	20		50		50m	5.0m	100p	0.0	20	1.0m†	3.0m			6.0p#	1.7m	200S	#	R120	PC
80	U234▼	300m	4.5	20		50		50m	5.0m	100p	0.0	20	1.0m†	3.0m			6.0p#	1.7m	200S	#	R120	PC
81	U235▼	300m	4.5	20		50		50m	5.0m	100p	0.0	20	1.0m†	3.0m			6.0p#	1.7m	200S	#	R120	PC
82	U290†	300m	10	5.0		30	1.5	100m	500m%	1.0n						2.5	160p#	2.3m	150A	#Ø	TO52	DBØ
83	U291†	300m	4.5	5.0		30	1.5	100m	200m%	1.0n						7.0	160p#	2.3m	150A	#Ø	TO52	DBØ
84	U311	300m	6.0	10		25		20n	60m%	150p	10Ø	10	10m	20m			5.0p†	1.7m	200	#	TO72	DBØ
85	U430*	300m	4.0	10		25		10m	30m%	100p	10Ø	10	10m	20m			5.0p†	2.0m	200S	Si#§	TO99	
86	U431*	300m	6.0	10		25		10m	60m%	100p	10Ø	10	10m	20m			5.0p†	2.0m	200S	Si#§	TO99	
87	U1277	300m	8.0	10		50Δ			8.0m	.10n	1.5Ø	10†	.45m		20u		6.0p%	1.7m	200J	DPL	TO72	DH
88	U1278	300m	4.5	10		50Δ			3.0m	100p	.50Ø	10†	350u		10u		6.0p%	1.7m	200J	DPL	TO72	DH
89	U1279	300m	2.5	10		50Δ			1.5m	.10n	.2Ø	10†	.25m		5.0u		6.0p%	1.7m	200J	DPL	TO72	DH
90	U1280	300m	10	20		50Δ			10m	.10n	0.0	20	.25m				6.0p%	1.7m	200J	DPL	TO72	DH
91	U1281	300m	8.0	10		50Δ			8.0m	.50n	8Ø	10†	3.0m		30u†	.30k†	18p%	1.7m	200J	DPL	TO18	DBØ
92	U1282	300m	4.5	10		50Δ			20m	.50n	4Ø	10†	2.5m		30u		18p%	1.7m	200J	DPL	TO18	DBØ
93	U1283	300m	2.5	10		50Δ			10m	.50n	1Ø	10†	1.5m		15u		18p%	1.7m	200J	DPL	TO18	DBØ
94	U1284	300m	10	20		50Δ			40m	.50n	0.0	20	1.0m				18p%	1.7m	200J	DPL	TO18	DBØ
95	U1285	300m	8.0	20		30Δ			.10m#	5.0n	0.0	20	.20m	1.2m			20pΔ	1.7m	200J	DPL	TO72	DH
96	U1286	300m	8.0	20		30Δ			.20m#	10n	0.0	20	1.0m	10m			8.0pΔ	1.7m	200J	DPL	TO18	DBØ
97	U1325	300m	1.2	10		30Δ			.50m	.10n	.2Ø	10	.85m	1.2m			6.0p	1.7m	200J	PEØ	TO18	DH
98	U1714	300m	5.0†	10		25			5.0m	5.0p	0.0	10	400u				3.0p#	1.7m	200J		TO18	DBØ
99	U1837E	300m	8.0†	15	30	30	30m	10m	25m	250p	0.0	15	4.0m		150u%	300	6.0p#	2.5m	125J	Ø	R97b	DB
100	U1897E†	300m	10†	20	40	40Δ			30m#%							30	16p#	2.5m	125J		R97b	DB
101	U1898E†	300m	7.0†	20	40	40Δ			15m#%							50	16p#	2.5m	125J		R97b	DB
102	U1899E†	300m	5.0†	20	40	40Δ			8.0m#%							80	16p#	2.5m	125J		R97b	DB
103	U1994E	300m	6.0†	15	30	30	30m		15m	100p	0.0	15	4.5m	7.5m	50u%		4.0p#	2.5m	125J	Ø	R97b	DD
104	U2047E	300m	8.0†	15	30	30	30m		25m	250p	0.0	15	4.5m		50u%		4.0p#	2.5m	125J	Ø	R97b	DD
105	UC100	300m	5.0	20		30		10m	7.5m	100p	0.0	20	2.0m			600 †	5.0p%		200J	PL	TO72	DH
106	UC110	300m	3.0	20		30		10m	3.0m	100p	0.0	20	1.5m			800 †	5.0p%		200J	PL	TO72	DH
107	UC115	300m	3.0	20		30		10m	3.0m	100p	0.0	20	1.5m			800 †	5.0p%		200J	PL	TO18	DD
108	UC130	300m	1.2	20		30		10m	500u	100p	0.0	20	500u			2.4k†	5.0p%		200J	PL	TO72	DH
109	UC155	300m	10	20	30Δ	30	30m	10m	30m	.10n						.12k	4.0p	1.7m	200	PE	TO72	
110	UC240	300m	5.0	20		50			10m	100p	0.0	20	1.2m				1.8p#		200J	E	TO18	DB

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp · (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	PARAMETERS @25°C TEST COND Vgs (V)	Vds (V)	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	E401▼	350m	4.5	20		40		50m	5.0m%	200p	0.0	20	1 0m	3.0m			4.5p*#	3 5m	125A	#†	R165 PC
2	E402▼	350m	4.5	20		40		50m	5 0m%	200p	0.0	20	1 0m	3.0m			4.5p*#	3.5m	125A	#†	R165 PC
3	E410▼	350m	3.5†	20		40		50m	6 0m%	250p	0.0	20	1 4m	4.0m			4 5p#	3.5m	125	#§	R170 PC
4	E411▼	350m	3.5†	20		40		50m	6.0m%	250p	0.0	20	1 4m	4 0m			4.5p#	3.5m	125	#§	R170 PC
5	E412▼	350m	3.5†	20		40		50m	6.0m%	250p	0 0	20	1 4m	4.0m			4 5p#	3.5m	125	#§	R170 PC
6	E420	350m	6.0	10		25		50m	30m%	500p	5 0Ø		4 5m	9 0m			3.5p*#	3.5m	125A	#§	R165 PC
7	E421	350m	6.0	10		25		50m	30m%	500p	5 0Ø		4.5m	9.0m			3.5p*#	3.5m	125A	#§	R165 PC
8	E430	350m	4 0	10		25		10m	30m%	150p	10Ø	10	10mΔ	20m	200u		5.0pt	3 5m	125	#§	TO105 QV
9	E431	350m	6 0	10		25		10m	60m%	150p	10Ø	10	10mΔ	20m	200u		5.0pt	3.5m	125	#§	TO105 QV
10	J107	350m	4.5	5.0		30		50m	100m#%	3 0n						8.0 %	160p#	3.5m	125A	#Δ	TO92 DE
11	J111	350m	10	5.0		35		50m	20m#%	1.0n						30 %	28p#	3 5m	125A	#Δ	TO92 DE
12	J112	350m	5 0	5.0		35		50m	5.0m#%	1.0n						50 %	28p#	3.5m	125A	#Δ	TO92 DE
13	J113	350m	3.0	5.0		35		50m	2 0m#%	1.0n						100 %	28p#	3.5m	125A	#Δ	TO92 DE
14	J114	350m	10	5 0		25		50m	15m#%	1.0n						150 %	8.0p#	3 5m	125A	#Δ	TO92 DE
15	J201	350m	1.5	20		40		50m	1.0m%	100p	0.0	20	500u†				5.0p#*	3.5m	125A	#†	TO92 DE
16	J202	350m	4.0	20		40		50m	4.5m%	100p	0.0	20	1.0m†				5.0p#*	3.5m	125A	#†	TO92 DE
17	J203	350m	10	20		40		50m	20m%	100p	0.0	20	1.5m†				5.0p#*	3 5m	125A	#†	TO92 DE
18	J210	350m	3.0	15		25		10m	15m%	100p	0.0	15	4.0m†	12m†			5.0p#*	3 5m	125A	#†	TO92 DE
19	J211	350m	4.5	15		25		10m	20m%	100p	0.0	15	7.0m†	12m†			5.0p#*	3.5m	125A	#†	TO92 DE
20	J212	350m	6 0	15		25		10m	40m%	100p	0 0	15	7.0m†	12m†			5.0p#*	3.5m	125A	#†	TO92 DE
21	J300	350m	6.0	10		25		10m	30m%	500p	5 0Ø		4.5m†	9.0m†	200u%		5.5p#	3 5m	125A	#Ø	TO92 DE
22	J304	350m	6.0	15		30		10m	15m%	100p	0 0	15	4.5m†	7.5m†	50u%		3.0p#*	3.5m	125A	#†	TO92 DE
23	J305	350m	3.0	15		30		10m	8.0m%	100p	0.0	15	3.0m†		50u%		3.0p#*	3.5m	125A	#†	TO92 DE
24♦	J308	350m	6.5†	10		25		10m	60m%	1.0n	10Ø	10	8 0m	20m			5.0pt	3.5m	125	#	TO92 DD
25♦	J309	350m	4 0†	10		25		10m	30m%	1.0n	10Ø	10	10m	20m			5.0pt	3.5m	125	#	TO92 DD
26♦	J310	350m	6.5†	10		25		10m	60m%	1.0n	10Ø	10	8.0m	18m			5 0pt	3.5m	125	#	TO92 DD
27	J410▼	350m	3 5†	20Δ		40		50m	6.0m%	250p	0.0	20	1.0m	4.0m	20u%		4 5p#	3.5m	125A	#§	S16a QQ
28	J410CN	350m	3.5†	20		40		50m	6 0m%	250p	0.0	20	1.0m	4.0m	20u%		4.5p*	3.5m	125A	#§	S16 QQ
29	J411▼	350m	3 5†	20Δ		40		50m	6.0m%	250p	0.0	20	1.0m	4.0m	20u%		4.5p#	3.5m	125A	#§	S16a QQ
30	J411CN	350m	3.5†	20		40		50m	6.0m%	250p	0.0	20	1.0m	4.0m	20u%		4.5p*	3.5m	125A	#§	S16 QQ
31	J412▼	350m	3.5†	20Δ		40		50m	6 0m%	250p	0.0	20	1 0m	4.0m	20u%		4.5p#	3 5m	125A	#§	S16a QQ
32	J412CN	350m	3.5†	20		40		50m	6.0m%	250p	0.0	20	1.0m	4 0m	20u%		4.5p*	3.5m	125A	#§	S16 QQ
33#	MEF3069	350m	9.5			50Δ			10m	1.0n	0.0	30	1.0m	2 5m			15p	2.0m	200C	Ø	TO106 DB
34#	MEF3070	350m	4.5	30		50Δ			2.5m	1 0n	0.0	30	750u	2 5m			15p	2 0m	200C	Ø	TO106 DB
35#	MEF3071	350m	2.2	30		50Δ			600u	1.0n	0.0	30	500u	2.5m			15p	2.0m	200C	Ø	TO106 DB
36#	MEF3684	350m	4.5	20		50Δ			7 5m	100p	0.0	20	2.0m	3.0m			4.0p	2.0m	200S		TO106 DB
37	MPF130	350m	4 0†	15§	25		30m		30m	20n	4.0	15	8.0m%	20m%			4 5p#	2.3m	175J	*Ø	W13 EE
38	MPF131	350m	4.0†	15§	25		30m		30m	20n	4.0	15	8.0m%	20m%			4 5p#	2.3m	175J	*Ø	W13 EE
39	MPF132	350m	4.0†	15§	25		30m		30m	20n	4.0	15	8.0m%	20m%			4.5p#	2.3m	175J	*Ø	W13 EE
40	MPF256	350m	7.5†	15Δ	30	25			18m	5.0n	0.0	15	6 0m%				3.0p#*	2.7m	150J	#Ø	T092 DD
41	NPD8301	350m	3.5†	20		40		50m	6 0m%	100p	0.0	20	1.0m	4.0m	20u%		4.5p*	3.5m	125A	#§	S16 QW
42	NPD8302	350m	3 5†	20		40		50m	6.0m%	100p	0.0	20	1 0m	4.0m	20u%		4.5p*	3 5m	125A	#§	S16 QW
43	NPD8303	350m	3.5†	20		40		50m	6.0m%	100p	0.0	20	1.0m	4.0m	20u%		4 5p*	3.5m	125A	#§	S16 QW
44	PTC152-RT	350m			30	30		50m	15m	1.0n	0 0	20	3.0m%	7.5m%						#	T092
45	UC200	350m	6.0	20		50			30mΔ	.10n			6 0m			.15k	7 0p		200	E	T072 DH
46	UC201	350m	8 0	20		50			15m	100p						130 †	7.0p#			PE	T072
47	UC210	350m	4 0	20		50			12mΔ	.10n			4 5m			.25k	7.0p		200	E	T072 DH
48	UC220	350m	2.5	20		50			5.0mΔ	10n	0.0	20	3 0m			.35k	7.0p		200J	EØ	T072 DH
49	2N3819	360m	8.0†	15Δ	25	25		10m	20m%	2 0n	0 0	15	2.0m	6.5m	50u*		8.0p#	2.9m	150S	†	T092 DA
50♦	JAN2N4091†	360m	10†	20	40	40		10m	30m#%	100p						30 %	16p#	2 4m	175A	#☑	TO18 DBØ
51♦	JAN2N4092†	360m	7.0†	20	40	40		10m	15m#%	100p						50 %	16p#	2.4m	175A	#☑	TO18 DBØ
52♦	JAN2N4093†	360m	5.0†	20	40	40		10m	8 0m#%	100p						80 %	16p#	2.4m	175A	#☑	TO18 DBØ
53	2N4856†	360m	10†	15Δ	40	40		50m	50m#%	250p						25 %	18p#	2 0m	200S	Δ	TO18 DBØ
54	JAN2N4856	360m	10	15	40	40		50m	50m#%	250p						30 †	18p#	2 4m	200S	☑	TO18 DBØ
55	2N4856A†	360m	10†	15Δ	40	40		50m	50m%#	250p						25 %	10 #	2.0m	200S	☑	TO18 DBØ
56	2N4857†	360m	6.0†	15Δ	40	40		50m	50m#%	250p						40 %	18p#	2.0m	200S	Δ	TO18 DBØ
57♦	JAN2N4857	360m	6 0	15	40	40		50m	100m%	250p						40 †	18p#	2.4m	200S	☑	TO18 DBØ
58	2N4857A†	360m	6.0†	15Δ	40	40		50m	100m	250p						40 %	10 #	2.0m	200S	☑	TO18 DBØ
59	2N4858†	360m	4.0†	15Δ	40	40		50m	50m#%	250p						60 %	18p#	2.0m	200S	Δ	TO18 DBØ
60♦	JAN2N4858	360m	4.0	15	40	40		50m	80m%	250p						60 †	18p#	2.4m	200S	☑	TO18 DBØ
61	2N4858A†	360m	4.0†	15Δ	40	40		50m	80m%	250p						60 %	10 #	2.0m	200S	☑	TO18 DBØ
62	2N4859†	360m	10†	15Δ	30	30		50m	50m#%	250p						25 %	18p#	2 0m	200S	Δ	TO18 DBØ
63♦	JAN2N4859	360m	10	15	30	30		50m	50m%#	250p						30 †	18p#	2.4m	200S	☑	TO18 DBØ
64	2N4859A†	360m	10†	15Δ	30	30		50m	50m%	250p						25 %	10 #	2 0m	200S	☑	TO18 DBØ
65	2N4860†	360m	6.0†	15Δ	30	30		50m	50m#%	250p						40 %	18p#	2.0m	200S	Δ	TO18 DBØ
66♦	JAN2N4860	360m	6.0	15	30	30		50m	100m%	250p						40 †	18p#	2.4m	200S	☑	TO18 DBØ
67	2N4860A†	360m	6.0†	15Δ	30	30		50m	100m	250p						40 %	10 #	2 0m	200S	☑	TO18 DBØ
68	2N4861†	360m	4.0†	15Δ	30	30		50m	50m#%	250p						60 %	18p#	2.0m	200S	Δ	TO18 DBØ
69♦	JAN2N4861	360m	4 0	15	30	30		50m	80m%	250p						60 †	18p#	2.4m	200S	☑	TO18 DBØ
70	2N4861A†	360m	4.0†	15Δ	30	30		50m	80m%	250p						60 %	10 #	2.0m	200S	☑	TO18 DBØ
71	2N5245	360m	6 0†	15		30		50m	15mΔ%	1.0n	0.0	15	4.5m	7.5m	50u		4.5p#	2.9m	150S	#Ø	R203 DD
72	2N5246	360m	4 0†	15		30		50m	7mΔ%	1.0n	0.0	15	3.0m	6.0m	50u		4.5p#	2.9m	150S	#Ø	R203 DD
73	2N5247	360m	8 0†	15		30		50m	24mΔ%	1.0n	0.0	15	4.5m	8 0m	70u		4.5p#	2 9m	150S	#Ø	R203 DD
74	2N5248	360m	8.0†	15		30		10m	20m%	5 0n	0.0	15	3.5m	6 5m	50u		6.0p#	2.9m	150S	#	T092 DA
75	2N5549	360m				40				250p			6.0m	15m		100 %	8.0p#☑	2.4m	200S	#	T018 DH
76	2N5949	360m	7 0†	15		30			18m%	1 0n	0 0	15	3.5m	7.5m	75u%	200 %	6.0p#	2.8m	150S	Ø#	R203 DB
77	2N5950	360m	0 0†	15		30			15m%	1 0n	0 0	15	3.5m	7 5m	75u%	210 %	6.0p#	2.8m	150S	Ø#	R203 DB
78	2N5951	360m	5.0†	15		30			13m%	1.0n	0 0	15	3.5m	6.5m	75u%	250 %	6.0p#	2.8m	150S	Ø#	R203 DB
79	2N5952	360m	3.5†	15		30			8.0m%	1.0n	0.0	15	2.0m	6.5m	50u%	300 %	6.0p#	2.8m	150S	Ø#	R203 DB
80	2N5953	360m	.0†	15		30			5 0m%	1 0n	0 0	15	2.0m	6.5m	50u%	375 %	6.0p#	2.8m	150S	Ø#	R203 DB
81	2N6451	360m	3.5†	10Δ		20		10m	20m%	100u	5 0Ø	10	15m%	30m%	50u		25p#	2 4m	200S	#Ø	TO72 DH
82	2N6452	360m	3 5†	10Δ		25		10m	20m%	100u	5.0Ø	10	15m%	30m%	50u		25p#	2 4m	200S	#Ø	TO72 DH
83	2N6453	360m	5.0†	10Δ		20		10m	50m%	100u	15Ø	10	20m%	40m%	100u		25p#	2.4m	200S	#Ø	TO72 DH
84	2N6454	360m	5 0†	10Δ		25		10m	50m%	100u	15Ø	10	20m%	40m%	100u		25p#	2.4m	200S	#Ø	TO72 DH
85	3N201	360m	5.0†	15Δ	25	30Δ	50m	10m		10n	4 0	15	8.0m	20m				2.4m	200S	Ø*	TO72 DX
86	3N202	360m	5.0†	15Δ	25	30Δ	50m	10m		10n	4.0	15	8.0m	20m				2.4m	200S	Ø*	TO72 DX
87	3N203	360m	5.0†	15Δ	25	30Δ	50m	10m		10n	4.0	15	7.0m	15m				2.4m	200S	Ø*	TO72 DX
88	3N203A	360m	5.0†	15	25	30Δ	50m	10m	15m	10n	4.0	15	7.0m%	15m%				2.4m	200S	*§	TO72 DX
89	3N204	360m	4.0†	15Δ	25	30Δ	50m	10m	30mΔ%	10n	0.0	15	10m%	22m%				2.4m	200S	*Ø	TO72 DX
90▼	JAN3N204	360m	4.0†	15Δ	25	30Δ		10m	30mΔ%	10n	0.0	15	10m%	22m%				2.4m	200J	*Ø	TO72 DX
91	3N205	360m	4.0†	15Δ	25	30Δ	50m	10m	30mΔ%	10n	0 0	15	10m%	22m%				2.4m	200S	*	TO72 DX
92	3N206	360m	4.0†	15Δ	25	30Δ	50m	10m	15mΔ%	10n	0.0	15	7.0m%	17m%				2.4m	200S	*Ø	TO72 DX
93	3N211	360m	5.5†	15Δ	27	35Δ	50m	10m	40mΔ%	10n	0.0	15	17m%	40m%				2.4m	200S	Ø*	TO72 DX
94	3N212	360m	4.0†	15Δ	27	35Δ	50m	10m	40mΔ%	10n	0 0	15	17m%	40m%				2 4m	200S	*	TO72 DX
95	3N213	360m	5.5†	15Δ	35	40Δ	50m	10m	40mΔ%	10n	0.0	15	15m%	35m%				2.4m	200S	Ø*	TO72 DX
96	3N214	360m	6.0†	12§	20	20Δ	50m	1.0m	50mØ#	10n	6.0					20	6.0p	2.4m	200S	*☑	TO72 DW
97	3N215	360m	6.0†	12§	20	20Δ	50m	1.0m	50mØ#	10n	6.0					35	6.0p	2.4m	200S	*☑	TO72 DW
98	3N216	360m	6.0†	12§	20	20Δ	50m	1.0m	50mØ#	10n	6.0					50	6.0p	2.4m	200S	*☑	TO72 DW
99	3N217	360m	6.0†	12§	20	20Δ	50m	1.0m	50mØ#	10n	6.0					70	6.0p	2.4m	200S	*☑	TO72 DW
100	3N225	360m	4.0†	15Δ	20	25Δ	50m	10m	20m%	10n	4.0	15	6 0m%	15m%				2.4m	200S	*§	TO72 DX
101	3N225A	360m	3.0†	15Δ	20	25Δ	50m	10m	15m%	10n	4.0	15	7.5m%	15m%				2.4m	200S	*§	TO72 DX
102#	BF244	360m	8.0†	15	30	30		10m	25m	5.0n	0.0	15	3.0m%	6.5m%			4.0p*	2.9m	150S	PE	R203
103#	BF245	360m	8.0†	15	30	30		10m	25m	5.0n	0 0	15	3.0m%	6.5m%			4.0p*	2.9m	150S	PE	T092
104#	BF246	360m	8.0†	15	25			10m	300m	5.0n	0.0	15	8.0m%	23mΔ			12p*	2 9m	150S	PE	R203
105#	BF247	360m	8.0†	15	25			10m	300m	5.0n	0.0	15	8.0m%	23mΔ			12p*	2.9m	150S	PE	T092
106#	BF256L	360m	7.5†	15Δ	30	30		50m	18m	5.0n	0.0	15	4.5m	5.0mΔ	50u		4.5p*#	2.8m	150S	PEØ	R196 DA
107#	BF256LA	360m	7.5†	15Δ	30	30		50m	7.0m	5.0n	0.0	15	4.5m	5.0mΔ	50u		4.5p*#	2.8m	150S	PEØ	R196 DA
108#	BF256LB	360m	7.5†	15Δ	30	30		50m	13m	5.0n	0.0	15	4.5m	5.0mΔ	50u		4.5p*#	2.8m	150S	PEØ	R196 DA
109#	BF256LC	360m	7.5†	15Δ	30	30		50m	18m	5 0n	0.0	15	4.5m	5.0mΔ	50u		4.5p*#	2.8m	150S	PEØ	R196 DA
110#	BF346	360m	5 5	11	20	20		10m	80m	5.0n		10	16m					2.8m	150	PE	R203 DW

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION
(2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0	TEST COND Vgs (V)	TEST COND Vds (V)	PARAMETERS @25°C COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUC-TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	UC588	360m	6.0†	15		30		10m	15m△	1.0n	0.0	15	4.5m	7.5m	50u		4.0p	2.8m	200	†Ø	TO106 DD
2	2N5902▼	367m	4.5†	10△	40	40			500u	5.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	TO78 PE
3	2N5903▼	367m	4.5†	10△	40	40			500u	5.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	TO78 PE
4	2N5904▼	367m	4.5†	10△	40	40			500u	5.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	TO78 PE
5	2N5905▼	367m	4.5†	10△	40	40			500u	5.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	TO78 PE
6	2N5906▼	367m	4.5%	10△	40	40			500u	2.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	TO78 PE
7	2N5907▼	367m	4.5†	10△	40	40			500u	2.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	TO78 PE
8	2N5908▼	367m	4.5†	10△	40	40			500u	2.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	TO78 PE
9	2N5909▼	367m	4.5†	10△	40	40			500u	2.0p	0.0	10	70u	250u	5.0u%		3.0p#	3.0m	150S	Ø	TO78 PE
10	2N5911▼	367m	5.0†	10△	25	25		100p	40m	100p			5.0m	10m	100u		5.0p#	3.0m	150S	Ø	TO78 PE
11	2N5912▼	367m	5.0†	10△	25	25		100p	40m	100p			5.0m	10m	100u		5.0p#	3.0m	150S	Ø	TO78 PE
12	40468A	375m		△	20	1.0	25m		25m%△	1.0n		15		7.5m△			10p#	2.5m	175J	*Ø	TO72 DW
13	40559A	375m		△	20	1.0	25m		25m%△	1.0n							5.5p#*	2.5m	175J	*	TO72 DW
14	IT1750	375m	3.0△	$	25	125	100m		10n			10	3.0m			25 †	6.0p#	3.0m	150J		TO72 DR
15	NDF9406▼	375m	4.0†	20△	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.1m	200S	§#	R120 PC
16	NDF9407▼	375m	4.0†	20△	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.1m	200S	§#	R120 PC
17	NDF9408▼	375m	4.0†	20△	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.1m	200S	§#	R120 PC
18	NDF9409▼	375m	4.0†	20△	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.1m	200S	§#	R120 PC
19	NDF9410▼	375m	4.0†	20△	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.1m	200S	§#	R120 PC
20	2N3084	400m	10†	15	30	15		50m	3.0m	.10n	1.0	15	.40m	2.0m	50u%		14p	2.3m	200C		R179r
21	2N3085	400m	10†	15	30	15		50m	3.0m	.10n	1.0	15	.40m	2.0m	50u%		14p	2.3m	200C		TO18 DD
22	2N3086	400m	10†	15	40	15		50m	3.0m	1.0n	1.0	15	.40m	2.0m	50u%		14p	2.3m	200C		R179r
23	2N3087	400m	10†	15	40	15		50m	3.0m	1.0n	1.0	15	.40m	2.0m	50u%		14p	2.3m	200C		TO18 DD
24	2N3088	400m	5.0†	15	15	10		50m	2.0m	1.0n	1.0	15	.30m	2.0m	50u%		14p	2.3m	200C		R179r
25	2N3088A	400m	5.0†	15	15	10		50m	2.0m△	1.0n	1.0	15	.30m	2.0m	50u		14p#	2.3m	200C		R179r
26	2N3089	400m	5.0†	15	15	10		50m	2.0m	1.0n	1.0	15	.30m	2.0m	50u%		14p	2.3m	200C		TO18 DD
27	2N3089A	400m	5.0†	15	15	10		50m	2.0m△	1.0n	1.0	15	.30m	2.0m	50u		14p#	2.3m	200C		TO18 DD
28	2N3465	400m	10†	15	40	40△		50m	5.0m	1.0n	0.0	15	.40m	1.2m	10u%		15pt	2.3m	200C		R179r
29	2N3466	400m	10†	15	40	40△		50m	5.0m	1.0n	0.0	15	.40m	1.2m	10u%		15pt	2.3m	200C		TO18 DD
30	2N4445†	400m	10	5.0△	25	25	400m	100m	150m%	3.0n						5.0 †	70p#	2.3m	200S		TO46 DDØ
31	2N4446†	400m	10	5.0△	25	25	400m	100m	100m%	3.0n						.01k†	70p#	2.3m	200S		TO46 DDØ
32	2N4447†	400m	10	5.0△	20	20	400m	100m	150m%	3.0n						6.0 †	70p#	2.3m	200S		TO46 DDØ
33	2N4448†	400m	10	5.0△	20	20	400m	100m	100m%	3.0n						.01k†	70p#	2.3m	200S		TO46 DDØ
34	2N5158†	400m	8.0	5.0△	40	40	400m	100m	100m%	1.0n							50p#	2.3m	200S	☑	TO46 DJØ
35	2N5159†	400m	10	5.0△	40	40	400m	100m	100m%	1.0n							50p#	2.3m	200S	☑	TO46 DJØ
36	2N6550	400m	3.0†	10		20△			250m	3.0n	10Ø	10	25m%	150m%	100u%		35p#	2.3m	200S	#	TO46 DDØ
37	3N140	400m	4.0†	16△	20	4.0	50m		30m	1.0n	4.0	14	6.0m	18m			7.0p#	2.7m	175A	$Ø	TO72 DX
38	3N141	400m	4.0†	16△	20	4.0	50m		30m	1.0n	4.0	14	6.0m	18m			7.0p#	2.7m	175A	$	TO72 DX
39	3N153	400m		△	20	8.0	50m		5.0m	50p						300 %	8.0p#	2.6m	175S		TO72 DW
40	3N159	400m	4.0†	16△	20	8.0	50m		30m△	1.0n	0.0	14	7.0m	18m			7.0p#	2.6m	175C	*Ø	TO72 DX
41	40467A	400m	8.0†	12△	20	1.0	50m		50m%△	1.0n		15	4.0m	7.5m△		200 †		2.6m	175A	*Ø	TO72 DW
42	40600	400m	2.0†	15△	20	8.0	50m		18m*	1.0n	4.0	13	10m△				5.5p#	2.7m	175A	*Ø	TO72 DX
43	40601	400m	2.0†	15△	20	8.0	50m		18m*	1.0n	4.0	13	10m△				5.5p#	2.7m	175A	*	TO72 DX
44	40602	400m	2.0†	15△	20	8.0	50m		18m*	1.0n	4.0	13	10m△				5.5p#	2.7m	175A	*	TO72 DX
45	40603	400m	2.0†	15△	20	8.0	50m		18m*	1.0n	4.0	13	10m△				5.5p#	2.7m	175A	*Ø	TO72 DX
46	40604	400m	2.0†	15△	20	8.0	50m		18m*	1.0n	4.0	13	2.8m△				5.5p#	2.7m	175A	*	TO72 DX
47#	C81	400m	18	50			10m						400u	200u	500n				150J		R179 A
48	CM697†	400m	3.0	5.0	25	25	400m	100m	30m#	3.0n						.01k%	16pt	2.3m	200J	E#	R135d DDØ
49	CM800	400m	7.0	5.0		30	400m	100m	30m#%	400p						30 %		2.3m	200J	E#△	R135d DDØ
50#	ESM4446	400m	10	5.0	25	25		100m	100m%	200p						8.0 †	50p	2.3m	200J		TO18 DDØ
51#	ESM4448	400m	10	5.0	25	25		100m	50m%	200p						12 †	50p	2.3m	200J		TO18 DDØ
52	HEPF2004-RT	400m		20		1.0	50m		30m	1.0n			6.0k						175J		TO72 DX
53	NF511	400m	10†	10	20	20△		10m	50m%	100n	0.0	10	20m△			50 †	15p#*	4.0m	125J		TO18 DB
54	PTC161-RT	400m			40	40			40m	1.0n	0.0	30	5.0m%	10m%						#	TO92
55	U240†	400m	10	5.0		25	400m	100m	150m%	3.0n						5.0	70p#	2.3m	200S	△☑	TO52 DBØ
56	U241†	400m	10	5.0		25	400m	100m	100m%	3.0n						10	70p#	2.3m	200S	△☑	TO52 DBØ
57	U242†	400m	10	5.0		20	400m	100m	150m%	3.0n						6.0	70p#	2.3m	200S	△☑	TO52 DBØ
58	U243†	400m	10	5.0		20	400m	100m	100m%	3.0m						12	70p#	2.3m	200S	△☑	TO52 DBØ
59	2N5543	500m	15†	30		75			10m%	1.0u	0.0	30	750u	3.0m†	100u*	2.0k%	10p#	3.3m	200S	#	TO39 DBØ
60	2N5544	500m				30			10m%	1.0u	0.0	30	750u	3.0m†	100u*	2.0k%	10p#	3.3m	200S	#	TO39 DBØ
61	HEPF2007-RT	500m		25		20	30m		30m	20n			10m						175J		X158
62	J108†	500m	10†	5.0△	25	25		50m	80m#	3.0n	10Ø	15	25m△		250u	8.0 %		5.0m	125A	☑#	TO92 DE
63	J109†	500m	6.0†	5.0△	25	25		50m	40m#	3.0n	10Ø	15	25m△		250u	12 %		5.0m	125A	☑#	TO92 DE
64	J110†	500m	4.0†	5.0△	25	25		50m	10m#	3.0n	10Ø	15	25m△		250u	18 %		5.0m	125A	☑#	TO92 DE
65	J1401	500mt	2.5†	15		50		10m	10m%	100p	0.0	10	2.0m	7.0m	20u%		8.0p#	11m	150S	#§	S16 QW
66	J1402	500mt	2.5†	15		50		10m	10m%	100p	0.0	10	2.0m	7.0m	20u%		8.0p#	11m	150S	#§	S16 QW
67	J1403	500mt	2.5†	15		50		10m	10m%	100p	0.0	10	2.0m	7.0m	20u%		8.0p#	11m	150S	#§	S16 QW
68	J1404	500mt	2.5†	15		50		10m	10m%	100p	0.0	10	2.0m	7.0m	20u%		8.0p#	11m	150S	#§	S16 QW
69	J1405	500mt	2.5†	15		50		10m	10m%	100p	0.0	10	2.0m	7.0m	20u%		8.0p#	11m	150S	#§	S16 QW
70	J1406	500mt	2.5†	15		50		10m	10m%	100p	0.0	10	2.0m	7.0m	20u%		8.0p#	11m	150S	#§	S16 QW
71	MEM630	500m	4.0†	15△	25	6.0	30m		18m	20n	4.0	15	14 △	%			7.0p#	5.0m	175J	†*	W25 EE
72	MEM631	500m	4.0†	15△	25	6.0	30m		30m	20n	4.0	15	16 △	%			6.0p#	5.0m	175J	†*	W25 EE
73	MEM632	500m	4.0†	15△	25	6.0	30m		20m	20n							7.0p#	5.0m	175J	†*	W25 EE
74	MEM633	500m	4.0†	15△	25	6.0	30m		20m	20n							7.0p#	5.0m	175J	†*	W25 EE
75	NDF9401▼	500m	4.0†	20△	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.9m	200S	§#	TO78 PE
76	NDF9402▼	500m	4.0†	20△	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.9m	200S	§#	TO78 PE
77	NDF9403▼	500m	4.0†	20△	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.9m	200S	§#	TO78 PE
78	NDF9404▼	500m	4.0†	20△	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.9m	200S	§#	TO78 PE
79	NDF9405▼	500m	4.0†	20△	50	50		50m	10m	10p	0.0	20	1.0m	8.0m	3.0u		5.0p#	2.9m	200S	§#	TO78 PE
80	NF510	500m	10†	20	30	30△		10m	50m%	10n	0.0	10	20m△			50 †	15p#*	4.0m	150J		TO18 DB
81	NF4445	500m	10	5.0△	25	25	400m	10m	150m%	3.0n△						5.0 %	50p#	2.8m	200S	PE#	TO52 DJ
82	NF4446	500m	10	5.0△	25	25	400m	10m	100m%	3.0n△						10 %	50p#	2.8m	200S	PE#	TO52 DJ
83	NF4447	500m	10	5.0△	20	20	400m	10m	150m%	3.0n△						6.0 %	50p#	2.8m	200S	PE#	TO52 DJ
84	NF4448	500m	10	5.0△	20	20	400m	10m	100m%	3.0n△						12 %	50p#	2.8m	200S	PE#	TO52 DJ
85	TIXS35	500m	5.0	10△	30	30		10m	10m%△	10n	10Ø	10	10m	20m	200u	50 †	12p#	3.3m	175A	PE§	TO12 DG
86	TIXS36	500m	10	10△	30	30		10m	200m%△	10n	40Ø	10	10m	20m	400u	50 †	12p#	3.3m	175A	PE§	TO12 DG
87	U308	500m	4.0	10		25		20n	30m%	150p	10Ø	10	10m	20m			5.0pt	4.0m	150	#	TO52 DB
88	U309	500m	6.0	10		25		20n	60m%	150p	10Ø	10	10m	20m			5.0pt	4.0m	150	#	TO52 DB
89	U310	500m	6.0	10		25		20m	60m%	150p	10Ø	10	10m	20m§	250u§		5.0pt	4.0m	150A	#	TO52 DBØ
90	U312	500m	6.0	10		25		10m	30m%	100p	10Ø	10	6.0m	10m§	200u§		3.8pt	4.0m	150A	#	TO52 DBØ
91	U401	500mt	2.5	15		50		10m	10m	25p	0.0	10	2.0m	7.0m			8.0p#	5.0m	200S		R120 PC
92	U402	500mt	2.5	15		50		10m	10m	25p	0.0	10	2.0m	7.0m			8.0p#	5.0m	200S		R120 PC
93	U403	500mt	2.5	15		50		10m	10m	25p	0.0	10	2.0m	7.0m			8.0p#	5.0m	200S		R120 PC
94	U404	500mt	2.5	15		50		10m	10m	25p	0.0	10	2.0m	7.0m			8.0p#	5.0m	200S		R120 PC
95	U405	500mt	2.5	15		50		10m	10m	25p	0.0	10	2.0m	7.0m			8.0p#	5.0m	200S		R120 PC
96	U406	500mt	2.5	15		50		10m	10m	25p	0.0	10	2.0m	7.0m			8.0p#	5.0m	200S		R120 PC
97	UC250	500m	10	20		30			150m%	1.0n	0.0	20	20m†			.03k†	25p			PL	TO18 DB
98	UC251	500m	6.0	20		30			75m%	1.0n	0.0	20	12m†	%		75 †	25p			PL	TO18 DB
99	UC2130Ø	500m	5.0	20	50	50		50m	4.5m	100p	0.0	20	1.0m		40u		4.0p		200J	PEØ	TO71 PJ
100	UC2132Ø	500m	5.0	20	50	50		50m	4.5m	100p	0.0	20	1.0m		40u		4.0p		200J	PEØ	TO71 PJ
101	UC2134Ø	500m	5.0	20	50	50		50m	4.5m	100p	0.0	20	1.0m		40u		4.0p		200J	PEØ	TO71 PJ
102	UC2136Ø	500m	5.0	20	50	50		50m	4.5m	100p	0.0	20	1.0m		40u		4.0p		200J	PEØ	TO71 PJ
103	UC2138Ø	500m	5.0	20	50	50		50m	4.5m	100p	0.0	20	1.0m		40u		4.0p		200J	PEØ	TO71 PJ
104	UC2139	500m	6.0	15		30			6.0m	.20n										PE	R120 PC
105	UC2149	500m	6.0	20		30			15m	.20n										PE	R120 PC
106#	UN23	500m			100†	100△		10m	12m	30n	.67	50			7.0u	185	28p	4.0m	150J		R52c QU
107#	UN06	500m			100†	100△		10m	12m	30n	.67	50			7.0u	185	28p	4.0m	150J		
108#	2SK95	600m	9.0	50	150†	150△		10m	28m	10n	0.0	50			33u%	350	40p	4.8m	150J		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	L C O A D E
1#	2SB126A		30 Ø	#J	3.5		60	20		220u	1.0Ø	3.0 Δ	15	50	6.0k			A	TO3	CØ
2#	2SB127A		30 Ø	#J	3.5		60	20		220u	1.0Ø	3.0 Δ	34	100	6.0k			A	TO3	CØ
3#	2SB468		10 Ø		10 Ø	10	200	1.5	90		1.5Ø	4.0	14	130			2.5u#☑	D	TO3	
4#	AD152		6.0 Ø*	#J	1.0		45	12	23 *	30u	1.0Ø	500m	35 #	160 #				A	F9	CØ
5#	AD155		6.0 Ø*				25	12	15 *	30u		500m	35 #	115 Ø						CØ
6#	AD164		6.0 Ø*	#J	1.0		25	10	20 *	200u	1.0Ø	500m	60 #	185 Ø				A	F9	CØ
7	HEP200-RT		90 %	♦J	3.0 $		30 $	10$	30 §$	6.0m$	30		40 Ø		600k§				TO3	CØ
8	HEP230-RT		90 %	♦J	5.0 $		30 $	10$	30 §$	3.0m$	30		60 Ø		600k§				TO3	CØ
9	HEP231-RT		150 %	♦J	15 $		30 $	10$	30 §$	6.0m$	30		40 Ø		500k§				TO36	A
10	HEP232-RT		90 %	♦J	7.0 $		70 $	10$	70 Ø$	80u$	2.0		60 Ø		600k§				TO3	CØ
11	HEP233-RT		170 %	♦J	15 $		65 $	60$	65 Ø$	20m$	65		55 Ø		500k§				TO36	A
12	HEP234-RT		56 %	♦J	5.0 $		200 $	2.0$	200 Ø$	400u$	10		60 Ø		1.0M§				TO3	CØ
13	HEP235-RT		56 %	♦J	10 $		320 $	2.0$	320 Ø$	400u$	10		60 Ø		1.0M§				TO3	CØ
14	HEP236-RT		160 %	♦J	25 $		110 $	2.0$	80 Ø$	200u$	20		60 Ø		210k§				TO41	CØ
15	HEP237-RT		170 %	♦J	30 $		75 $	40$	60 Ø$	900u$	75		80 Ø		270k§				TO36	A
16	HEP238-RT		20 %	♦J	3.0 $		60 $	20$	40 Ø$	125u$	30		120 Ø		200k§				TO5	A
17	HEP239-RT		20 %	♦J	3.0 $		100 $	20$	60 Ø$	125u$	30		120 Ø		200k§				TO5	A
18	HEP623-RT		77 %	♦J	7.0 $		60 $	20$	35 Ø$	1.0m$	35		70 Ø		600k§				TO3	CØ
19	HEP624-RT		77 %	♦J	7.0 $		60 $	20$	35 Ø$	1.0m$	35		120 Ø		600k§				TO3	CØ
20	HEP625-RT		90 %	#J	10 $		100 $	50$	75 Ø$	20m$	90		40 Ø		5.0k§				TO3	CØ
21	HEP626-RT		85 %	♦J	20 $		80 $	2.0$	50 Ø$	10m$	80		60 Ø		1.0M§				TO3	CØ
22	HEP627-RT		85 %	♦J	10 $		80 $	5.0$	80 Ø$	20m$	80		40 Ø		700k§				TO3	CØ
23	HEP628-RT		77 %	♦J	7.0 $		60 $	20$	35 Ø$	1.0m$	35		45 Ø		600k§				TO3	CØ
24	HEP642-RT		57 %	♦J	3.0 $		30 $	20$	25 Ø$	1.0m$	30		95 Ø		350k§				TO66	CØ
25	HEP643-RT		57 %	♦J	3.0 $		30 $	20$	25 Ø$	1.0m$	30		160 Ø		350k§				TO66	CØ
26	HEP644-RT		85 %	♦J	10 $		160 $	5.0$	160 Ø$	3.0m$	160		40 Ø		50k§				TO3	CØ
27	HEPG6001-RT		85 %	♦J	25 $		90 $	1.5$	80 Ø$	200u$	20		70 Ø		850k§				TO3	CØ
28	PTC105-RT		90 Ø		7.0		72	20	50	15mØ	2.0Ø	1.0	30	80 Ø	100k§Δ				TO3	CØ
29	PTC114-RT		70 Ø		3.0		35	16	22	160uØ	1.5Ø	1 0	80 Ø	200	1.0M§Δ				TO3	CØ
30	PTC120-RT		57 Ø		5.0		45	10	30	1.0mØ	2.0Ø	3.0	50	100 Ø	300k#				TO66	
31	PTC122-RT		56 Ø		10		320	2.2	220 Ø	200uØ	10Ø	1 0	15		1.0M#				TO3	CØ
32	PTC138-RT		25 Ø		5.0		75	17	65	500u	10Ø	2.0	150						TO3	CØ
33	PTC147-RT		106 Ø		25		90	3.0	110	300uØ	10Ø	1.0	60 Ø		350k#				TO3	CØ
34	PTC155-RT		9.0 Ø		5.0		60	5.0	40	120nØ	20Ø	500m	80 Ø		1.0M§				TO8	AØ
35	PTC156-RT		1.6 Ø		1.0		32	10	32		10Ø	100m	90 Ø		1.5m§				TO1	A
36	SK3009-RT		30	#J	10		60	10	50		2.0Ø	1 0	90 Ø		450k§			A	TO3	CØ
37	SK3012-RT		150	#J	15		50	20	30		2.0Ø	5.0	50 Ø		100k§			A	TO36	CØ
38	SK3013-RT		150	#J	15		60	10	50		2 0Ø	1.0	90 Ø		450k§			A*	TO3	CØ
39	SK3014-RT		12	#J	5.0		75	1.5	50		2.0Ø	1.0	150 Ø		4.0M§			D	TO3	CØ
40	SK3015-RT		12	#J	5.0		75	1.5	50		2.0Ø	1.0	150 Ø		4.0M§			D*	TO3	CØ
41	SK3034-RT		10	#J	10		200	2 0					35 Ø		2.5M§			D	TO3	CØ
42	SK3035-RT		5 0	#J	10		320	2 0					25 Ø		2.5M§			D	TO3	CØ
43	SK3052-RT		6.0	#J	2.0		60	12	60				110 Ø		450k§				TO66	CØ
44	SK3082-RT		12		2 0		35	6.0	35				110 Ø		450k§					
45	SK3086-RT		12		2.0		35	6.0	35				110 Ø		450k§			*		
46#	T20A6		60 Ø	#C	20	3.0	80	20	60 Ø	5 0m	1.5Ø	15	50	150	2.5k	8 0m		A	TO3	CØ
47	JAN2N2557	14m	1.1	#S			60	20	40	70uØ	.50Ø	1.0	20	60		250m			T28	AØ
48	JAN2N2559	14m	1.1	#S			100	20	60	70uØ	.50Ø	1 0	20	60		250m			T28	AØ
49#	AC128-01	22m	1.0	#J	1 0		32	10	16	200u	0.0	1 0	45	165	1 5M§			A*	X9c	A
50#	AC128K	22m	1.0	#J	1.0 #	40m	32	10	32 §	10uØ	0.0	300mΔ	90 Ø		1.5M§			Δ	X9c	A
51#	AC176K	22m	1.1	ØJ	1 0	500m	32	10	18	50uØ	0.0	300m	50	100 Ø	3.0M§				X9a	
52#	AC188/01	22m	1.0	#J	1 0		25	10	15	200u	1 0Ø	300m	100	500	1 5M§			A	X9c	C
53	2N4106	25m	1.6 Ø	#S	1 0		25	10		25uØ	10	5.0mΔ	70	350					TO1	A
54#	AC188	25m	1.0	#J	1.0		25	10	15	200u	1.0Ø	300m	100	500	1.5M§			A	TO1	A
55	2N2786	29m	1.5 Ø	#S	150m		35	.50	20	10uØ	2.0	100m	33	200					TO39	AØ
56#	AC180K	33m	2.5 Ø	#J	1.0		32	10	24 §	20uØ	1.0Ø	600m	50	250	1.0M§Δ			A*	X9b	
57	2N1172†	66m		#J	1.5 Ø#	250m	40	20		200u	2.0	100m	30	90	17k	600u	3.0u		TO37	AØ
58	2N2282	66m	5.0 Ø	♦C	3.0	1.0	60 †	1 5†	30	100uØ♦	1 0Ø	3.0	15		20M§Δ	400m			TO37	AØ
59	2N2283	66m	5.0 Ø	♦C	3.0	1.0	100 †	1.5†	60	100uØ♦	1 0Ø	3.0	15		20M§Δ	400m			TO37	AØ
60	2N2284	66m	5.0 Ø	♦C	3.0	1.0	200 †	1.5†	100	100uØ♦	1.0Ø	3.0	15		20M§Δ	400m			TO37	AØ
61	2N3461	66m	5.0 Ø	♦C	3.0	1.0	60	1.5	30	3.0m#	1.0Ø	500m	90	150	10kΔ	400m			TO5	AØ
62#	2SB367	66m	4.0 Ø	#J	1.0		25	12	25 Ø	100u	1.5Ø	500m	45	170	500k†	240m▼		A	F6g	CØ
63#	2SB368	66m	4.0 Ø	#J	1.0		45	12	45 Ø	100u	1.5Ø	500m	45	170	500k†	240m▼		A	F6g	CØ
64#	2SB473	66m	4 3 Ø	#J	1 0		32	6 0		15uØ	0.0	500mΔ	40	180	10kΔ			A	F5a	
65♦	2N101	71m	1.0	ØA	1.5		25		12										R171	AØ
66	2N101/13	80m	1.0	ØJ	1.5		30	15	15 §	5.0m#	2.0Ø	500m	11		600k	2.0		A	TO13	FØ
67	2N141	80mØ		ØJ	800m		60	30	30	5 0m	12	50m	40 Ø		400k†				MM1	
68#	2SB63	80m	4.0	ØJ	500m		32	12	32 §	70uØ	1.0	500m	30	125	200k†Δ			A	F6	AØ
69#	2SB180	85m	5.5 Ø	#J	500m		40	12	30 Ø	1.0m	1.5Ø	500m	20	150				A	TO8	
70#	2SB481	92m	6.0 Ø	#J	1.0	200m	32	10			0.0	1.0 Δ	30	110	15k			A	F5b	
71	2N1183	100m	1.0	#C	3 0	500m	45	20	20	250u		400m	20	60	500k†Δ	1.2			TO8	AØ
72	JAN2N1183	100m	7.5	#S			45		20	250u	2.0Ø	400m	20	75	350k†Δ	750m			TO8	AØ
73	2N1183A	100m	1.0	#C	3.0	500m	60	20	30	250u		400m	20	60	500k†Δ	1 2			TO8	AØ
74	JAN2N1183A	100m	7.5	#S			60		30	250u	2.0Ø	400m	20	75	350k†Δ	750m			TO8	AØ
75	2N1183B	100m	1.0	#C	3 0	500m	80	20	40	250u		400m	20	60	500k†Δ	1.2			TO8	AØ
76	JAN2N1183B	100m	7.5	#S			80		40	250u	2.0Ø	400m	20	75	350k†Δ	750m			TO8	AØ
77	2N1184	100m	1.0	#C	3.0	500m	45	20	20	250u		400m	40	120	500k†Δ	1.2			TO8	AØ
78	JAN2N1184	100m	7.5	#S			45	1.5	20		2.0Ø	400m	40	120	350k†Δ	750m			TO8	AØ
79	2N1184A	100m	1.0	#C	3.0	500m	60	20	30	250u		400m	40	120	500k†Δ	1.2			TO8	AØ
80	JAN2N1184A	100m	7.5	#S			60	1.5	30		2.0Ø	400m	40	120	350k†Δ	750m			TO8	AØ
81	2N1184B	100m	1.0	#C	3.0	500m	80	20	40	250u		400m	40	120	500k†Δ	1.2			TO8	AØ
82	JAN2N1184B	100m	7.5	#S			80	1.5	40		2.0Ø	400m	40	120	350k†Δ	750m			TO8	AØ
83	2N2826	100m	7.5 Ø	♦C	1.0	250m		15	15	1 0m#	2.0Ø	100m	75	200	4.0kΔ	2.0			TO37	AØ
84	2N3732	100m#	3.0 Ø	#C	3.0	500m	100 †	.50	100 Ø	200uØ	4.0Ø	700m	35	500	1.0M§Δ	350m			TO3	CØ
85#	2SB463	100m	6.0 Ø	#J	2.0	2 0 Ø	32	12	32 §	70uØ	1.0Ø	500mØ	30	250 *	900k†			A	TO66	CØ
86#	OC26	125m§	13 Ø	#J	3.5	500m	32	10	35	20mØ	1.0Ø	1.0	20	60	150k†			A	TO3	CØ
87#	2SB130	133m		ØJ	1.5		32	10	16	.10mØ	1.0Ø	1.5	20 Ø					A	F7	
88	OC30	133mØ	3.6 Ø	ØJ	1.4	250m	32	10	16 §	12uØ	7.0	100m		35 Ø	300k†			A	F7	
89♦#	2SB493	139m	9.0 Ø	#J	5.0		40	14	20	1.0m	0.0	3.0 Δ	40		300k§Δ			A	TO8	A
90♦#	2SB493W	139m	9.0 Ø	#J	5.0		40	14	20	1.0m	0.0	3.0 Δ	60		300k§Δ			A	TO8	A
91	2N3212	143m	14 Ø	♦J	5.0	2 0	100	2.0	80	1 0m#	2.0Ø	3.0	30	90	600k§	100m	3.0u	D	TO37	AØ
92	2N3213	143m	14 Ø	♦J	5.0	2.0	80	2.0	60	1.0m#	2 0Ø	3.0	30	90	600k§	100m	3.0u	D	TO37	AØ
93	2N3214	143m	14 Ø	♦J	5.0	2.0	60	2.0	40	1.0m#	2.0Ø	3.0	30	90	600k§	100m	3 0u	D	TO37	AØ
94	2N3215	143m	14 Ø	♦J	5.0	2 0	40	2.0	30	1.0m#	2 0Ø	3.0	25	100	600k§	100m	3.0u	D	TO37	AØ
95	2N83	149m		#S	2.0		66	12			1.5Ø	.50	8 0		350k†					
96#	2SB337	160m	12 Ø	#J	7.0	1.0	40	10	30 §	1 0m	2.0Ø	1.0	50	165	300k†	72m		A	TO3	CØ
97#	2SB471	160m	12 Ø	#J	10	3.0	60	10	45 §	500u	2.0Ø	1.0	50	165	300k†	30m		A	TO3	CØ
98#	2SB472	160m	12 Ø	#J	10	3.0	80	10	50 §	500u	2 0Ø	1 0	50	165	300k†	30m		A	TO3	CØ
99	2N3731	167m#	5.0 Ø	#C	10 #	4.0 #	320 †	2.0†	320 Ø	200uØ	3.0Ø	6.0	15			250m			TO3	CØ
100	2N4346	167m#	5.0 Ø	#C	10	4.0		2.0	60							130m			TO3	CØ
101	40612	167m	12	#J	5 0	1.0		5.0		3 0u	2.0	1.0	30	150					TO3	CØ
102	40623	167m	12	#A	5.0	1 0		5.0		500u	2.0	1.0	50	170					TO3	CØ
103	40626	167m	12	#A	5 0	1 0		5 0		500u	2 0	1.0	50	170					TO3	CØ
104#	AUY10	182m#	4.5 Ø	ØJ	700m	50m	70		60	2.0mØ†	10	600mΔ	40		120M§			ADΔ	TO3	
105#	2SB274	185m	12 Ø	#J	6.0		80	1.5		1.0mØ	1.5Ø	1.0 Δ	50 Ø					A	F13	
106#	2SB275	185m	12 Ø	#J	6.0		120	1.5	105	1 0uØ	1 5Ø	4.0	40 Ø		1.0k†			D	F13	
107#	2SB338	185m	12 Ø	#J	7.0	1.0	60	10	30	1.0mØ	1.5Ø	4.0	50 Ø		250k†	40m▼		A	F13	
108#	2SB341	185m	12 Ø	#J	10	1.0	120	50	50	250uØ	1.0Ø	8.0	35 Ø		250k†	50m▼		A	F13	
109#	2SB466	185m	12	#J	500m	500mØ	40	12	30 Ø	500uØ	1.5Ø	500m	25	150	13k			A	F6a	
110#	2SB467	185m	12	#J	500m	500mØ	60	12	40 Ø	200uØ	1.5Ø	500m	25	150	13k			A	F6a	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG # TO200 Ser.	LEAD CONFIG
1	2N307	200m		ØJ	1.0		35		35	15m	1.5Ø	200m	20		3.0kΔ	5 0		A	TO3	CØ
2	2N1658/13	200m	15 Ø	#J	1.0		80		50 Ø			200m	30	90	10k			A	ZA22	
3	2N1659/13	200m	15 Ø	#J	1.0		60		40 Ø			200m	30	90	10k			A	ZA22	
4	2N2659	200m	15 Ø	#C	3.0	1.0	50 †	20†	50 #	600u#♦	.50Ø	500m	30	90		400m			R122	AØ
5	2N2660	200m	15 Ø	#C	3.0	1.0	70 †	20†	70 #	600u#♦	.50Ø	500m	30	90		400m			R122	AØ
6	2N2661	200m	15 Ø	#C	3.0	1.0	90 †	20†	90 #	600u#♦	.50Ø	500m	30	90		400m			R122	AØ
7	2N2662	200m	15 Ø	#C	3.0	1.0	50 †	20†	50 #	600u#♦	.50Ø	500m	30	90		400m			T27	AØ
8	2N2663	200m	15 Ø	#C	3.0	1.0	70 †	20†	70 #	600u#♦	.50Ø	500m	30	90		400m			T27	AØ
9	2N2664	200m	15 Ø	#C	3.0	1.0	90 †	20†	90 #	600u#♦	.50Ø	500m	30	90		400m			T27	AØ
10	2N2665	200m	15 Ø	#C	3.0	1.0	50 †	20†	50 #	600u#♦	.50Ø	500m	50	150		400m			R122	AØ
11	2N2666	200m	15 Ø	#C	3.0	1.0	70 †	20†	70 #	600u#♦	.50Ø	500m	50	150		400m			R122	AØ
12	2N2667	200m	15 Ø	#C	3.0	1.0	90 †	20†	90 #	600u#♦	.50Ø	500m	50	150		400m			R122	AØ
13	2N2668	200m	15 Ø	#C	3.0	1.0	50 †	20†	50 #	600u#♦	.50Ø	500m	50	150		400m			T27	AØ
14	2N2669	200m	15 Ø	#C	3.0	1 0	70 †	20†	70 #	600u#♦	.50Ø	500m	50	150		400m			T27	AØ
15	2N2670	200m	15 Ø	#C	3.0	1.0	90 †	20†	90 #	600u#♦	.50Ø	500m	50	150		400m			T27	AØ
16#	2SB474	200m	12 Ø	#J	2.0		35	6.0	35 §	200uØ	1.5Ø	200m	50	275	700k†			A	F5c	AØ
17▼#	2SB627	200m	13 Ø	#J	10		40	14			0.0	3.0 Δ	100	150 Ø					TO8	A
18♦#	AD136	200m	11 Ø	#J	10	2.0	40	10	22		.50Ø	5.0	30	100	300k§			AΔ	TO8	AØ
19▼	ADY10	200m	17 Ø	♦J			32	16	30		.30Ø	50m	40	70	350k§				TO8	AØ
20▼	ADY11	200m	17 Ø	♦J	600m		60	16	45		.30Ø	50m	30	50	350k§				TO8	AØ
21▼	ADY12	200m	17 Ø	♦J	600m		32	16	30		.30Ø	50m	60	100	350k§				TO8	AØ
22▼	ADY13	200m	17 Ø	♦J	600m		60	16	45		.30Ø	50m	40	70	350k§				TO8	AØ
23▼	ADY20	200m	17 Ø	♦J	600m		60	16	45		.30Ø	50m	60	100	350k§				TO8	AØ
24♦#	AUY18	200m*	9.0 Ø	#J	8.0		64	20	45		.50Ø	5.0 Ø	30	100	300k§			AΔ	TO8	AØ
25	PTC194-RT	200m	12 Ø	#J	2.0		35	6.0	35 §	250uØ	1.5Ø	200m	100 Ø		700k†				F5c	AØ
26#	AD162	222m	6.0 Ø☑	#J	3.0	100m	32	10	20	200u	1.0Ø	50m	74	300	1.5M§			A	F9b	CØ
27	2N2835	250m	16 #		1.0	.20	32	10	32		0.0	1.0 Δ	30			10		A	F9	
28♦#	AD148	250m*	11 Ø	#J	3.5	400m	32	10	26		1.0Ø	1.0	30	100	450k§			A	F12	AØ
29#	AD262	250m	10 ☑	#J	4.0	2.0	35	10	20	100uØ	2.0Ø	1.5	30		325 §			A	F9a	
30#	AD263	250m	10 ☑	#J	4.0	2.0	60	10	40	100uØ	2.0Ø	1.5	20		325 §			A	F9a	
31#	AL112	250m	10 ☑	#J	6.0	1.0	130	2.0	60	10m	2.0Ø	500m	20	200	3.0M§			D	TO3	CØ
32#	AL113	250m	10 ☑	#J	6.0	1.0	100	1.5	40	10m	2.0Ø	500m	20	200	3.0M§			D	TO3	CØ
33	2N1038-1	263m	1.0	#J	3.0	1.0	40	20	30	650u	.50Ø	1.0	20	60	7.0k	250m		AΔ	T27	AØ
34	2N1038-2	263m	1.0	#J	3.0	1.0	40	20	30	650u	.50Ø	1.0	20	60	7.0k	250m		AΔ	T28	AØ
35	2N1039-1	263m	1.0	#J	3.0	1.0	60	20	40	650u	.50Ø	1.0	20	60	7.0k	250m		AΔ	T27	AØ
36	2N1039-2	263m	1.0	#J	3.0	1.0	60	20	40	650u	.50Ø	1.0	20	60	7.0k	250m		AΔ	T28	AØ
37	2N1040-1	263m	1.0	#J	3.0	1.0	80	20	50	650u	.50Ø	1.0	20	60	7.0k	250m		AΔ	T27	AØ
38	2N1040-2	263m	1.0	#J	3.0	1.0	80	20	50	650u	.50Ø	1.0	20	60	7.0k	250m		AΔ	T28	AØ
39	2N1041-1	263m	1.0	#J	3.0	1.0	100	20	60	650u	.50Ø	1.0	20	60	7.0k	250m		AΔ	T27	AØ
40	2N1041-2	263m	1.0	#J	3.0	1.0	100	20	60	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	T28	AØ
41	2N1042-1	263m	1.0	#J	3.0	1.0	40	20	30	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	T27	AØ
42	2N1042-2Δ	263m	1.0	#J	3.0	1.0	40	20	30	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	T28	AØ
43	2N1043-1	263m	1.0	#J	3.0	1.0	60	20	40	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	T27	AØ
44	2N1043-2Δ	263m	1.0	#J	3.0	1 0	60	20	40	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	T28	AØ
45	2N1044-1	263m	1.0	#J	3.0	1.0	80	20	50	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	T27	AØ
46	2N1044-2Δ	263m	1.0	#J	3.0	1.0	80	20	50	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	T28	AØ
47	2N1045-1	263m	1.0	#J	3.0	1.0	100	20	60	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	T27	AØ
48	2N1045-2Δ	263m	1.0	#J	3.0	1.0	100	20	60	650u	1.0Ø	3.0	20	60	7.0k	250m		AΔ	T28	AØ
49	2N1038	267m	20 Ø	#C	3.0	1.0	40 †	20†	40 #	125uØ†	.50Ø	1.0	20	60	2.2M§Δ	250m			R122	AØ
50	2N1039	267m	20 Ø	#C	3.0	1.0	60 †	20†	60 #	125uØ†	.50Ø	1.0	20	60	2.2M§Δ	250m			R122	AØ
51	2N1040	267m	20 Ø	#C	3.0	1.0	80 †	20†	80 #	125uØ†	.50Ø	1.0	20	60	2.2M§Δ	250m			R122	AØ
52	2N1041	267m	20 Ø	#C	3.0	1.0	100 †	20†	100 #	125uØ†	.50Ø	1.0	20	60	2.2M§Δ	250m			R122	AØ
53	2N1042	267m	20 Ø	#C	3.5	1.0	40 †	20†	40 #	125uØ♦	1.0Ø	3.0	20	60	250k§Δ	250m			T6	AØ
54	JAN2N1042	267m	20 Ø	#A	3.0		40	20	30	125uØ	1.0Ø	3.0	20	60					T28	
55	2N1043	267m	20 Ø	#C	3.5	1.0	60 †	20†	60 #	125uØ♦	1.0Ø	3.0	20	60	250k§Δ	250m			T6	AØ
56	JAN2N1043	267m	20 Ø	#A	3.0		60	20	40	125uØ	1.0Ø	3.0	20	60					T28	
57	2N1044	267m	20 Ø	#C	3 5	1.0	80 †	20†	80 #	125uØ♦	1.0Ø	3.0	20	60	250k§Δ	250m			T6	AØ
58	JAN2N1044	267m	20 Ø	#A	3.0		80	20	50	125uØ	1.0Ø	3.0	20	60					T28	
59	2N1045	267m	20 Ø	#C	3.5	1.0	100 †	20†	100 #	125uØ♦	1.0Ø	3.0	20	60	250k§Δ	250m			T6	AØ
60	JAN2N1045	267m	20 Ø	#A	3.0		100	20	60	125uØ	1.0Ø	3.0	20	60					T28	
61	2N2552	267m	20 Ø	#C	3.0	1 0	40 †	20†	30 ☑	125uØ	50Ø	1.0	20	60		250m			T27	AØ
62	2N2553	267m	20 Ø	#C	3.0	1.0	60 †	20†	40 ☑	125uØ	.50Ø	1.0	20	60		250m			T27	AØ
63	2N2554	267m	20 Ø	#C	3.0	1.0	80 †	20†	50 ☑	125uØ	.50Ø	1.0	20	60		250m			T27	AØ
64	2N2555	267m	20 Ø	#C	3.0	1.0	100 †	20†	60 ☑	125uØ	.50Ø	1.0	20	60		250m			T27	AØ
65	2N2556	267m	20 Ø	#C	3.0	1.0	40 †	20†	30 ☑	125uØ	.50Ø	1.0	20	60		250m			T28	AØ
66	2N2557	267m	20 Ø	#C	3.0	1.0	60 †	20†	40 ☑	125uØ	.50Ø	1.0	20	60		250m			T28	AØ
67	2N2558	267m	20 Ø	#C	3.0	1 0	80 †	20†	50 ☑	125uØ	50Ø	1.0	20	60		250m			T28	AØ
68	2N2559	267m	20 Ø	#C	3.0	1.0	100 †	20†	60 ☑	125uØ	.50Ø	1.0	20	60		250m			T28	AØ
69	2N2560	267m	20 Ø	#C	3.5	1.0	40 †	20†	30 ☑	125uØ	1.0Ø	3.0	20	60		250m			T27	AØ
70	2N2561	267m	20 Ø	#C	3.5	1.0	60 †	20†	40 ☑	125uØ	1.0Ø	3.0	20	60		250m			T27	AØ
71	2N2562	267m	20 Ø	#C	3.5	1.0	80 †	20†	50 ☑	125uØ	1.0Ø	3.0	20	60		250m			T27	AØ
72	2N2563	267m	20 Ø	#C	3.5	1.0	100 †	20†	60 ☑	125uØ	1.0Ø	3.0	20	60		250m			T27	AØ
73	2N2564	267m	20 Ø	#C	3.5	1.0	40 †	20†	30 ☑	125uØ	1.0Ø	3.0	20	60		250m			R122	AØ
74	2N2565	267m	20 Ø	#C	3.5	1.0	60 †	20†	40 ☑	125uØ	1.0Ø	3.0	20	60		250m			R122	AØ
75	2N2566	267m	20 Ø	#C	3.5	1.0	80 †	20†	50 ☑	125uØ	1.0Ø	3.0	20	60		250m			R122	AØ
76	2N2567	267m	20 Ø	#C	3.5	1.0	100 †	20†	60 ☑	125uØ	1.0Ø	3.0	20	60		250m			R122	AØ
77	TI159	267m	20	#J	3.0	1.0	40	20	30	650u	.50	1.0	20	60	225k	250m		A	R101	
78	TI160	267m	20	#J	3.0	1.0	60	20	40	650u	50	1.0	20	60	225k	250m		A	R101	
79	TI161	267m	20	#J	3.0	1.0	80	20	50	650u	50	1.0	20	60	225k	250m		A	R101	
80	TI162	267m	20	#J	3.0	1.0	100	20	60	650u	.50	1.0	20	60	225k	250m		A	R101	
81	2N68/13	270m	20 Ø	#J	3.0		30		15 Ø			500m	15		10k			A	ZA24	
82	JAN2N158	283mØ	17	#A	2.0 Ø		60	30	60 Ø	1.0m	2.0Ø	1.0	13	40	4.0kΔ	750m			R173a	FØ
83#	2SB449	300m	22 Ø	#J	3 5	500m	50	20	50 §	3.0m	0.0	3.0 Δ	20	85	10k			A	TO3	CØ
84▼	HSE800-RT	330m	25 Ø	#J			50	15	40	3.0m	2.0Ø	500m	30		100k§Δ				TO3	CØ
85	2N141/13	333m	20	#J	1.0	500m	60	30	30	2.0m	2.0Ø	500m	25			4.0		A	TO13	FØ
86	2N143/13	333m	20	#J	1.0		60	30	30 §	5.0m	6.0Ø	250m	10			6.0		A	TO13	FØ
87	2N155	333mØ	1.5	#J	3.0	500m	30	15	15	1.0m	2.0Ø	500m	32 Ø		180k†	650m		A	TO3	CØ
88	2N156	333m	1.5	#J	3.0		30	15	30	1.0m♦		500m	24	40 Ø	180k†	600m		AΔ	TO13	D
89	2N157	333m	8.5	#J	3.0		60	30		1.0m	2.0Ø	500m	20		100k†☑	750m		A	TO3	CØ
90	2N157A	333m	8.5	#J	3.0		90	30		1.0m	2.0Ø	500m	20		100k†☑	750m		A	TO3	CØ
91	2N158	333m	1.5	#J	3 0		60	30	60	1.0m♦		500m	21	36 Ø	180k†	750m		AΔ	TO13	D
92	2N158A	333m		#J	3.0	500m	80	30	60	1.0m	2.0Ø	500m	21		4.0kΔ	750m			R173	A
93	2N242	333m	25	#J	2.0		45	45		5.0mØ					5.0k†Δ	800m		A	F5	Ø
94	2N255	333m	1.5	#J	3.0		15	15							200k				,	CØ
95	2N255A	333mØ		#J	3.0	.50	15	15	15	5.0m	2.0Ø	.50	30 Ø		125k†			A	TO3	CØ
96	2N256	333m	1.5	#J	3.0		30	30							200k					CØ
97	2N256A	333mØ		#J	3.0	.50	30	15	25	5.0mØ	2.0Ø	.50	30 Ø		125k†			A	TO3	CØ
98	2N296	333m	20 Ø	#J	2.0			15	60	2.0mØ					4.0k†Δ	1.0		A	TO3	CØ
99	2N1078	333mØ	20	#J	3.0		60	15	60	1.5m	2.0Ø	500m	40			1.0		Δ	TO13	FØ
100♦	2N1245	333m	20	#S	4.0		30	15	25 §	5.0mØ	2.0Ø	.50	50						TO3	CØ
101♦	2N1246	333m	20	#S	4.0		30	15	25 §	5.0mØ	2.0Ø	.50	150						TO3	CØ
102	2N1291	333mØ	20	#J	3.0		35	15	30	1.5m	2.0Ø	500m	40			1.0		Δ	TO3	CØ
103	2N1293	333mØ	20	#J	3.0		60	15	60	1.5m	2.0Ø	500m	40			1.0		Δ	TO3	CØ
104	2N1295	333mØ	20	#J	3.0		80	15	80	2.0m	2.0Ø	500m	40			1.0		Δ	TO3	CØ
105	2N1297	333mØ	20	#J	3.0		100	15	100	2.0m	2.0Ø	500m	40			1.0		Δ	TO3	CØ
106	2N1320	333mØ	20	#J	3.0		35	15	30	1.5	2.0Ø	500m	40			1.0		AΔ	TO10	FØ
107	2N1322	333mØ	20	#J	3.0		60	15	60	1.5	2.0Ø	500m	40			1.0		AΔ	TO10	FØ
108	2N1324	333mØ	20	#J	3.0		80	15	80	2.0	2.0Ø	500m	40			1.0		AΔ	TO10	FØ
109	2N1326	333mØ	20	#J	3.0		100	15	100	2.0m	2.0Ø	500m	40			1.0		Δ	TO10	FØ
110	2N1328	333mØ	20	#J	3.0		35	15	30	2.0m	2.0Ø	500m	40			1.0		Δ	TO13	FØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AE XM P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG
1	2N2269†	500m$	12 Ø	♦C	5.0	700m	100	28	100	2 0m♦	2.0Ø	2.0	25	75	20M§△	150m	15uⓅ		T36	F
2	2N2836	500m	37 Ø	#C	3.5		55	20	55 §	50uØ	0.0	1.0 △	30	100	250k†				T03	CØ
3	2N3154	500m	38 Ø	#C	3.0	2.0	40	30	25	100uØ	2.0Ø	500m	60	180	15k△	500m	10uⓅ	A△	F35	Ø
4	2N3155	500m	38 Ø	#C	3.0	2.0	60	30	40	100uØ	2.0Ø	500m	60	180	15k△	500m	10uⓅ	A△	F35	Ø
5	2N3156	500m	38 Ø	#C	3.0	2.0	80	30	55	100uØ	2 0Ø	500m	60	180	15k△	500m	10uⓅ	A△	F35	Ø
6	2N3157	500m	38 Ø	#C	3.0	2.0	100	30	65	100uØ	2 0Ø	500m	60	180	15k△	500m	10uⓅ	A△	F35	Ø
7	2N3158	500m	38 Ø	#C	3.0	2 0	40	30	25	100uØ	2.0Ø	500m	30	75	10k△	470m	10uⓅ	A△	F35	Ø
8	2N3159	500m	38 Ø	#C	3 0	2 0	60	30	40	100uØ	2.0Ø	500m	30	75	10k△	470m	10uⓅ	A△	F35	Ø
9	2N3160	500m	38 Ø	#C	3 0	2.0	80	30	55	100uØ	2.0Ø	500m	30	75	10k△	470m	10uⓅ	A△	F35	Ø
10	2N3161	500m	38 Ø	#C	3 0	2.0	100	30	65	100uØ	2.0Ø	500m	30	75	10k△	470m	10uⓅ	A△	F35	Ø
11	2N4241	500m	37 Ø	#C	5 0		32	20	20	45u	1.0	300m	60	300	5.0k	70m			T03	CØ
12#	2SB342	500m	30	ØJ	6.0		120	1.0	120 §	5.0m	1.5Ø	5.0	25	250	1.0Mt	.06 ▼		D	T03	
13#	2SB426	500m	30 Ø	#J	7.0		32	12	32 §	160uØ	1.5Ø	1.0	34	80	400kt			A	T03	
14#	2SB465	500m	30 Ø	#J	6.0	6.0 Ø	60	1.0	60 §	330uØ	1.5Ø	1.0 Ø	30	170	1.6Mt	60m		D	T03	CØ
15♦#	AD149	500m	22	#J	3.5		50	20	30	350uØ	1.0Ø	1.0	30	100	300k§			A	T03	CØ
16♦#	ADY27*	500m	27	#J	3.5	600m	32	10	30		1.0Ø	1.0	50	100 *	450k§			A	F9d	CØ
17▼	ASZ1015	500m	42 Ø	♦J	6.0		80	40	60		1.0Ø	6.0	15	30	200k§				T03	CØ
18▼	ASZ1016	500m	42 Ø	♦J	6 0		60	20	32		1.0Ø	6.0	35	80	250k§				T03	CØ
19▼	ASZ1017	500m	42 Ø	♦J	6.0		60	20	32		1.0Ø	6.0	20	45	220k§				T03	CØ
20▼	ASZ1018	500m	42 Ø	♦J	6.0		80	32	40		1.0Ø	6.0	20	65	220k§				T03	CØ
21#	AU101	500m	10 Ø	#J	10	2.0	120	1.0	120	10m	2.0Ø	5.0	30 Ø		400k§	100m	2.6u#	D	T03	
22#	AU102	500m	10 Ø	#J	10	2.0	40	1.0	40	10m	2.0Ø	5.0	17 Ø		400k§	100m	3.9u#	D	T03	
23♦#	OC25	500m	1 3	#J	4 0		40	10	40	100uØ	1.0Ø	4.0	12	50	250k			A	T03	CØ
24	2N1430	588mØ		♦J	10		100		100			5.0	30	120	1.5Mt			DA	TO41	CØ
25	2N2147	660m♦	12 Ø	#J	5.0	1 0	75 †	1 5†	50	10m	2.0Ø	1.0	100	300	3 0M§△	250m			T03	CØ
26	2N2148	660m♦	12 Ø	#J	5.0	1 0	60 †	1.0†	40	10m	2.0Ø	1.0	40	160	2.0M§△	250m			T03	CØ
27	40421	660m	12	#J	5.0	1.0	75	1.5	50	1.0m	2.0	1.0	62	175	4.0M				T03	CØ
28	2N257	666m	45 Ø	#J	3.0	2.0	40	10	35 Ø	2.0m	2.0Ø	2.0	40 Ø		5.0k△	750m		A	T03	CØ
29	2N257B	666m	45 Ø	#J	3.0	2.0	40	20	35 Ø	5.0m	2.0Ø	2.0	50 Ø		5.0k△	500m		A	T03	CØ
30	2N257G	666m	45 Ø	#J	3.0	2 0	40	20	35 Ø	5.0m△	2.0Ø	2.0	40 Ø		5.0k△	750m		A	T03	CØ
31	2N257W	666m	45 Ø	#J	3.0	2.0	40	20	35 Ø	5.0m△	2.0Ø	2.0	60 Ø		5.0k△	500m		A	T03	CØ
32	2N268	666m	45 Ø	#J	3.0	2.0	80	40	60 Ø	2.0m	2.0Ø	2.0	40 Ø		6.0k△	1.0		A	T03	CØ
33	2N268A	666m	45 Ø	#J	3.0	2 0	80	20	60 Ø	2.0m	2.0Ø	2.0	80			500m		A△	T03	CØ
34	JAN2N297A	666m	50 Ø	#S		5.0 Ø	80	40	40	3.0m	2.0Ø	500m	40	100	5.0k△	350m			F4a	A
35	2N307A	666m	50 Ø	#J	5.0		35	10	35	2 0mØ	1.0Ø	200m	30	35 Ø	3.5k△	800m		A	T03	CØ
36	2N392	666m		#J	5.0 Ø	1.0	60	40	40	8.0m	2.0Ø	3.0	60	150	6.0k△	166m		Ge	T03	CØ
37	2N456A	666m	50 Ø	#J	7.0	3 0	40	20	20	2.0m♦	1.5Ø	5.0	30	90	200k§△	100m			T03	CØ
38	2N457A	666m	50 Ø	#J	7.0	3.0	60	20	30	2 0m♦	1.5Ø	5.0	30	90	200k§△	100m			T03	CØ
39	2N458A	666m	50 Ø	#J	7.0	3.0	80	20	40	2.0m♦	1.5Ø	5.0	30	90	200k§△	100m			T03	CØ
40	JAN2N463	666m	50 Ø	#S	5.0 Ø	1 0	60	50		300uØ	2.0Ø	2.0	20	60	5.0k△	80m			TO32	A
41	2N1011	666m	45 Ø	#J	5 0 Ø	1.0	80	40	40	20m	2 0	3.0	30	75	5.0k△	500m	5 0u	A	T03	CØ
42	JAN2N1011	666m	50 Ø	#S	5 0 Ø		80	40	40	10m	2.0Ø	3.0	30	75	5.0k△	500m			T03	C
43	2N1014	666mØ		#C	5.0	2.0	100	60	65	500uØ	1.5Ø	1.0			6.5k†		90u	A	T03	
44	2N1120	666m	45 Ø	#J	15 Ø	1.0	80	40	70 Ø	15m	2.0Ø	10	20	50	3.0k△	100m		A△	T041	CØ
45	2N1168	666m		#J	5.0 Ø	1.0	50	20	30 §§	8.0m	2.0Ø	1.0	110 Ø		10k△	83m		Ge	T03	CØ
46	2N1666	666mØ*	30 Ø	#J	6.0	1.0	80	40	60	100uØ	1.0Ø	6.0	15	30	250k†		20u	A△	F2	
47	2N2061	666m	10 §	#S	3.0	500m	20	10	10	2.0m	2.0Ø	500m	10	60	2.0k△	4.0			T03	CØ
48	2N2062	666m	10 §	#S	3.0	500m	20	10	10	2.0m	2.0Ø	2.0	20	200	2.0k△	500m			T03	CØ
49	2N2869	666m#	30 Ø	#J	10	3.0	60	10	50		2.0Ø	1.0	50	165	4.0k	250m		A	T03	CØ
50	2N2870	666m#	30 Ø	#J	10	3 0	80	10	50		2.0Ø	1.0	50	165	4.0k	100m		A	T03	CØ
51#	2SB41	666m	44 Ø	#J	1.2		40	12	32 Ø	2.0mØ	1.5Ø	1.0	35	160	5.0k			A	T03	
52#	2SB152	666m	50 Ø	#J	5.0	5.0 Ø	100	60	80 §	500uØ	1.5Ø	3.0	30	75	5.0k	200m		A	T03	
53	40022	666m♦	12 Ø	#J	5.0	1.0	32	5.0	32 §	1.0m	2.0Ø	1.0	38	70 Ø	300k§			A	T03	CØ
54	40050	666m♦	12 Ø	#J	5.0	1.0	40	5.0	40	500uØ	2.0Ø	1.0	50	90	500k§			A	T03	CØ
55	40051	666m♦	12 Ø	#J	5.0	1.0	50	5.0	50	500uØ	2.0Ø	1.0	50	90	500k§			A	T03	CØ
56	40254	666m♦	12 Ø	#J	5.0	1.0	32	5.0	32 §	3.0m	2.0Ø	1.0	30	70 Ø	300k§			A	T03	CØ
57	40439	666m	5.0	#J	10	4.0	320	2.0	320	200u						250m▼			T03	CØ
58	40440	666m	5 0	#J	10	4 0	200	2.0	200	200u						120m▼			T03	CØ
59	40462	666m	12	#J	5.0	1.0	40	5 0	40	500u	2.0	1.0	50	90	600k	200m▼			T03	CØ
60♦#	AD130	666m*	30 Ø	#J	3.0	500m	32	10	30		1.0Ø	1.0	20	100	350k§			A	T03	CØ
61♦#	AD131	666m*	30 Ø	#J	3.0	500m	64	20	45		1.0Ø	1.0	20	100	350k§			A	T03	CØ
62♦#	AD132	666m*	30 Ø	#J	3.0	500m	80	20	60		1.0Ø	1.0	30	100	350k§			AA	T03	CØ
63♦#	AD133	666m*	30 Ø	#J	15	2.0	50	10	32		.50Ø	5.0	20	60	300k§		25uØ	A△	T041	C
64♦#	AD140	666m	1.5	#J	3.0		55	10	40	100u	1.0Ø	1.0	30	100	430k	200m		A	T03	CØ
65♦#	AD142	666m	30 Ø	#J	10	3.0	80	10	80 Ø	100uØ	2.0Ø	1.0	30	170	450k§			A	T03	CØ
66♦#	AD143	666m	30 Ø	#J	10	3 0	40	10	40 Ø	100uØ	2.0Ø	1.0	30	170	450k§			A	T03	CØ
67♦#	AD150	666mⓅ	30 Ø	#J	3.5	500m	32	10	30		1.0Ø	1.0	30	100	450k§			A	T03	CØ
68♦#	AD163	666m	30 Ø	#J	3.0		100	20	80	150uØ	1.0Ø	1.0	13 †	60 †	350k§				T03	CØ
69#	AL100	666m	30 Ø	#J	10	3.0	130	2.0	130 Ø	100uØ	2.0Ø	1.0	40	250	4.0M§			D	T03	
70#	AL102	666m	30 Ø	#J	6.0	1.0	130	2.0	130 Ø	100uØ	2.0Ø	1.0	40	250	4.0M§			D	T03	
71#	AL103	666m	30 Ø	#J	6.0	1.0	100	1.5	130 Ø	100uØ	2 0Ø	1.0	40	250	3.0M§			D	T03	
72#	ASZ15†	666m*	30 Ø	#J	8.0	1.0	100	40	60	3.0m	1.0Ø	1.0	20	55	200k§	40m	25uⓅ		T03	CØ
73#	ASZ16†	666m*	30 Ø	#J	8.0	1.0	60	20	32	3.0m	1.0Ø	1.0	45	130	250k§	40m	25uⓅ		T03	CØ
74#	ASZ17†	666m*	30 Ø	#J	8.0	1.0	60	20	32	3.0m	1.0Ø	1.0	25	75	220k§	40m	25uⓅ		T03	CØ
75#	ASZ18†	666m*	30 Ø	#J	8 0	1.0	100	40	32	3.0m	1.0Ø	1.0	30	110	220k§	40m	25uⓅ		T03	CØ
76#	AU103†	666m	10 Ø♦	#J	10	2.5	155	4.0	155 #	10m	1.0Ø	10	15		15M§		1.7u	AD	T03	
77#	AU104	666m§	15 Ø	#J	12	2.5	185	4.0	185 #	10m	1.0Ø	12	14		15M§		1.8u	AD	T03	Ø
78#	AU106	666m	5.0 Ø	#J	10	4.0	320	2.0	320 Ø	200uØ	1.3Ø	6.0	15	80	2.0M§			D	T03	
79#	AU107	666m	30 Ø	*J	10	1.0	200	2.0	200 Ø	200uØ	2.0Ø	700m	35	120	2.0M§			D	T03	
80#	AU108	666m	30 Ø	*J	10	1 0	100	2.0	100 Ø	200uØ	2.0Ø	700m	35	200				D	T03	
81#	AU110	666m	30 Ø	#J	10	3.0	160	2.0	160 Ø	100uØ	2.0Ø	1.0	20	90				D	T03	
82#	AU111	666m	5.0 Ø	#J	10	4 0	320	2.0	320 Ø	200uØ	1.3Ø	6.0	15	80	2.0M§			D	T03	
83#	AU112	666m	5.0 Ø	#J	10	4.0	320	2.0	320 Ø	200uØ	1.3Ø	6.0	15	40	2.0M§			D	T03	
84#	AU113	666m	5.0 #	#J	10		250	3.0		200uØ	1.3Ø	6.0	15	80				D	T03	
85♦#	AUY19	666m*	30 Ø	#J	3.0		64	20	45		1.0Ø	1.0	20	100	350k§		10uØ	A△	T03	CØ
86♦#	AUY20	666m*	30 Ø	#J	3.0		80	20	60		1.0Ø	1.0	20	100	350k§		10uØ	A△	T03	CØ
87♦#	AUY21	666m*	30 Ø	#J	10		65	20	45		.50Ø	5.0	13	60	300k§		12uØ	A△	T041	CØ
88♦#	AUY22	666m*	30 Ø	#J	8.0		80	20	60		.50Ø	5.0	13	60	300k§		12uØ	A△	T041	CØ
89▼	AUY24	666m	56 Ø	♦J	3 0		65	20	45		.60Ø	1.0	30	50	350k§				T041	CØ
90▼	AUY26	666m	56 Ø	♦J	3.0		80	20	60		.60Ø	1.0	20	35	350k§				T041	CØ
91▼	AUY27	666m	56 Ø	♦J	3.0		80	20	60		.60Ø	1.0	30	50	350k§				T041	CØ
92♦#	AUY28	666m	30 Ø	#J	6.0	1.5	90	25	65	1.5m	1.5Ø	5.0	20	33 Ø	250k§		10u	A	T03	CØ
93♦#	AUY29	666m*	36 Ø	#J	15		50	10	32	1.0m	.50Ø	5.0	20	100	300k§		12uØ	A△	T041	CØ
94♦#	AUY34	666m	30 Ø	#J	3 0	500m	100	20	80		1.0Ø	1.0	13	60	350k§	500m			T03	CØ
95	CDT1310†	666m	45 Ø	#J	5.0	2.0	40	35	35 Ø	5.0m	2.0Ø	2.0	40	120	8.0k	300m	3.5u	A	T03	CØ
96	CDT1311†	666m	45 Ø	#J	5.0	2.0	60	35	50 Ø	5.0m	2.0Ø	2.0	40	120	8.0k	300m	3.5u	A	T03	CØ
97	CDT1312†	666m	45 Ø	#J	5.0	2.0	80	35	65 Ø	5.0m	2.0Ø	2.0	40	120	8.0k	300m	3.5u	A	T03	CØ
98	CDT1313†	666m	45 Ø	#J	5.0	2.0	100	35	75 Ø	5.0m	2.0Ø	2.0	40	120	8.0k	300m	3.5u	A	T03	CØ
99	CDT1319†	666m	45 Ø	#J	5.0	2.0	40	35	35 Ø	5.0m	2.0Ø	2.0	60		6.0k	300m	3.5u	A	T03	CØ
100	CDT1320†	666m	45 Ø	#J	5.0	2.0	60	35	50 Ø	5.0m	2.0Ø	2.0	20	60	6.0k	300m	3.5u	A	T03	CØ
101	CDT1321†	666m	45 Ø	#J	5.0	2.0	80	35	65 Ø	5.0m	2.0Ø	2.0	20	60	6.0k	300m	3.5u	A	T03	CØ
102	CDT1322†	666m	45 Ø	#J	5.0	2.0	100	35	75 Ø	5.0m	2.0Ø	2.0	20	60	6.0k	300m	3.5u	A	T03	CØ
103#	NKT420	666m	1.3	#J	5.0	1.0	120	50		150uØ	1.0Ø	1.0	30	90					F9c	CØ
104#	NKT451	666m	1.3	#J	3.0	500m	36	10		150uØ	1.0Ø	1.0	50	150					F9c	CØ
105#	NKT452	666m	1.3	#J	3.0	500m	36	10		150uØ	1.0Ø	1.0	30	90					F9c	CØ
106#	NKT453	666m	1.3	#J	3.0	500m	36	10		150uØ	1.0Ø	1.0	15	45					F9c	CØ
107♦#	OC28†	666mØ	30 Ø	#J	10	1.0	80	40	60	100uØ	1.0Ø	6.0	15	30	200k§		20u	A△	T03	CØ
108♦#	OC29†	666mØ	30 Ø	#J	10	1.0	60	20	48	100uØ	1.0Ø	6.0	35	80	250kt		20u	A△	T03	CØ
109♦#	OC35†	666mØ	30 Ø	#J	10	1.0	60	20	48	100uØ	1.0Ø	6.0	20	45	220k§		20u	A△	T03	CØ
110#	OC36†	666mØ	30 Ø	#J	8.0	1.0	80	40	32	100uØ	1 0Ø	1.0	30	110	250kt		20u	A△	T03	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C O A D E
1	2N457†	909m	50 Ø	#J	5.0 †	3 0	60 †	20†	60 #	2 0m	1.5Ø	1.0	130 Ø			48m	26u☑	A	TO3	CØ
2	2N458†	909m	50 Ø	#J	5 0 †	3 0	80 †	20†	80 #	2.0m	1.5Ø	1.0	130 Ø			48m	26u☑	A	TO3	CØ
3	2N173†	1.0		#J	15 Ø	4.0	60	40		8 0m	2.0Ø	5.0	35	70	10k		15u		TO36	CØ
4	2N277	1 0		#J	15 Ø	4.0	40	20	40	8.0m	2.0Ø	5.0	35	70	10k		15u		TO36	CØ
5	2N278	1.0		#J	15 Ø	4.0	50	30	45	8 0m	2.0Ø	5.0	35	70	10k		15u		TO36	CØ
6	2N301	1.0 ♦	11 Ø♦	#S	1.5 †		40 †	10†	32	3.0mØ♦	1.5Ø	700m		70						
7	2N301A	1 0 ♦	11 Ø♦	#S	1.5 †		60 †	10†	32	3.0mØ♦	1.5Ø	700m		70						
8	2N350	1.0 ♦	10 Ø♦	#J	3.0		40		30 Ø	3.0mØ	2.0Ø	700m	20	60	5.0kΔ	133m▼		A	TO3	CØ
9	2N351	1.0 ♦	10 Ø♦	#J	3.0		40		30 Ø	3.0mØ	2.0Ø	700m	25	90	5.0kΔ	133m▼		A	TO3	CØ
10	2N376	1.0 ♦	10 Ø♦	#J	3.0		40		30 Ø	3.0mØ	2.0Ø	700m	35	120	5.0kΔ	133m▼		A	TO3	CØ
11	2N441†	1.0		#J	15 Ø	4.0	40	20		8.0m	2.0Ø	5.0	20	40	10k		15u		TO36	CØ
12	2N442†	1.0		#J	15 Ø	4.0	50	30		8.0m	2.0Ø	5.0	20	40	10k		15u		TO36	CØ
13	2N443†	1.0		#J	15 Ø	4.0	60	40		8.0m	2.0Ø	5.0	20	40	10k		15u		TO36	CØ
14	2N554	1.0 ♦	10 Ø♦	#J	3.0		40			50uØ	2.0Ø	500m	30 Ø		8.0k	200m▼		A	TO3	CØ
15	2N555	1.0 ♦	10 Ø♦	#J	3.0		40			50uØ	2.0Ø	500m	20	30 Ø	8.0k	200m▼		A	TO3	CØ
16	2N1046	1.0 #	50 Ø	#J	12	3 0	100	1.5	50	2.0mØ	1.5Ø	5.0	40		10M§Δ	80m			TO3	CØ
17	2N1046A	1.0	50 Ø	#J	12	3.0	130	1.5	50	2.0mØ♦	1.5Ø	5.0	40		15M§Δ	80m			TO3	CØ
18	2N1046B	1.0	50 Ø	#J	12	3.0	130	1.5	50	2.0mØ♦	1.5Ø	10	2.0		15M§Δ	90m			TO3	CØ
19	JAN2N1412	1.0	70 Ø	#J			100	60	65	6.0m	2.0Ø	5.0	25	50	5.0kΔ	50m			T63	BØ
20	2N1412A	1.0	70 Ø	#J	10		100	60	70	6.0m	2.0Ø	5.0	25	50	5.0kΔ	50m			T63	CØ
21	JAN2N1412A	1.0	70 Ø	#J			100	60	70	6.0m	2.0Ø	5.0	25	50	5.0kΔ	50m			T63	BØ
22	2N2069	1.0	20 §	#S	12	3.0	40	20	30 Ø	15m	2.0Ø	5.0	30	200	1.5kΔ	125m			TO3	CØ
23	2N2070	1.0	20 §	#S	12	3.0	80	30	60 Ø	15m	2.0Ø	5.0	30	200	1.5kΔ	125m			TO3	CØ
24	2N2071	1.0	20 §	#S	12	3.0	40	20	30 Ø	15m	2.0Ø	5.0	30	200	1.5kΔ	125m			TO41	CØ
25	2N2072	1.0	20 §	#S	12	3.0	80	30	60 Ø	15m	2.0Ø	5.0	30	200	1.5kΔ	125m			TO41	CØ
26	2N2210	1.0	70	#J	15	4.0	100	60	65	4.0m♦	2.0Ø	5.0	25	50	5.0kΔ	50m			R167	CØ
27	2N2444	1.0	85 Ø	♦C	10	3 0	80 †	1.0†	80	20m	2.0Ø	3.0	90	120	4.5M§Δ	200m			TO3	CØ
28	2N2526†	1.0	85 Ø	♦C	10	5 0	80	5.0	80	3.0m	2.0Ø	3.0	20	50		80m	11u☑Ø		F4j	CØ
29	2N2527†	1 0	85 Ø	♦C	10	5 0	120	5.0	120	3.0m	2.0Ø	3.0	20	50		80m	11u☑Ø		F4j	CØ
30	2N2528†	1.0	85 Ø	♦C	10	5.0	160	5.0	160	3.0m	2.0Ø	3.0	20	50		80m	11u☑Ø		F4j	CØ
31▼	JAN2N2528†	1.0	85 Ø	♦J	10		160	5.0	160	3.0m	2.0Ø	3.0	20	50		80m	4.0u☑		TO3	CØ
32	2N2612	1.0	75 Ø	#C	15	5.0	65	30	65 #	500mΔ♦	2.0Ø	3.0	85	250	2.0kΔ	1.0			TO3	CØ
33	2N2832†	1.0	85 Ø	♦C	20	5 0	80	2.0	50	10m	2.0Ø	10	25	100	10M§Δ	150m	4.0u		TO3	CØ
34	2N2833†	1.0	85 Ø	♦C	20	5.0	120	2.0	75	10m	2.0Ø	10	25	100	10M§Δ	150m	4.0u		TO3	CØ
35	2N2834†	1 0	85 Ø	♦C	20	5.0	140	2.0	100	10m	2.0Ø	10	25	100	10M§Δ	150m	4.0u		TO3	CØ
36	JAN2N2834†	1.0	85 Ø	♦J	20		160	2 0	100	10m	2.0Ø	10	25 #	100	10M§Δ	150m	4.0u		F4e	CØ
37	2N2912†	1.0	75 Ø	♦A	25	3 0	15	1.5	5.0	10m#	2.0Ø	5.0	200	800	10M§Δ	20m	2.0u		R74	AØ
38#	2SB235	1.0	60 Ø	#J	15	15 Ø	80	25	80 Ø	10mØ	2.0Ø	5.0	25	200	200kf△	50m		A	TO36	
39	3N45†	1.0		#J	12 Ø	500m	60	28	60	3 0m	2.0Ø	5.0	30	120 #	16k		3.0u	A$	TO15	GB
40	3N46†	1.0		#J	12 Ø	500m	80	28	80	3 0m	.20Ø	5.0	20	80	12k		6.0u	A$	TO15	GB
41	3N47	1 0	75 Ø	#J	12 Ø	1.5	40	28	25	3.0m	2.0Ø	5.0	30	120	500kΔ	80m			TO15	GBØ
42	3N48	1.0	75 Ø	#J	12 Ø	1 5	60	28	40	3.0m	2.0Ø	5.0	20	80	300kΔ	80m			TO15	GBØ
43	CTP1505	1 0		#J	13		60		45		2.0Ø	5.0	15	45		.13				
44	CTP1512	1 0		#J	13		80		60		2 0Ø	5.0	60	120						
45#	CTP1544	1.0	1 7 *	#J	25		60	30	30	15m	2.0Ø	25	25 †	125 †	4.0k	40m			TO3	
46#	CTP1552	1.0	1 7 *	#J	25		40	30	20	15m	2.0Ø	25	25 †	125 †	4.0k	40m			TO3	
47	DTG110A	1.0		♦J	15	5.0		2 8	70		2.0Ø	1.0	50	300 *	850k§Δ				Y204a	CØ
48	DTG600†	1.0 †	60 Ø	♦J	15	5 0		1.4	50	20m#	2.0Ø	5.0	50			30m	12u☑		Y204a	CØ
49	DTG601†	1 0 †	60 Ø	♦J	15	5.0		1.4	60	20m#	2.0Ø	5.0	50			30m	12u☑		Y204a	CØ
50	DTG602†	1 0 †	60 Ø	♦J	15	5.0		1.4	70	20m#	2.0Ø	5.0	50			30m	12u☑		Y204a	CØ
51	DTG603†	1.0 †	60 Ø	♦J	15	5.0		1.4	80	20m#	2.0Ø	5.0	50			30m	12u☑		Y204a	CØ
52	DTG603M†	1.0 †	60 Ø	♦J	15	2 5		1.4	80	100m*	2.0Ø	5.0	50	250 *			13u☑		Y204a	CØ
53	DTG2000†	1.0 †	60 Ø	♦J	15	5.0		1.0	30	100mΔ	2.0Ø	8.0	25		250k§	36m	9.0uØ		Y204a	CØ
54	DTG2100†	1.0 †	60 Ø	♦J	15	5.0		1.0	60	100mΔ	2.0Ø	8.0	25		250k§	36m	9.0uØ		Y204a	CØ
55	DTG2200†	1.0 †	60 Ø	♦J	15	5.0		1.0	80	100mΔ	2.0Ø	8.0	25		250k§	36m	9.0uØ		Y204a	CØ
56	DTG2300†	1.0 †	60 Ø	♦J	15	5.0		1.0	100	100mΔ	2.0Ø	8.0	25		250k§	36m	9.0uØ		Y204a	CØ
57	DTG2400†	1.0 †	60 Ø	♦J	15	5.0		1.0	120	100mΔ	2.0Ø	8.0	25		250k§	36m	9.0uØ		Y204a	CØ
58	DTG2400M†	1.0 †	60 Ø	♦J	15	5.0		1.5	120	20m#	2.0Ø	10	25	125 #		36m	18u☑		Y204a	CØ
59▼	HSE803-RT	1.0	77 Ø	#J			60	20	35	1.0mØ	2.0Ø	500m	30		100k§Δ				TO3	CØ
60▼	HSE812-RT	1.0	77 Ø	#J			60	20	35	1.0mØ	2.0Ø	200m	20		100k§Δ				TO3	CØ
61▼	HSE814-RT	1.0	77 Ø	#J			60	20	35	1.0mØ	2.0Ø	200m	80		100k§Δ				TO3	CØ
62	MP600†	1.0	85 Ø	♦J	25	5.0	75	1.5	50	200uØ	2.0Ø	5.0	50			30m	10u☑	ADE	F4r	CØ
63	MP600A†	1.0	85 Ø	♦J	25	5.0	75	1.5	50	200uØ	2.0Ø	5.0	50			30m	10u☑	D	F4s	CØ
64	MP601†	1.0	85 Ø	♦J	25	5.0	75	1.5	60	200uØ	2.0Ø	5.0	50			30m	10u☑	ADE	F4r	CØ
65	MP601A†	1.0	85 Ø	♦J	25	5.0	75	1.5	60	200uØ	2.0Ø	5.0	50			30m	10u☑	D	F4s	CØ
66	MP602†	1 0	85 Ø	♦J	25	5.0	90	1.5	70	200uØ	2.0Ø	5.0	50			30m	10u☑	ADE	F4r	CØ
67	MP602A†	1.0	85 Ø	♦J	25	5.0	90	1.5	70	200uØ	2.0Ø	5.0	50			30m	10u☑	D	F4s	CØ
68	MP603†	1.0	85 Ø	♦J	25	5 0	90	1.5	80	200uØ	2.0Ø	5.0	50			30m	10u☑	ADE	F4r	CØ
69	MP603A†	1 0	85 Ø	♦J	25	5.0	90	1.5	80	200uØ	2.0Ø	5.0	50			30m	10u☑	D	F4s	CØ
70	MP1612	1.0	85	♦J	20		70	2 0	50			10	25	100	18M§	.03			TO3	CØ
71	MP1612A	1.0	85	♦J	20		110	2.0	75			10	25	100	18M§	.03			TO3	CØ
72	MP1612B	1.0	85	♦J	20		13	2.0	100			10	25	100	18M§	.03			TO3	CØ
73	MP1613	1.0	85	♦J	7 0	2 0	100	50	75	5.0m	2.0Ø	1.0	40	70 Ø					TO3	CØ
74	MP2060	1.0	85 Ø	♦C	7.0	2.0	40	20	25	1.0mØ	2.0Ø	3.0	30	200	600k§			A	TO3	CØ
75	MP2061	1.0	85 Ø	♦C	7.0	2 0	60	20	35	1.0mØ	2.0Ø	3.0	30	200	600k§			A	TO3	CØ
76	MP2062	1.0	85 Ø	♦C	7.0	2.0	75	20	50	1.0mØ	2.0Ø	3.0	30	200	600k§			A	TO3	CØ
77	MP2063	1.0	85 Ø	♦C	7.0	2.0	90	20	60	1.0mØ	2.0Ø	3.0	30	200	600k§			A	TO3	CØ
78♦#	OC19	1.0	50 Ø	#J	3.0		32	10	32	100uØ	1.0Ø	2.0	10	56	200k	266m		A	TO3	CØ
79♦#	OC20	1.0	1.3	#J	8.0		100	40	75	20mØ	1.0Ø	6.0	20	45	250k	133m		A	TO3	CØ
80	SDG600	1.0	85 Ø	♦J	10	1.0	75	1.5	50		2.0Ø	5.0	50			30m▼			TO3	CØ
81	SDG601	1.0	85 Ø	♦J	10	1.0	75	1.5	60		2.0Ø	5.0	50			30m▼			TO3	CØ
82	SDG602	1 0	85 Ø	♦J	10	1.0	75	1.5	70		2.0Ø	5.0	50			30m▼			TO3	CØ
83	SDG603	1.0	85 Ø	♦J	10	1.0	90	1.5	80		2.0Ø	5.0	50			30m▼			TO3	CØ
84	2N174†	1.2 §	30 Ø	#J	15 Ø	4.0	80	60		8.0m	2.0Ø	5.0	25	50	10k		15u		TO36	CØ
85	2N174A†	1.2 §	30 Ø	#J	15	4.0	80	60		8.0m	2.0Ø	1.2	40	80	100kΔ	58m	15u		TO36	CØ
86	2N176	1.2	90 Ø	#J	3.0		40		30 Ø	3.0mØ	2.0Ø	500mØ	25	90	7.0k	800m		A	TO3	CØ
87	2N178	1.2	40 Ø	#J	3.0		30	20	30	3.0mØ	2.0Ø	500m	15	45	6.0k	800m		A	TO3	CØ
88	2N250A	1.2	90 Ø	#J	7.0	2.0	40	20	25 ☑	1.0mØ♦	1.5Ø	3.0	25	100	160k§Δ	230m			TO3	CØ
89	2N251A	1 2	90 Ø	#J	7.0	2.0	60	20	35 ☑	2.0mØ♦	1.5Ø	3.0	25	100	160k§Δ	230m			TO3	CØ
90	2N350A	1.2		#C	5.0	5.0 Ø	50	25	40 Ø	20m♦	2.0Ø	700m	20	60	5.0kΔ	583m			TO3	CØ
91	2N351A	1.2		#C	5.0	5.0 Ø	50	25	40 Ø	20m♦	2 0Ø	700m	25	90	5.0kΔ	437m			TO3	CØ
92	2N376A	1.2		#C	5.0	5.0 Ø	50	25	40 Ø	20m♦	2.0Ø	700m	35	120	5.0kΔ	350m			TO3	CØ
93	2N459A	1.2	106 Ø	♦C	5.0	3.0	105	25	60	500uØ♦	2.0Ø	2.0	40	70	5.0k§Δ	150m			F4a	CØ
94	2N589	1.2	90	J	3.0		100	50	7.5 Ø	2.0mØ	2.0Ø	3.0 Ø	20	40				A	TO3	
95	2N627	1.2		#J	10	10 Ø	40	20	20	20m♦	2.0Ø	10	10	30	5.0kΔ	100m			TO3	CØ
96	2N628	1.2		#J	10	10 Ø	60	30	30	20m♦	2.0Ø	10	10	30	5.0kΔ	100m			TO3	CØ
97	2N629	1.2		#J	10	10 Ø	80	40	40	20m♦	2.0Ø	10	10	30	5.0kΔ	100m			TO3	CØ
98	2N630	1.2		#J	10	10 Ø	100	50	50	20m♦	2.0Ø	10	10	30	5.0kΔ	100m			TO3	CØ
99	2N669	1.2		#J	3.0	3.0 Ø	40	20	20	20m♦	2.0Ø	500m		250	3.0kΔ	133m▼			TO3	CØ
100	2N677	1.2		#J	15		50	25	20	15m♦	2.0Ø	10	20	60		100m			TO3	CØ
101	2N677A	1.2		#J	15		60	25	30	15m♦	2 0Ø	10	20	60		100m			TO3	CØ
102	2N677B	1.2		#J	15		90	25	60	15m♦	2.0Ø	10	20	60		100m			TO3	CØ
103	2N677C	1 2		#J	15		100	25	70	15m♦	2.0Ø	10	20	60		100m			TO3	CØ
104	2N678	1.2		#J	15		50	25	20	15m♦	2.0Ø	10	50	100		100m			TO3	CØ
105	2N678A	1.2		#J	15		60	25	30	15m♦	2.0Ø	10	50	100		100m			TO3	CØ
106	2N678B	1.2		#J	15		90	25	60	15m♦	2.0Ø	10	50	100		100m			TO3	CØ
107	2N678C	1 2		#J	15		100	25	70	15m♦	2.0Ø	10	50	100		100m			TO3	CØ
108	2N1021	1.2 $	90 Ø	#J	7.0	3.0	100	20	50	2.0m	1.5Ø	5.0	30	90	200k	100m		AΔ	TO3	CØ
109	2N1022	1.2 $	90 Ø	#J	7.0	3.0	120	20	55	2.0m	1.5Ø	5.0	30	90	200k	100m		A	TO3	CØ
110	2N1031	1.2	90 Ø	#J	15	1.5	50	25	30 Ø	15m	2.0Ø	10	20	60		100m	15u	AΔ	TO41	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AX P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	BIAS Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	JAN2N1652†	1.2	100 Ø	♦J	25		100	1.5	60	5.0m	2.0Ø	10	35	105		26m	10uØ		TO41 CØ
2	2N1653	1.2	100 Ø	♦J	25		120	1.5	80	20m♦	2.0Ø	10	35	140		26m			TO41 CØ
3	JAN2N1653†	1.2	100 Ø	♦J	25		120	1.5	80	5.0m	2.0Ø	10	35	105		26m	10uØ		TO41 CØ
4	2N1751	1.2		♦C	25	25 Ø	80	2.5	80	5.0m♦	1.5Ø	20	30	90	1.5M†Δ	25m		DA	TO3 CØ
5	2N1970	1.2	93 Ø	#S	15 Ø	4.0	100	40	50	4.0m	2.0Ø	5.0	17	40	5.0kΔ			Δ	TO36 CØ
6	2N2061A†	1.2	90 Ø	#C	5 0	3.0	20	10	15	2.0m♦	2.0Ø	2.0	20	60	5.0kΔ	200m	12u†Ø		TO3 CØ
7	2N2062A†	1.2	90 Ø	#C	5.0	3.0	20	10	15	2.0m♦	2.0Ø	2.0	50	140	1.0kΔ	140m	12u†Ø		TO3 CØ
8	2N2063A†	1.2	90 Ø	#C	5.0	3.0	40	20	20	2.0m♦	2.0Ø	2.0	20	60	5.0kΔ	200m	12u†Ø		TO3 CØ
9	2N2064A†	1.2	90 Ø	#C	5.0	3.0	40	20	20	2.0m♦	2.0Ø	2.0	50	140	1.0kΔ	140m	12u†Ø		TO3 CØ
10	2N2065A†	1.2	90 Ø	#C	5.0	3.0	80	30	40	5.0m♦	2.0Ø	2.0	20	60	5.0kΔ	200m	12u†Ø		TO3 CØ
11	2N2066A†	1.2	90 Ø	#C	5.0	3.0	80	30	40	5.0m♦	2.0Ø	2.0	50	140	1.0kΔ	140m	12u†Ø		TO3 CØ
12	2N2211	1.2	90 Ø	#	5.0	3.0	80	40	60 Ø	20m	4.0Ø	1.0	60	140	5.0k				TO3
13	2N2212	1.2 †	60 Ø	♦J	10	3.0	120	1.5	120	2.0mØ	2.0Ø	5.0	50	120	450k§Δ	200m			TO41 CØ
14	2N2285	1.2	100 Ø	♦C	25	5.0	60 †	1.5†	30	5.0m	2.0Ø	10	35	140					TO3 CØ
15	2N2286	1.2	100 Ø	♦C	25	5.0	100 †	1.5†	60	5.0m	2.0Ø	10	35	140					TO3 CØ
16	2N2287	1.2	100 Ø	♦C	25	5.0	120 †	1.5†	80	5.0m	2.0Ø	10	35	140					TO3 CØ
17	2N2445	1.2	90 Ø	#C	15	3.0	100	50	50	20m♦	2.0Ø	10	30	60	100k§Δ	100m			TO41 CØ
18	2N2446†	1.2	90 Ø	♦C	7.0	5.0	60	20	50	2.0m♦	2.0Ø	5.0	15	45	3.0k§Δ	214m	30uØØ		TO3 CØ
19	2N2636†	1.2	100 Ø	♦C	25	2.5	100 †	1.5†	60	10m♦	2.0Ø	25	20	80		26m			TO41 CØ
20	2N2637†	1.2	100 Ø	♦C	25	2.5	100 †	1.5†	60	10m♦	2.0Ø	25	20	80		26m			TO41 CØ
21	2N2638†	1.2	100 Ø	♦C	25	2.5	100 †	1.5†	60	10m♦	2.0Ø	25	20	80		26m			TO41 CØ
22	2N2691†	1.2	100 Ø	♦C	20	5.0	100 †	1.5†	80	5.0m♦	1.5Ø	20	30	100	60k§Δ	32m	700uØ		TO41 CØ
23	2N3124	1.2	90 Ø	#C	15	5.0	40	20	30 Ø	20m	2.0Ø	10	50	100	2.5kΔ	50m			TO41
24	2N3125	1.2	90 Ø	#C	3.3	1.7	80	40	80 Ø	15m	2.0Ø	3.0	30	75	5.0kΔ	500m			TO41
25	2N3126	1.2	90 Ø	#C	15	3.0	100	12	75 Ø	3.0mØ	2.0Ø	10	10	30	6.0kΔ	100m			TO41
26	2N3132	1.2	90 Ø	#C	5.0	5.0	100	40	70 Ø	5.0m#♦	2.0Ø	2.0	40	200	3.0kΔ	300m	20uØØ	Δ	TO3 CØ
27	2N4242	1.2	106 Ø	♦J	10	3.0	80	40	70 Ø	2.0m	2.0Ø	5.0	40	80		75m			TO3 CØ
28	2N4243	1.2	106 Ø	♦J	10	3.0	60	30	55 Ø	2.0m	2.0Ø	5.0	40	80		75m			TO3 CØ
29	2N4244	1.2	106 Ø	♦J	10	3.0	40	20	40 Ø	2.0m	2.0Ø	5.0	40	80		75m			TO3 CØ
30	2N4245	1.2	106 Ø	♦J	10	3.0	80	40	70 Ø	2.0m	2.0Ø	5.0	60	120		75m			TO3 CØ
31	2N4246	1.2	106 Ø	♦J	10	3.0	60	30	55 Ø	2.0m	2.0Ø	5.0	60	120		75m			TO3 CØ
32	2N4247	1.2	106 Ø	♦J	10	3.0	40	20	40 Ø	2.0m	2.0Ø	5.0	60	120		75m			TO3 CØ
33	2N5156†	1.2	93 Ø	#J	10	2.0	100	60	60	4.0m	2.0Ø	5.0	25	60	150k§Δ	100m	20u		TO3 CØ
34	3N49	1.2	94 Ø	#J	15 Ø	2.0	60	28	35	3 0m	2.0Ø	5 0	30	120	600kΔ	80m			T70 GKØ
35	3N50	1.2	94 Ø	#J	15 Ø	2.0	80	28	50	3.0m	2.0Ø	5.0	20	80	300kΔ	80m			T70 GKØ
36	3N51	1.2	94 Ø	#J	15 Ø	2.0	40	28	25	3.0m	2.0Ø	5.0	30	120	500kΔ	80m			T70 GKØ
37	3N52	1.2	94 Ø	#J	15 Ø	2.0	60	28	40	3.0m	2.0Ø	5.0	20	80	300kΔ	80m			T70 GKØ
38♦#	ADY26†	1.2	100 Ø	#J	25	3.0	80	40	60	4.0m	0.0	25 Δ	15 #	25 Ø	100k§		25uØ	A	ZA4 Ø
39♦#	ADZ11	1.2 #	45 Ø	#J	20	2.0	50	30	40	8.0m	2.0Ø	1.2	40	120	80k†Δ	66m		AD	ZA4 Ø
40♦#	ADZ12	1.2 #	45 Ø	#J	20	2.0	80	50	60	8.0m	2.0Ø	1.2	40	120	100k†Δ	66m		AD	ZA4 Ø
41	CQT940A	1.2	90 Ø	#J	15	5.0	100	20	85 Ø		2.0Ø	10	20			90m		A	T03 CØ
42	CQT940B	1.2	90 Ø	#J	15	5.0	80	60	60 Ø		2.0Ø	7.0	30			90m		A	T03 CØ
43	CQT1110	1.2	90 Ø	#J	5.0		40	10	30	2 0mØ	2.0Ø	1.0	50	250	250k§	200m			T03 A
44	CQT1110A	1.2	90 Ø	#J	5.0		40	10	30	2.0mØ	2.0Ø	1.0	50	250 *	250k§	200m			T03 A
45	CQT1111	1.2	90 Ø	#J	5.0		60	10	50	2.0mØ	2.0Ø	1.0	50	250	250k§	200m			T03 A
46	CQT1111A	1.2	90 Ø	#J	5.0		60	10	50	2.0mØ	2.0Ø	1.0	50	250 *	250k§	200m			T03 A
47	CQT1112	1.2	90 Ø	#J	10		65	65	65	2.0mØ	2.0Ø	1.0	75	300	250k§	100m			T03 A
48	CTP1500	1.2	90 Ø	#J	15	5.0	100	30	80 Ø	8.0m	2.0Ø	5.0	30	75		70m		AΔ	T03 CØ
49	CTP1504	1.2	90 Ø	#J	15	5.0	60	30	50 Ø	8.0m	2.0Ø	5.0	30	75		70m		AΔ	T03 CØ
50	CTP1508	1.2	90 Ø	#J	15	5.0	40	30	40 Ø	8.0m	2.0Ø	5.0	30	75		70m		AΔ	T03 CØ
51	CTP3500	1.2	90 Ø	#J	15	5.0	100	30	80 Ø	8.0m	2.0Ø	5.0	30	75		70m		AΔ	T041 CØ
52	CTP3503	1.2	90 Ø	#J	15	5.0	80	30	70 Ø	8.0m	2.0Ø	5.0	30	75		70m		AΔ	T041 CØ
53	CTP3504	1.2	90 Ø	#J	15	5.0	60	30	50 Ø	8.0m	2.0Ø	5.0	30	75		70m		AΔ	T041 CØ
54	CTP3508	1.2	90 Ø	#J	15	5.0	40	30	40 Ø	8.0m	2.0Ø	5.0	30	75		70m		AΔ	T041 CØ
55	CTP3544	1.2	90 Ø	#J	25	5.0	60	30	40 Ø	15m	2.0Ø	25	25	125	5.0k	40m		AΔ	T041 CØ
56	CTP3545	1.2	90 Ø	#J	25	5.0	80	30	60 Ø	15m	2.0Ø	25	25	125	5.0k	40m		AΔ	T041 CØ
57	CTP3552	1.2	90 Ø	#J	25	5.0	40	30	30 Ø	10m	2.0Ø	25	25	75	5.0k	40m		AΔ	T041 CØ
58	CTP3553	1.2	90 Ø	#J	25	5.0	100	30	75 Ø	10m	2.0Ø	25	25	75	5.0k	40m		AΔ	T041 CØ
59	DTG110	1.2	7.5 ▼	♦J	7.0	1.0		20	65	200u	2.0Ø	1.0	74	250 *	200k§Δ	250m		Δ	Y204a CØ
60	DTG110B	1.2 †	75 Ø	♦J	15	5.0		2.0	40	10m*	2.0Ø	1.0	65	300 *	500k§Δ	100m			Y204a CØ
61	DTG1010†	1.2	106 Ø	♦J	15	3.0		1.0	325 #	15m#					450k§	160m	6.0u	A	T03 CØ
62	DTG1110†	1.2	106 Ø	♦J	15	3.0		1.0	200 #	15m#					450k§	160m	6.0u	A	T03 CØ
63	DTG1200	1.2	106 Ø	♦J	15	3.0		1.0	120 Ø	100mΔ	.50Ø	8.0	22			41m		A	T03 CØ
64▼	HSE802-RT	1.2	90 Ø	#J			50	20	30	3.0m	2.0Ø	500m	50		100k§Δ				T03 CØ
65▼	HSE805-RT	1.2	90 Ø	#J			65	20	50	1.0mØ	2.0Ø	200m	50		100k§Δ				T03 CØ
66▼	HSE811-RT	1.2	90 Ø	#J			40	10	25	3.0mØ	2.0Ø	200m	30		100k§Δ				T03 CØ
67	MP110	1.2	106 Ø	♦J	7.0	2.0			65 #	2.0mØ	2.0Ø	1.0	74	250	320k§			A	T03 CØ
68	MP110B	1 2	106 Ø	♦J	25	5.0	90	2.0	40	200uØ	2.0Ø	1.0	65	300 *	500k§Δ	100m		ADEΔ	T03 CØ
69	MP249A	1.2	90 Ø	#J	6.0	1.0	90		55 *	5.0u	5.0Ø	3.0	50	100	4.0kΔ	4.0			
70	MP525	1.2	106	♦J	10				60	200uØ	2.0Ø	3.0	30	200 *					T03 CØ
71	MP1077	1.2	106 Ø	♦J	25		100	100	45	2.0 Ø	2.0Ø	3.0	75						T03 CØ
72	MP1529†	1.2	90 Ø	♦J	5.0		40	20	20	2.0mØ	2.0Ø	3.0	20	40		500m	8.0uØ	A	T041 CØ
73	MP1530†	1.2	90 Ø	♦J	5.0		60	30	30	2.0mØ	2.0Ø	3.0	20	40		500m	8.0uØ	A	T041 CØ
74	MP1531†	1.2	90 Ø	♦J	5.0		80	40	40	2.0mØ	2.0Ø	3.0	20	40		500m	8.0uØ	A	T041 CØ
75	MP1532†	1.2	90 Ø	♦J	5.0		100	50	50	2.0mØ	2.0Ø	3.0	20	40		500m	8.0uØ	A	T041 CØ
76	MP1533†	1.2	90 Ø	♦J	5.0		120	60	60	2.0mØ	2.0Ø	3.0	20	40		400m	8.0uØ	A	T041 CØ
77	MP1534†	1.2	90 Ø	♦J	5.0		40	20	20	2.0mØ	2.0Ø	3.0	35	70		400m	8.0uØ	A	T041 CØ
78	MP1535†	1.2	90 Ø	♦J	5.0		60	30	30	2.0mØ	2.0Ø	3.0	35	70		400m	8.0uØ	A	T041 CØ
79	MP1536†	1.2	90 Ø	♦J	5.0		80	40	40	2.0mØ	2.0Ø	3.0	35	70		400m	8.0uØ	A	T041 CØ
80	MP1537†	1.2	90 Ø	♦J	5.0		100	50	50	2.0mØ	2.0Ø	3.0	35	70		400m	8.0uØ	A	T041 CØ
81	MP1538†	1.2	90 Ø	♦J	5.0		120	60	60	2.0mØ	2.0Ø	3.0	35	70		400m	8.0uØ	A	T041 CØ
82	MP1539	1.2		#C	5.0	5.0 Ø	40	20	30 Ø	200u♦Ø	2.0Ø	3.0	50	100	1.0k	100m			T041 CØ
83	MP1540	1.2		#C	5.0	5.0 Ø	60	30	45 Ø	200u♦Ø	2.0Ø	3.0	50	100	1.0k	100m			T041 CØ
84	MP1541	1.2		#C	5.0	5.0 Ø	80	40	60 Ø	200u♦Ø	2.0Ø	3.0	50	100	1.0k	100m			T041 CØ
85	MP1542	1.2		#C	5.0	5.0 Ø	100	50	75 Ø	200u♦Ø	2.0Ø	3.0	50	100	1.0k	100m			T041 CØ
86	MP1543	1.2		#C	5.0	5.0 Ø	120	60	90 Ø	200u♦Ø	2.0Ø	3.0	50	100	1.0k	100m			T041 CØ
87	MP1544	1.2		#C	5.0	5.0 Ø	40	20	20	20m♦	2.0Ø	3.0	75	150	1.0k	66m			T041 CØ
88	MP1545	1.2		#C	5.0	5.0 Ø	60	30	30	20m♦	2.0Ø	3.0	75	150	1.0k	66m			T041 CØ
89	MP1546	1.2		#C	5.0	5.0 Ø	80	40	40	20m♦	2.0Ø	3.0	75	150	1.0k	66m			T041 CØ
90	MP1547	1.2		#C	5.0	5.0 Ø	100	50	50	20m♦	2.0Ø	3.0	75	150	1.0k	66m			T041 CØ
91	MP1548	1.2		#C	5.0	5.0 Ø	120	60	60	20m♦	2.0Ø	3.0	75	150	1.0k	66m			T041 CØ
92	MP1549	1.2	90 Ø	#J	15		40	20	20	3.0mØ	2.0Ø	10	10	30	10k	100m	5.0uØ	A	T041 CØ
93	MP1550	1.2	90 Ø	#J	15		60	30	30	3.0mØ	2.0Ø	10	10	30	10k	100m	5.0uØ	A	T041 CØ
94	MP1551	1.2	90 Ø	#J	15		80	40	40	3.0mØ	2.0Ø	10	10	30	10k	100m	5.0uØ	A	T041 CØ
95	MP1552	1.2	90 Ø	#J	15		100	50	50	3.0mØ	2 0Ø	10	10	30	10k	100m	5.0uØ	A	T041 CØ
96	MP1553	1.2	90 Ø	#J	15		40	20	20	3.0mØ	2.0Ø	10	30	60	6.0k	70m	10uØ	A	T041 CØ
97	MP1554	1.2	90 Ø	#J	15		60	30	30	3.0mØ	2.0Ø	10	30	60	6.0k	70m	10uØ	A	T041 CØ
98	MP1555	1.2	90 Ø	#J	15		80	40	40	3.0mØ	2.0Ø	10	30	60	6.0k	70m	10uØ	A	T041 CØ
99	MP1556	1.2	90 Ø	#J	15		100	50	50	3.0mØ	2.0Ø	10	30	60	6.0k	70m	10uØ	A	T041 CØ
100	MP1557	1.2	90 Ø	#J	15		40	20	20	3.0mØ	2 0Ø	10	50	100	5.0k	50m	10uØ	A	T041 CØ
101	MP1558	1.2	90 Ø	#J	15		60	30	30	3.0mØ	2.0Ø	10	50	100	5.0k	50m	10uØ	A	T041 CØ
102	MP1559	1.2	90 Ø	#J	15		80	40	40	3.0mØ	2.0Ø	10	50	100	5.0k	50m	10uØ	A	T041 CØ
103	MP1560	1.2	90 Ø	#J	15		100	50	50	3.0mØ	2.0Ø	10	50	100	5.0k	50m	10uØ	A	T041 CØ
104	MP2000A†	1.2	106 Ø	♦J	25	5.0		2.0	30	200u	2.0Ø	8.0	25		430k§	24m	11uØ	DPE	F4r CØ
105	MP2000B	1.2	106 Ø	♦J	25	5.0		2.0	30	200u	2.0Ø	8.0	25		430k§	24m	11uØ	D	F4s CØ
106	MP2100A†	1.2	106 Ø	♦J	25	5.0		2.0	60	200u	2.0Ø	8.0	25		430k§	24m	11uØ	DPE	F4r CØ
107	MP2100B	1.2	106 Ø	♦J	25	5.0		2.0	60	200u	2.0Ø	8.0	25		430k§	24m	11uØ	D	F4s CØ
108	MP2200A†	1.2	106 Ø	♦J	25	5.0		2.0	80	200u	2.0Ø	8.0	25		430k§	24m	11uØ	DPE	F4r CØ
109	MP2200B	1.2	106 Ø	♦J	25	5.0		2.0	80	200u	2.0Ø	8.0	25		430k§	24m	11uØ	D	F4s CØ
110	MP2300A†	1.2	106 Ø	♦J	25	5.0		2.0	100	200u	2.0Ø	8.0	25		430k§	24m	11uØ	DPE	F4r CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AE XM P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG #L Y200 s/a TO200 Ser.	C O A D E
1	2N2155A	2.0	170 Ø	♦J	30	30 Ø	90	45	75	4.0m	2.0	5.0	50	100	2.0kΔ	2.0			T85	TØ
2	2N2156	2.0	170 Ø	♦J	30	30 Ø	45	25	30	4.0m	2.0	5.0	80	160	2.0kΔ	20m			T85	TØ
3	2N2156A	2.0	170 Ø	♦J	30	30 Ø	45	25	30	4.0m	2.0	5.0	80	160	2.0kΔ	2.0			T85	TØ
4	2N2157	2.0	170 Ø	♦J	30	30 Ø	60	30	45	4.0m	2.0	5.0	80	160	2.0kΔ	20m			T85	TØ
5	2N2157A	2.0	170 Ø	♦J	30	30 Ø	60	30	45	4.0m	2.0	5.0	80	160	2.0kΔ	2.0			T85	TØ
6	2N2158	2.0	170 Ø	♦J	30	30 Ø	75	40	60	4.0m	2.0	5.0	80	160	2.0kΔ	20m			T85	TØ
7	2N2158A	2.0	170 Ø	♦J	30	30 Ø	75	40	60	4.0m	2.0	5.0	80	160	2.0kΔ	2.0			T85	TØ
8	2N2159	2.0	170 Ø	♦J	30	30 Ø	90	45	75	4.0m	2.0	5.0	80	160	2.0kΔ	20m			T85	TØ
9	2N2159A	2.0	170 Ø	♦J	30	30 Ø	90	45	75	4.0m	2.0	5.0	80	160	2.0kΔ	2.0			T85	TØ
10	2N2357†	2.0	170 Ø	♦C	50	5.0	60 †	1.5†	30	50m♦	1.5Ø	20	30	90		18m	15uØ☑		TO41	CØ
11	2N2358†	2.0	170 Ø	♦C	50	5.0	100 †	1.5†	60	50m♦	1.5Ø	20	30	90		18m	15uØ☑		TO41	CØ
12	2N2359†	2.0	170 Ø	♦C	50	5.0	120 †	1.5†	80	50m♦	1.5Ø	20	30	90		18m	15uØ☑		TO41	CØ
13	2N2490†	2.0	170 Ø	♦C	12	4.0	70 †	40†	50 ☑	200uØ♦	2.0Ø	5.0	20	40	5.0kΔ	58m	25uØ☑		TO36	CØ
14	2N2491†	2.0	170 Ø	♦C	12	4.0	60 †	30†	40 ☑	200uØ♦	2.0Ø	5.0	35	70	5.0kΔ	58m	25uØ☑		TO36	CØ
15	2N2492	2.0	170 Ø	♦C	12	4.0	80 †	60†	65 ☑	200uØ♦	2.0Ø	5.0	25	50	5.0kΔ	50m	25uØ☑		TO36	CØ
16	2N2493	2.0	170 Ø	♦C	12	4.0	100 †	80†	75 ☑	200uØ♦	2.0Ø	5.0	25	50	5.0kΔ	41m	25uØ☑		TO36	CØ
17	2N2691A†	2.0	170 Ø	♦C	20	5.0	120	5.0	80	5.0m	1.5Ø	20	50	100	600k§Δ	30m	700u		TO41	CØ
18	2N2728†	2.0	170 Ø	♦C	50	10	15	15	5.0	10m#	2.0Ø	20	40	130	3.0kΔ	2.0m	25u		TO36	CØ
19	2N2730†	2.0 §	80 Ø	♦C	65	10	80	30	60	5.0m♦	2.0Ø	25	30	120 #			18u☑		TO36	CØ
20	2N2731†	2.0 §	80 Ø	♦C	65	10	60	30	45	5.0m♦	2.0Ø	25	30	120 #			18u☑		TO36	CØ
21	2N2732†	2.0 §	80 Ø	♦C	65	10	40	20	30	5.0m♦	2.0Ø	25	30	120 #			18u☑		TO36	CØ
22	2N2793	2.0	170 Ø	♦C	60	10	75	40	60	4.0m#♦	2.0Ø	15	50	100	2.0kΔ	9.0m			TO36	CØ
23	2N3146	2.0	150 Ø	#C	15	3.0	150	60	65 Ø	10m	1.5Ø	5.0	30	90	200k§Δ	80m		A	TO3	Ø
24	2N3147	2.0	150 Ø	#C	15	3.0	180	80	75 Ø	10m	1.5Ø	5.0	30	90	200k§Δ	80m		A	TO3	Ø
25	2N3311	2.0	170 Ø	♦J	5.0	5.0	30	20	20	5.0m	2.0Ø	3.0	60	120	1.0kΔ			A	TO36	CØ
26	2N3312	2.0	170 Ø	♦J	5.0	5.0	45	25	30	5.0m	2.0Ø	3.0	60	120	1.0kΔ			A	TO36	CØ
27	2N3313	2.0	170 Ø	♦J	5.0	5.0	60	30	40	5.0m	2.0Ø	3.0	60	120	1.0kΔ			A	TO36	CØ
28	2N3314	2.0	170 Ø	♦J	5.0	5.0	30	20	20	5.0m	2.0Ø	3.0	100	200	1.0kΔ			A	TO36	CØ
29	2N3315	2.0	170 Ø	♦J	5.0	5.0	45	25	30	5.0m	2.0Ø	3.0	100	200	1.0kΔ			A	TO36	CØ
30	2N3316	2.0	170 Ø	♦J	5.0	5.0	60	30	40	5.0m	2.0Ø	3.0	100	200	1.0kΔ			A	TO36	CØ
31	2N4048†	2.0	170 Ø	♦J	60	10	45 †	25†	30	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO36	CØ
32	2N4049†	2.0	170 Ø	♦J	60	10	60 †	30†	45	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO36	CØ
33	2N4050†	2.0	170 Ø	♦J	60	10	75 †	40†	60	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO36	CØ
34	2N4051†	2.0	170 Ø	♦J	60	10	45 †	25†	30	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO36	CØ
35	2N4052†	2.0	170 Ø	♦J	60	10	60 †	30†	45	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO36	CØ
36	2N4053†	2.0	170 Ø	♦J	60	10	75 †	40†	60	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO36	CØ
37	2N4276†	2.0	170 Ø	♦J	60	10	30 †	20†	20	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO3	CØ
38	2N4277†	2.0	170 Ø	♦J	60	10	30 †	20†	20	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO3	CØ
39	2N4278†	2.0	170 Ø	♦J	60	10	45 †	25†	30	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO3	CØ
40	2N4279†	2.0	170 Ø	♦J	60	10	45 †	25†	30	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO3	CØ
41	2N4280†	2.0	170 Ø	♦J	60	10	60 †	30†	45	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO3	CØ
42	2N4281†	2.0	170 Ø	♦J	60	10	60 †	30†	45	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO3	CØ
43	2N4282†	2.0	170 Ø	♦J	60	10	75 †	40†	60	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO3	CØ
44	2N4283†	2.0	170 Ø	♦J	60	10	75 †	40†	60	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO3	CØ
45#	2SB407	2.0	30 Ø	#J	7.0		30	10	30 §	500u	1.5Ø	1.0	80 Ø		350k§			A	TO3	
46	HEPG6002-RT	2.0	170 Ø	♦J	65		40	20	30	4.0m	2.0	5.0	50	100	2.7k	20m			TO36	
47	MP500	2.0	170 Ø	♦J	60		45	25	30	200uØ	2.0	15	30	75	2.0kΔ	9.0m		A	T85	TØ
48	MP500A	2.0	170 Ø	♦J	60		45	25	30	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
49	MP501	2.0	170 Ø	♦J	60		60	30	45	200uØ	2.0	15	30	75	2.0kΔ	9.0m		A	T85	TØ
50	MP501A	2.0	170 Ø	♦J	60		60	30	45	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
51	MP502	2.0	170 Ø	♦J	60		75	40	60	200uØ	2.0	15	30	75	2.0kΔ	9.0m		A	T85	TØ
52	MP502A	2.0	170 Ø	♦J	60		75	40	60	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
53	MP503	2.0	170 Ø	♦J	60		90	45	75	4.0m	2.0	15	30	75	2.0kΔ	9.0m		A	T85	TØ
54	MP504	2.0	170 Ø	♦J	60		45	25	30	200uØ	2.0	15	50	125	2.0kΔ	9.0m		A	T85	TØ
55	MP504A	2.0	170 Ø	♦J	60		45	25	30	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
56	MP505	2.0	170 Ø	♦J	60		60	30	45	200uØ	2.0	15	50	125	2.0kΔ	9.0m		A	T85	TØ
57	MP505A	2.0	170 Ø	♦J	60		60	30	45	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
58	MP506	2.0	170 Ø	♦J	60		75	40	60	200uØ	2.0	15	50	125	2.0kΔ	9.0m		A	T85	TØ
59	MP506A	2.0	170 Ø	♦J	60		75	40	60	200uØ	2.0Ø	50	12	20 Ø	2.0kΔ	9.0m		A	TO36	CØ
60	MP507	2.0	170 Ø	♦J	60		90	45	75	4.0m	2.0	15	50	125	2.0kΔ	9.0m		A	T85	TØ
61	MP4276†	2.0	170 Ø	♦J	60	10	30 †	20†	20	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO41	CØ
62	MP4277†	2.0	170 Ø	♦J	60	10	30 †	20†	20	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO41	CØ
63	MP4278†	2.0	170 Ø	♦J	60	10	45 †	25†	30	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO41	CØ
64	MP4279†	2.0	170 Ø	♦J	60	10	45 †	25†	30	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO41	CØ
65	MP4280†	2.0	170 Ø	♦J	60	10	60 †	30†	45	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO41	CØ
66	MP4281†	2.0	170 Ø	♦J	60	10	60 †	30†	45	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO41	CØ
67	MP4282†	2.0	170 Ø	♦J	60	10	75 †	40†	60	4.0m♦	2.0Ø	15	60	180 #	2.0kΔ		20uØ☑		TO41	CØ
68	MP4283†	2.0	170 Ø	♦J	60	10	75 †	40†	60	4.0m♦	2.0Ø	15	80	240 #	2.0kΔ		20uØ☑		TO41	CØ
69#	PT6	2.0	6.0 Ø☑	#J	2.0 #		32	10	20	200u	1.0Ø	50m	74	300	1.5M§			A	F4n	AØ
70	SDG604	2.0	90 Ø	♦J	25	2.5	30	1.5	20		2.0Ø	20	30	90		18m▼			TO3	CØ
71	SDG605	2.0	90 Ø	♦J	25	2.5	45	1.5	30		2.0Ø	20	30	90		18m▼			TO3	CØ
72	SDG606	2.0	90 Ø	♦J	25	2.5	60	1.5	45		2.0Ø	20	30	90		18m▼			TO3	CØ
73	SDG607	2.0	90 Ø	♦J	25	2.5	75	1.5	60		2.0Ø	20	30	90		18m▼			TO3	CØ
74	SDT1808	2.0	170 Ø	♦J	60	10	80	30	60	5.0m	2.0Ø	50	15		340k§	10m	10u	A	TO36	CØ
75	SDT1809	2.0	170 Ø	♦J	60	10	60	30	45	5.0m	2.0Ø	50	15		340k§	10m	10u	A	TO36	CØ
76	SDT1810	2.0	170 Ø	♦J	60	10	40	20	30	5.0m	2.0Ø	50	15		340k§	10m	10u	A	TO36	CØ
77♦	SDT1860	2.0	170		65	10	80	30	60	5.0m	2.0Ø	65	20		340k§	46m	10u		TO68	
78♦	SDT1861	2.0	170		65	10	60	30	45	5.0m	2.0Ø	65	20		340k	46m	10u		TO68	
79♦	SDT1862	2.0	170		65	10	40	20	30	5.0m	2.0Ø	65	20		340k	46m	10u		TO68	
80	2N4078	2.2 #	7.5 Ø	#J	1.0		32	10	20	20uØ	0.0	500m	75	300	1.0M§Δ	400m			F4	AØ
81	2N574	2.5	187 Ø	#J	10	2.0	60	28	55	7.0m	2.0Ø	10	9.0	22				Δ	T7	FØ
82	JAN2N574	2.5	187 Ø	#J	10		60	28	55	7.0m	2.0Ø	10	9.0	22		20m			T7	
83	2N574A	2.5	187 Ø	#J	10	2.0	80	28	60	20m	2.0Ø	10	9.0	22				Δ	T7	FØ
84	2N575	2.5	187 Ø	#J	25	3.7	60	28	50	7.0m	2.0Ø	10	19	42				Δ	T7	FØ
85	JAN2N575	2.5	187 Ø	#J	25		60	28	50	7.0m	2.0Ø	100m	19	42		20m			T7	
86	2N575A	2.5	187 Ø	#J	25	3.7	80	28	55	20m	2.0Ø	10	19	42				Δ	T7	FØ
87	JAN2N575A	2.5	187 Ø	#J	25		80	28	55	20m	2.0Ø	10	19	42		20m			T7	
88	2N1157	2.5	187 Ø	#J	40	6.0	60	28	60	7.0m	2.0Ø	10	38	84	75k§Δ			Δ	T7	FØ
89	2N1157A	2.5	187 Ø	#J	40	6.0	80	28	80	20m	2.0Ø	10	38	84	75k§Δ			Δ	T7	FØ
90	JAN2N1157A	2.5	187 Ø	#J	40		80	28	50	20m	2.0Ø	10	38	84		20m			T7	
91#	AD139	2.5	13	#J	3.0	200m	32	10	32	25uØ	0.0	1.0 Δ	33	110	10k			A	F7	
92♦	DA3F3	2.5	187 Ø	#J	10	2.5	60		35		2.0Ø	10	25				12u		T7	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAX TEMP (°C)	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #L C Y200 s/a TO200 Ser.	E O A D D E
1#	2SA473		10 Ø	$J	3.0		30	5.0	25	10uØ	1.0Ø	500m	40	400	200M§			D	B17	A
2#	2SA483		20 Ø	$J	1.0	1.0 Ø	150	5.0	150	100uØ	10Ø	100m	30	250	9.0M§			DM	TO66	C
3#	2SA489		30 Ø	$J	4.0		70	5.0	60	30uØ	5.0Ø	500m	40	240	5.0M§			ED	B17	A
4#	2SA565		350 Ø		500m		50	4.0	50	500u	3.0Ø	10	40	200					TO1	
5#	2SA597		6.0	§J	1.0		50	4.0	40	1.0u	3.0Ø	150m	10	250	400k§			PE	TO39	A
6#	2SA656A		50 Ø	$J	7.0	2.0	130	5.0	110	100uØ	5 0Ø	1.0	30	300	5.0M§		500nØ	DM	TO3	CØ
7#	2SA657A		50 Ø	$J	7.0	2.0	100	5.0	80	100uØ	5.0Ø	1.0	30	300	5.0M§		500nØ	DM	TO3	CØ
8#	2SA658A		50 Ø	$J	7.0	2.0	70	5.0	50	100uØ	5.0Ø	1.0	30	300	5.0M§		500nØ	DM	TO3	CØ
9#	2SA663		60 Ø	$J	7.0		100	5.0	80	1.0mØ	5.0Ø	1.0	30	200	6.0M§			EM	TO3	C
10#	2SA714		60 Ø	$S	12 #		150	6.0	100	1.0mØ	5.0	1.0		320	8.0 §			E	TO3	CØ
11#	2SA714L		60 Ø	$S	12 #		100	6.0	80	1.0mØ	5.0	1.0		320	8.0 §			E	TO3	CØ
12#	2SA740		25 Ø	$J	1.5		150	5.0	150	20uØ	10Ø	500m	40	140	8.0M§			DM	Y220b	DØ
13#	2SA814		15 Ø	$J	1.0		120	5.0	120	1.0uØ	5.0Ø	150m	70	240	30M§			EM	Y220b	DØ
14#	2SA815		15 Ø	$J	1.0		100	5.0	100	1.0uØ	5.0Ø	150m	70	240	30M§			EM	Y220b	DØ
15#	2SA818		1.0	$J	50m		180	5.0	150	1.0uØ	5.0Ø	10m	70	240	120M§			D	B15	AØ
16#	2SB502A		25 Ø	$J	3.0		110	10	80	10uØ	5.0Ø	500m	30	280	1.0M§		1.5uØ	DM	TO66	CØ
17#	2SB503A		25 Ø	$J	3.0		80	10	50	10uØ	5.0Ø	500m	30	280	1.0M§		1.5uØ	DM	TO66	CØ
18#	2SB507		30 Ø	$J	3.0		60	5.0	60	100uØ	2.0Ø	1.0	40	320	8.0M§			E	B17	
19#	2SB508		30 Ø	$J	3.0		60	5.0	60	100uØ	2.0Ø	1.0	40	320	8.0M§			E	B17	
20#	2SB509		35 Ø	$J	4.0		60	5.0	60	100uØ	2.0Ø	1.0	40	320	8.0M§			E	TO66	
21#	2SB510		800m	$	1.5 #		80	7.0	60	1.0uØ	2.0Ø	200m	60	320 #	50M§	1.0		PE	TO39	AØ
22#	2SB511		10 Ø	$J	1.5		35	5.0	35	100uØ	2.0Ø	1.0	40	320	8.0M§			E	B17	
23#	2SB514		20 Ø	$J	2.0		50	5.0	50	100uØ	2.0Ø	1.0	40	320	8.0M§			E	B17	
24#	2SB515		20 Ø	$J	2.0		50	5.0	50	100uØ	2.0Ø	1.0	40	320	8.0M§			E	B17	
25#	2SB518		60 Ø	♦J	7.0		90	8 0	90 §	100uØ	2.0Ø	3.0	50 Ø		3.0M§△				TO3	CØ
26#	2SB519		100 Ø	♦J	10		110	8.0	110 §	100uØ	2.0Ø	4.0	50 Ø		3.0M§△				TO3	CØ
27#	2SB520		120 Ø	♦J	12		140	8.0	140 §	100uØ	2.0Ø	5.0	50 Ø		3.0M§△				TO3	CØ
28#	2SB521		43 Ø	♦J	5.0	1.0	60 $	8.0$	60 ☑	2.0uØ	2.0Ø	100m	45	250 *	7.0M§	.50 #		E	Y220	D
29#	2SB522		43 Ø	♦J	5.0	1.0	60 $	8.0$	60 ☑	2.0uØ	2.0Ø	100m	45	250 *	7.0M§	.50 #		E	Y220	T
30#	2SB552		150 Ø	$J	15		220	5.0	180	500uØ	5.0Ø	5.0	25	80	4.0M§		1.0uØ	DM	TO3	CØ
31#	2SB554		150 Ø	$J	15		160	5.0	160	100uØ	5.0Ø	2.0	40	140	6.0M§			DM	TO3	CØ
32#	2SB555		100 Ø	$J	12		140	5.0	140	100uØ	5.0Ø	2.0	40	140	6.0M§			DM	TO3	CØ
33#	2SB556		100 Ø	$J	12		120	5.0	120	100uØ	5.0Ø	2.0	40	140	6.0M§			DM	TO3	CØ
34#	2SB557		80 Ø	$J	8.0		120	5.0	120	100uØ	5.0Ø	1.0	40	140	7.0M§			DM	TO3	CØ
35#	2SB558		60 Ø	$J	7.0		100	5.0	100	100uØ	5.0Ø	1.0	40	140	7.0M§			DM	TO3	CØ
36#	2SB595		40 Ø	$J	5.0	4.0	100	5.0	100	100u	5.0Ø	1.0	40	240	4.0M§			DM	Y220b	DØ
37#	2SB596		30 Ø	$J	4.0	3.0	80	5.0	80	30u	5.0Ø	500m	40	240	3.0M△§			DM	Y220b	DØ
38#	BD534		50 Ø	$J	4.0	1.0	45	5.0	45		2.0	2.0	25		3.0M§△			E	Y220a	
39#	BD536		50 Ø	$J	4.0	1.0	60	5.0	60		2.0	2.0	25		3.0M§△			E	Y220a	
40#	BD538		50 Ø	$J	4.0	1.0	80	5.0	80		2.0	2.0	15		3.0M§△			E	Y220a	
41#	BFR23†		7.0 Ø	§J							10Ø	500m	20		60M§△				TO39	AØ
42#	BSV82		10	J							1.0Ø	500m	15		120M§		50nØ		TO39	
43	HA7730		1.0	♦			40	20		5.0u	10	5.0m△	22 Ø	†	1.0Mt			A	R192	
44	HA7731		1.0	♦			80	40		2.0u	10	5.0m△	22 Ø	†	1.0Mt			A	R192	
45	HA7732		1.0	♦			40	20		5.0u	10	5.0m△	60 Ø	†	1.0Mt			A	R192	
46	HA7733		1.0	♦			80	40		2.0u	10	5.0m△	60 Ø	†	1.0Mt			A	R192	
47	HEP76-RT		1.0 ▼%	§J	400m$		40 $	3.5$	20 $	1.0u$	25		15		250M§				TO39	
48	HEP242-RT		6.0 %	§J	3.0 $		60 $	7.0$	40 $	500u$	40		60 Ø		8.0M§				TO5	A
49	HEP246-RT		30 %	§J	3.0 $		60 $	5.0$	40 $	500u$	40		60 Ø		8.0M§				B16b	B
50	HEP248-RT		150 %	§J	10 $		70 $	7.0$	50 $	2.0m$	40		60 Ø		6.0M§				TO3	CØ
51	HEP700-RT		40 %	§J	5.0 $		40 $	5.0$	40 $	100u$	25		70 Ø		8.0M§				B16b	B
52	HEP702-RT		25 %	§J	3.0 $		80 $	5.0$	80 $	100u$	60		80 Ø		8.0M§				TO66	CØ
53	HEP705-RT		87 %	§J	5.0 $		40 $	5.0$	40 $	1.0m$	40		250 Ø		4 0M§				TO3	CØ
54	HEP708-RT		1.8 %	§J	600m$		60 $	5.0$	60 $	3.0n$	30		85 Ø		275M§				TO18	A
55	HEP710-RT		3.0 %	§J	100m$		95 $	4.5$	80 $	5.0n$	15		25 Ø		200M§				TO5	A
56	HEPS3003-RT		6.0 %	§J	5.0 $		80 $	5.0$	80 $	100u$			80 Ø		30M§				B18	A
57	HEPS3027-RT		8.0 %	†J	1.5 $		35 $	4.0$	35 $	100nØ$			110 Ø		50M§				B18	A
58	HEPS3028-RT		8.0 %	†J	1.5 $		35 $	4.0$	35 $	100nØ$			200 Ø		50M§				B18	A
59	HEPS3029-RT		8.0 %	†J	1.5 $		35 $	4.0$	35 $	100nØ$			320 Ø		50M§				B18	A
60	HEPS3030-RT		8.0 %	†J	1.5 $		35 $	4 0$	35 $	100nØ$			550 Ø		50M§				B18	A
61	HEPS3031-RT		5.0 %	†J	1.0 $		80 $	4.0$	80 $	100nØ$			140 Ø		125M§				B18	A
62	HEPS5002-RT		90 %	$J	10 $		70 $	5.0$	60 $	1.0m$			50 Ø		2.0M§				B5b	B6
63	HEPS5005-RT		90 %	§J	10 $		90 $	4.0$	90 $	100u$			70 Ø		2.0M§				B5b	B6
64	HEPS5006-RT		40 %	§J	4.0 $		80 $	5.0$	80 $	100u$			60 Ø		2.0M§				B5a	B
65	HEPS5007-RT		40 %	§J	4.0 $		60 $	5.0$	60 $	100u$			60 Ø		2.0M§				B5a	B
66	HEPS5008-RT		65 %	§J	5.0 $		40 $	4.0$	40 $	100u$			70 Ø		2.0M§				B5b	B6
67	HEPS5009-RT		65 %	§J	5.0 $		40 $	4.0$	40 $	100u$			120 Ø		2.0M§				B5b	B6
68	HEPS5010-RT		65 %	§J	5.0 $		40 $	4.0$	40 $	100u$			200 Ø		2.0M§				B5b	B6
69	HEPS7001-RT		200 %	§J	30 $		100 $	4.0$	100 $	1.0m$			75 Ø		2.0M§				TO3	CØ
70	PTC106-RT		150 Ø		15		55	40	20	8.0mØ	2.0Ø	5.0	40	90 Ø	10k§△				TO36	AØ
71	PTC111-RT		12 Ø		3.0		70	7.0	70	10u	1.0	200m	40	120	50M§△				B17a	DØ
72	PTC113-RT		25 Ø		4.0		90	4.0	80	1.0m	4 0Ø	50m	30	80 Ø	6.0M§				TO66	
73	PTC141-RT		7.0 Ø		1.0		105	8.0	100	15u	10Ø	100m	100 Ø		90M§				TO5	AØ
74	PTC142-RT		6.0 Ø		3.0		65	8.0	45	500uØ	10Ø	500m	60		8.0M§				TO5	AØ
75	PTC149-RT		150 Ø		15		100	7.0	70	2.0mØ	50	1.0	60 Ø		6.0M#				TO3	CØ
76	PTC157-RT		40 Ø		4.0		60	5.0	60	100nØ	10Ø	250m	60 Ø		8.0M§				B17a	DØ
77	PTC160-RT		40 Ø		4.0		60	5.0	60	100u	10Ø	500m	70 Ø		8.0M§				B16	BØ
78	PTC174-RT†		250 Ø		30		100	6.0	100	1.0mØ	2.0Ø	4.0	20	120	2.0M§		700n		TO3	CØ
79	PTC177-RT		1.0 Ø	♦J	1.0		70	5.0	60	100nØ	10Ø	150m	160 Ø		120M§				R198	B
80	SK3025-RT		7.0 Ø	§J	1.0		90	7.0	90		10	150m	100 Ø	#	100M§			PE	TO5	A
81	SK3053-RT		10	§J	1.0		200	4.0	200		10	50m	90 Ø		15M§			D	TO5	A
82	SK3083-RT		40	$J	7.0		80	5.0	70				90 Ø		10M§			E	Y220b	DØ
83	SK3084-RT		40	§J	7.0		40	5.0	30				100 Ø		10M§			E	Y220b	DØ
84	SK3085-RT		40	§J	6.0		50	5.0	40				60 Ø		5.0M§			E	TO66	CØ
85	SK3513-RT		10		2.0		100	7.0	75			400m	70 Ø		70M§				TO5	A
86	SSP60		30		1.0				40			1.0	15	75		700m				
87	SSP60A		30		1.0				60			1.0	15	75		700m				
88	SSP60B		30		1.0				80			1.0	15	75		700m				
89	SSP60C		30		1.0				100			1.0	15	75		700m				
90	SSP64		40		3.0				40			3.0	10	50		400m				
91	SSP64A		40		3.0				60			3.0	10	50		400m				
92	SSP64B		40		3.0				80			3.0	10	50		400m				
93	SSP64C		40		3.0				100			3.0	10	50		400m				
94	SSP68		80		10				40			3.0	20	100		400m				
95	SSP68A		80		10				60			3.0	20	100		400m				
96	SSP68B		80		10				80			3.0	20	100		400m				
97	SSP68C		80		10				100			3.0	20	100		400m				
98	SSP72		125		25				40			15	10	50		160m				
99	SSP72A		125		25				60			15	10	50		160m				
100	SSP72B		125		25				80			15	10	50		160m				
101	SSP72C		125		25				100			15	10	50		160m				
102	SSP84		65		6.0				40			3.0	15	75		333m				
103	SSP84A		65		6.0				60			3.0	15	75		333m				
104	SSP84B		65		6.0				80			3.0	15	75		333m				
105	SSP84C		65		6.0				100			3.0	15	75		333m				
106	TRSP3254S		1.0		.40	.40	350	5.0	325	.02m	10	20	30		30M				TO5	
107	TRSP3255S		2.0		.40	.40	350	5.0	325	.02m	10	20	30		30M				F8	
108	TRSP3504S		1.0		.40	.40	375	5.0	350	.02m	10	20	30		30M				TO5	
109	TRSP3505S		2.0		.40	.40	375	5.0	350	.02m	10	20	30		30M				F8	
110	TRSP3754S		1.0		.40	.40	400	5.0	375	.02m	10	20	30		30M				TO5	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	BIAS Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1	HA7528	7.1mØ	1.0	§J			60	60		100n	5.0Ø	1.0mØ	42 †	†	1.0M†			F		
2	HA7529	7.1mØ	1.0	§J			90			100n			14 †					A	R192	
3	HA7723	7.1mØ	1.0	§J	50m		50	10		1.0u	6.0Ø	1.0mΔ	25 Ø		100k†			A	R192	
4	HA7725	7.1mØ	1.0	§J	50m		100	60		1.0u	6.0Ø	1.0mΔ	14 Ø		100k†			A	R192	
5	HA7734	7.1mØ	1.0	§J	50m		50	20		1.0u	6.0Ø	1.0mΔ	14 Ø	†	200k†			A	R192	
6	HA7735	7.1mØ	1.0	§J	50m		50	20		1.0u	6.0Ø	1.0mΔ	25 Ø	†	300k†			A	R192	
7	HA7736	7.1mØ	1.0	§J	50m		50	20		1.0u	6.0Ø	1.0mΔ	50 Ø	†	400k†			A	R192	
8	HA7737	7.1mØ	1.0	§J	50m		50	20		1.0u	6.0Ø	1.0mΔ	18 Ø	†	300k†			A	R192	
9	2N1238	7.4m	1.0	§J			15	15	15	100nØ	5.0	1.0mΔ	14	32	1.2M†			F	R192	
10	2N1239	7.4m	1.0	§J			15	15	15	100nØ	5.0	1.0mΔ	28	65	1.2M†			F	R192	
11	2N1240	7.4m	1.0	§J			35	35	35	100nØ	5.0	1.0mΔ	14	32	1.2M†			F	R192	
12	2N1241	7.4m	1.0	§J			35	35	35	100nØ	5.0	1.0mΔ	28	65	1.2M†			F	R192	
13	2N1242	7.4m	1.0	§J			60	60	60	100nØ	5.0	1.0mΔ	14	32	1.0M†			F	R192	
14	2N1243	7.4m	1.0	§J			60	60	60	100nØ	5.0	1.0mΔ	28	65	1.0M†			F	R192	
15	2N1244	7.4m	1.0	§J			110	110	110	100nØ	5.0	1.0mΔ	14	32	800k†			F	R192	
16#	2SA607	8.0mØ	1.0	§J	700m		100	5.0	80	3.0uØ	5.0Ø	200m	40	200 #	50M§Δ	4.0		PE	TO37	AØ
17#	2SA607S	8.0mØ	1.0	§J	700m		100	5.0	80	3.0uØ	5.0Ø	200m	40	200 #		4.0 #		E	TO37	AØ
18#	2SA898	8.0mØ	1.0	§J	50m		150	5.0	120	1.0uØ	5.0Ø	10m	150 Ø		100M§	50		PEΔ	B5c	B
19#	2SA899	8.0mØ	1.0	§J	50m		150	5.0	150	1.0uØ	5.0Ø	10m	150 Ø		100M§	50		PEΔ	B5c	B
20▼#	2SA914	8.0m	1.0	§J	100m#		150	5.0	150	1.0uØ	5.0Ø	10m	65	450	200M§	20			TO126	B
21#	BCX51	8.0mØ	1.0	§J	1.0	100m	45	5.0	45	100nØ	2.0Ø	150m	40	250	50M§	1.0		†	X166	B
22#	BCX52	8.0mØ	1.0	§J	1.0	100m	60	5.0	60	100nØ	2.0Ø	150m	40	160	50M§	1.0		†	X166	B
23#	BCX53	8.0mØ	1.0	§J	1.0	100m	100	5.0	80	100nØ	2.0Ø	150m	40	160	50M§	1.0		†	X166	B
24♦#	2SA684	9.0m	1.0	†J	1.5 #		60	5.0	50	100n	10Ø	500m	60 †	340 †	200M§			PE	R182a	B
25♦#	2SA751	9.0m	1.0	†J	1.5 #		30	5.0	25	100n	10Ø	500m	60 †	340 †	200M§			PE	R209	D
26♦#	2SA752	9.0m	1.0	†J	1.5 #		60	5.0	50	100n	10Ø	500m	60 †	340 †	200M§			PE	R209	D
27♦#	2SA900	9.6m	1.2 Ø	§J	2.0 #		20	5.0	18	1.0uØ	2.0Ø	500m	90	470	200M§			PE	TO126	B
28	PE8550	9.8mØ	1.2	§J	1.5		30	6.0	25	100n	1.0Ø	1.0	40	200		750m		DPL	TO92	A
29	PE8551	9.8mØ	1.2	§J	1.5		45	6.0	35	100n	1.0Ø	1.0	30	180		1.0		DPL	TO92	A
30♦#	2SA779K†	10m	10 Ø	§J	1.5		35	5.0	35	20uØ	2.0Ø	500m	60	320 *	110M§	500m	130nØ	PE†	B11	D
31♦#	2SA780AK†	10m	10 Ø	§J	1.0		80	4.0	80	20u*	4.0Ø	50m	40	320 *	120M§	1.5	110nØ	E†	B11	D
32	ST72039†	10m#	15 Ø#	§J	5.0		80	8.0	80 *	20uØ	10Ø	2.0	30	120 #	20M§Δ		500nØ	PL	TO5	
33	ST72040†	10m#	15 Ø#	§J	5.0		100	8.0	100 *	20uØ	10Ø	2.0	30	120 #	20M§Δ		500nØ	PL	TO5	
34	ST72041†	10m#	15 Ø#	§J	5.0		120	8.0	120 *	20uØ	10Ø	2.0	30	120 #	20M§Δ		500nØ	PL	TO5	
35	2N3485†	11m	2.0 Ø	§S	600m		60	5.0	40	20n	10Ø	150m	40	120 #	200M§	3.2	40n	EA	TO46	AØ
36	2N3486†	11m	2.0 Ø	§S	600m		60	5.0	40	20n	10Ø	150m	100	300 #	200M§	3.2	40n	EA	TO46	AØ
37	2N5229Ø	12m	2.0 Ø	§S	50m		15	15		1.0nØ	1.0Ø	100u	50		8.0M§Δ				TO46	AØ
38	2N5230Ø	12m	2.0 Ø	§S	50m		30	30		1.0nØ	1.0Ø	100u	50		8.0M§Δ				TO46	AØ
39	2N5231Ø	12m	2.0 Ø	§S	50m		50	50		1.0nØ	1.0Ø	100u	50		8.0M§Δ				TO46	AØ
40	TRSP2255	13mØ	2.0	§A	400m	50m	225	5.0	225 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
41	TRSP2255S	13mØ	2.0	§A	400m	50m	250	5.0	225	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
42	TRSP2505	13mØ	2.0	§A	400m	50m	250	5.0	250 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
43	TRSP2505S	13mØ	2.0	§A	400m	50m	275	5.0	250	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
44	TRSP2755	13mØ	2.0	§A	400m	50m	275	5.0	275 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
45	TRSP2755S	13mØ	2.0	§A	400m	50m	300	5.0	275	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
46	TRSP3015	13mØ	2.0	§A	400m	50m	300	5.0	300 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
47	TRSP3015S	13mØ	2.0	§A	400m	50m	325	5.0	300	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
48	TRSP3505	13mØ	2.0	§A	400m	50m	350	5.0	350 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
49	TRSP3515S	13mØ	2.0	§A	400m	50m	375	5.0	350	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
50	TRSP4015	13mØ	2.0	§A	400m	50m	400	5.0	400 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
51	TRSP4015S	13mØ	2.0	§A	400m	50m	425	5.0	400	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
52	TRSP4255S	13mØ	2.0	§A	400m	50m	450	5.0	425	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
53	TRSP4505	13mØ	2.0	§S	400m	50m	450	5.0	450 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
54	TRSP4505S	13mØ	2.0	§A	400m	50m	475	5.0	450	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
55	TRSP4755S	13mØ	2.0	§A	400m	50m	500	5.0	475	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
56	TRSP5015	13mØ	2.0	§S	400m	50m	500	5.0	500 §	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
57	TRSP5015S	13mØ	2.0	§S	400m	50m	525	5.0	500	3.0uØ	10Ø	25m	25 #	50 Ø	20M§Δ	200	200n	DMΔ	F8	
58♦	JAN2N3762†	16m	1.0	§J	1.5		40	5.0	40 *	100nØ	1.0Ø	500m	40	140 #	180M§Δ	1.0 #	35nØ		TO5	AØ
59♦	JAN2N3763†	16m	1.0	§J	1.5		60	5.0	60 *	100nØ	1.0Ø	500m	40	140 #	150M§Δ	1.0 #	35nØ		TO5	AØ
60	2N6554	16m	2.0	§S	1.0	100m	60	5.0	60	100nØ	1.0Ø	50m	80	300	75M§Δ	2.0 #			Y202c	P
61	2N6555	16m	2.0	§S	1.0	100m	80	5.0	80	100nØ	1.0Ø	50m	80	300	75M§Δ	2.0 #			Y202c	P
62	2N6556	16m	2.0	§S	1.0	100m	100	5.0	100	100nØ	1.0Ø	50m	80	300	75M§Δ	2.0 #			Y202c	P
63	92PE77A	20m	1.2	§J	2.0	500m	60	5.0	45	100n	2.0Ø	250m	40		50MΔ			PL†	B32	B
64	92PE77B	20m	1.2	§J	2.0	500m	80	5.0	60	100n	2.0Ø	250m	40		50MΔ			PL†	B32	B
65	92PE77C	20m	1.2	§J	2.0	500m	100	5.0	80	100n	2.0Ø	250m	40		50MΔ			PL†	B32	B
66	92PU51	20m	1.2	§J	2.0		40	5.0	30	100n	1.0Ø	1.0	50		50M§Δ	500m		DPL†	B32	A
67	92PU51A	20m	1.2	§J	2.0		50	5.0	40	100n	1.0Ø	1.0	50		50M§Δ	500m		DPL†	B32	A
68	92PU55	20m	1.2	§J	2.0	500m	60	4.0	60	100nØ	1.0Ø	50m	80		50MΔ			PL†	B32	A
69	92PU56	20m	1.2	§J	2.0	500m	80	4.0	80	100nØ	1.0Ø	50m	80		50MΔ			PL†	B32	A
70	92PU57	20m	1.2	§J	2.0	500m	100	4.0	100	100nØ	1.0Ø	50m	80		50MΔ			PL†	B32	A
71	40391	20mØ	3.5	§J	1.0	500m	60	7.0	40	250n	10Ø	1.0m	15		60M§Δ	9.3		DPEΔ	F31	
72	40410	20mØ	3.0 #	§J	700m	200m		4.0	90 §	1.0u*	4.0Ø	150m	50	250	100M§	9 3		D	F31	
73	BD370A	20m	1.2	§J	2.0	500m	45	5.0	45	100n	1.0Ø	100m	40	400	50MΔ			PL†	B32	A
74	BD370B	20m	1.2	§J	2.0	500m	60	5.0	60	100n	1.0Ø	100m	40	400	50MΔ			PL†	B32	A
75	BD370C	20m	1.2	§J	2.0	500m	80	5.0	80	100n	1.0Ø	100m	40	400	50MΔ			PL†	B32	A
76	BD370D	20m	1.2	§J	2.0	500m	100	5.0	100	100n	1.0Ø	100m	40	400	50MΔ			PL†	B32	A
77	BD372A	20m	1.2	§J	2.0	500m	45	5.0	45	100n	1.0Ø	100m	40	400	50MΔ			PL†	B32	B
78	BD372B	20m	1.2	§J	2.0	500m	60	5.0	60	100n	1.0Ø	100m	40	400	50MΔ			PL†	B32	B
79	BD372C	20m	1.2	§J	2.0	500m	80	5.0	80	100n	1.0Ø	100m	40	400	50MΔ			PL†	B32	B
80	BD372D	20m	1.2	§J	2.0	500m	100	5.0	100	100n	1.0Ø	100m	40	400	50MΔ			PL†	B32	B
81	2N3762†	22m	1.0	§S	1.5		40	5.0	40	100n#	1.5Ø	1.0	30	120	180M§Δ	10	40n		TO5	AØ
82	2N3762A†	22m	1.0	§S	1.5		50	5.0	5.0	100n#	1.5Ø	1.0	20	80	150M§Δ	1.4	35nØ		TO5	AØ
83	2N3762S†	22m	1.0	§S	1.5		40	5.0	40	100n#	1.5Ø	1.0	30	120	180M§Δ	10	40n		TO5	AØ
84	2N3763†	22m	1.0	§S	1.5		60	5.0	60	100n#	1.5Ø	1.0	20	80	150M§Δ	10	40n		TO5	AØ
85	NS3762	22m	1.0	§J	1.5		60	5.0	60	100n#	1.5Ø	1.0	30	120	1.8M§Δ		35n	PEΔ	TO39	AØ
86	NS3763	22m	1.0	§J	1.5		60	5.0	60	100n#	1.5Ø	1.0	20	80	1.5M§Δ		35n	PEΔ	TO39	AØ
87	2N5022†	25m	1.0 Ø	§S	500m		50	5.0	50	100n§	1.0Ø	500m	25	100	170M§Δ	800m	30n		TO39	AØ
88	2N3244†	28m	1.0	§J	1.0		40	5.0	40	50nØ	1.0Ø	500m	50	150 #	175M§Δ		35nØ		TO5	AØ
89	2N3245†	28m	1.0	§J	1.0		40	5.0	50	50nØ	1.0Ø	500m	30	90 #	150M§Δ		40nØ		TO5	AØ
90	2N3634†	28m	1.0	§S	1.0		140	5.0	140	100nØ	10Ø	50m	50	150	150M§Δ	40	400nØØ	Ø	TO5	AØ
91	JAN2N3634†	28m	1.0	§J	1.0		140	5.0	140	100u	10Ø	50m	50	150 #	150M§Δ	3.0 #	400nØØ	Ø	TO5	AØ
92	2N3634S†	28m	1.0	§S	1.0		140	5.0	140	100nØ	10Ø	50m	50	150	150M§Δ	40	400nØØ	Ø	TO5	AØ
93	2N3635†	28m	1.0	§S	1.0		140	5.0	140	100nØ	10Ø	50m	100	300	200M§Δ	40	400nØØ	Ø	TO5	AØ
94	2N3635S†	28m	1.0	§S	1.0		140	5.0	140	100nØ	10Ø	50m	100	300	200M§Δ	40	400nØØ	Ø	TO5	AØ
95	2N3636†	28m	1.0	§S	1.0		175	5.0	175	100nØ	10Ø	50m	50	150	150M§Δ	40	400nØØ	Ø	TO5	AØ
96	2N3637†	28m	1.0	§S	1.0		175	5.0	175	100nØ	10Ø	50m	100	300	200M§Δ	40	400nØØ	Ø	TO5	AØ
97	2N3637S†	28m	1.0	§S	1.0		175	5.0	175	100nØ	10Ø	50m	100	300	200M§Δ	40	400nØØ	Ø	TO5	AØ
98	2N3743	28m	1.0	§S	50m		300	5.0	300	300nØ	10Ø	30m	25	250	30M§Δ	500			TO39	AØ
99♦	JAN2N3743	28m	1.0	§J	50m		300	5.0	300	100u	10Ø	30m	50	200 #	40M§Δ				TO39	AØ
100	2N3743S	28m	1.0	§S	50m		300	5.0	300	300nØ	10Ø	30m	25	250	30M§Δ	500			TO39	AØ
101	2N4404†	28m	5.0 Ø	§S	500m		80	5.0	80	25nØ	5.0Ø	150m	40	120 #	200M§Δ		25n		TO39	AØ
102	2N4405†	28m	5.0 Ø	§S	500m		80	5.0	80	25nØ	5.0Ø	150m	100	300 #	200M§Δ		25n		TO39	AØ
103	2N4406†	28m	5.0 Ø	§S	1.5		80	5.0	80	25nØ	5.0Ø	500m	30	120 #	150M§Δ		60n		TO39	AØ
104	2N4407†	28m	5.0 Ø	§S	1.5		80	5.0	80	25nØ	5.0Ø	500m	80	240 #	150M§Δ		60n		TO39	AØ
105	2N4890†	28m	1.0	§S	500m		60	5.0	40	250n#	10Ø	150m	50	250	100M§Δ	9.3	50n		TO5	AØ
106	2N4929	28m	1.0	§S	50m		150	4.0	150	500nØ	10Ø	10m	25	200 #	100M§Δ	50 #			TO39	AØ
107	2N4930	28m	1.0	§S	50m		200	4.0	200	1.0uØ	10Ø	10m	20	200 #	20M§Δ	500 #			TO39	AØ
108	JAN2N4930	28m	1.0	§J	50m		200	5.0	200	100u	10Ø	30m	50	200 #	40M§Δ				TO39	AØ
109	2N4931	28m	1.0	§S	50m		250	4.0	250	1.0uØ	10Ø	10m	20	200 #	20M§Δ	500 #			TO39	AØ
110	JAN2N4931	28m	1.0	§J	50m		250	5.0	250	100u	10Ø	30m	50	200 #	40M§Δ				TO39	AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	TYPE No.	MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	2N3776†	50m$	5.0 Ø	§J	1.0	500m	80 †	8.0†	80	500u#♦	2.0Ø	200m	20	60 #	1.0M§Δ		3.0uØ☑		TO5 A
2	2N3777†	50m$	5.0 Ø	§J	1.0	500m	100 †	8.0†	100	500u#♦	2.0Ø	200m	20	60 #	1.0M§Δ		3.0uØ☑		TO5 A
3	2N3778†	50m$	5.0 Ø	§J	1.0	500m	40 †	8.0†	40	500u#♦	2.0Ø	200m	10	40 #	1.0M§Δ		3.0uØ☑		TO5 A
4	2N3779†	50m$	5.0 Ø	§J	1.0	500m	60 †	8.0†	60	500u#♦	2.0Ø	200m	10	40 #	1.0M§Δ		3.0uØ☑		TO5 A
5	2N3780†	50m$	5.0 Ø	§J	1.0	500m	80 †	8.0†	80	500u#♦	2.0Ø	200m	10	40 #	1.0M§Δ		3.0uØ☑		TO5 A
6	2N3781†	50m$	5.0 Ø	§J	1.0	500m	100 †	8.0†	100	500u#♦	2.0Ø	200m	10	40 #	1.0M§Δ		3.0uØ☑		TO5 A
7	2N3782†	50m$	5.0 Ø	§J	3.0	1.0	40 †	8.0†	40	500u#♦	3.0Ø	1.0	10	60 #	1.0M§Δ		3.0uØ☑		TO5 A
8	2N3795†	50m	5.0 Ø	§J	1.0	500m	120	10	120	1.0m#	2.0Ø	10m	12	36	500k§Δ	20	5.0u		TO5 Ø
9	2N5404†	50m$	1.0 Δ	§J	5.0	2.0	80 †	6.0†	80	10u#♦	5.0Ø	2.0	20	60	40M§Δ	1.0	500n☑		TO5 A
10	2N5405†	50m$	1.0 Δ	§J	5.0	2.0	100 †	6.0†	100	10u#♦	5.0Ø	2.0	20	60	40M§Δ	1.0	500n☑		TO5 A
11	2N5406†	50m$	1.0 Δ	§J	5.0	2.0	80 †	6.0†	80	10u#♦	5.0Ø	2.0	40	120	40M§Δ	800m	500n☑		TO5 A
12	2N5407†	50m$	1.0 Δ	§J	5.0	2.0	100 †	6.0†	100	10u#♦	5.0Ø	2.0	40	120	40M§Δ	800m	500n☑		TO5 A
13#	2SA496	50m	5.0 Ø	♦J	800m	800mØ	40	5.0	30	1.0uØ	2.0Ø	50m	40	240	100M§	1.6		PE	B7 B
14#	2SA505	50m	5.0 Ø	♦J	800m	800 Ø	70	5.0	50	110uØ	2.0Ø	50m	40	240	100M§	1.6		PE	B7 B
15♦#	BF470	50m	1.8 Ø$	§J	100m		250	5.0	250	10nØ	20Ø	25m	50		60M§	800 ▼		PE	TO126 BØ
16	D41D10	50m	1.3 #	§J	1.0			5.0	75	100n§	2.0Ø	100m	50	150	150M§		50nØ	†	B15b F
17	D41D11	50m	1.3 #	§J	1.0			5.0	75	100n§	2.0Ø	100m	120	360	150M§		50nØ	†	B15b F
18	D41D13	50m	1.3	§J	1.0			5.0	75	100n§	2.0Ø	100m	50	150	150M§	2.0	50nØ	†	B15b F
19	D41D14	50m	1.3	§J	1.0			5.0	75	100n§	2.0Ø	100m	120	360	150M§	2.0	50nØ	†	B15b F
20	NPC548	50m	5.0 Ø	$	800m		100	5.0	80	1.0u	5.0Ø	200m	40	320 #	80 §			E	TO126 BØ
21	NPC549	50m	5.0 Ø	$	800m		120	5.0	100	1.0u	5.0Ø	200m	40	320 #	80 §			E	TO126 BØ
22	NPC875	50m	5.0 Ø	§J	3.0 #		40	5.0	35	500nØ	2.0Ø	300m	40	250 #	50M§			PL	TO126 BØ
23	SDT3321	50m	1.0		5.0	2.0	40	6.0	40	.01m	5.0Ø	2.0	40	120	40M§Δ	.50	.50u	PEΔ	TO5
24	SDT3322	50m	1.0		5.0	2.0	60	6.0	60	.01m	5.0Ø	2.0	40	120	40M§Δ	.50	.50u	PEΔ	TO5
25	SDT3323	50m	1.0		5.0	2.0	80	6.0	80	.01m	5.0Ø	2.0	40	120	40M§Δ	.50	.50u	PEΔ	TO5
26	SDT3324	50m	1.0		5 0	2.0	100	6.0	100	.01m	5.0Ø	2.0	40	120	40M§Δ	.50	.50u	PEΔ	TO5
27	SDT3325	50m	1.0		5.0	2.0	40	6.0	40	.01m	5.0Ø	2.0	20	60	40M§Δ	.50	.50u	PEΔ	TO5
28	SDT3326	50m	1.0		5.0	2.0	60	6.0	60	.01m	5.0Ø	2.0	20	60	40M§Δ	.50	.50u	PEΔ	TO5
29	SDT3327	50m	1.0		5.0	2.0	80	6.0	80	.01m	5.0Ø	2.0	20	60	40M†	.60	.50u	PEΔ	TO5
30	SDT3328	50m	1.0		5.0	2.0	100	6.0	100	.01m	5.0Ø	2.0	20	60	40M†	.60	.50u	PEΔ	TO5
31	SDT3329	50m	1.0		5.0	2.0	120	6.0	120	.01m	5.0Ø	2.0	20	60	40M†	.60	.50u	PEΔ	TO5
32	MPSU52	54m	1.0	†J	800m		60	5.0	40	100n#	10Ø	150m	50	300	150M§	2.6		ANT	B18 A
33♦	JAN2N3867†	56m	1.0	§S	3.0		40	4.0	40	1.0u#	2.0Ø	1.5	40	200 #	60M§Δ	500m	100nØ☑		TO5 AØ
34♦	JAN2N3868†	56m	1.0	§S	3.0		60	4 0	60	1.0u#	2.0Ø	1.5	30	150 #	60M§Δ	500m	100nØ☑		TO5 AØ
35	2N5322†	56m	10 Ø	§J	2.0	1.0	100	7.0	75	100u#	4.0Ø	500m	30	130	50M§Δ	1.4	100nØ		TO5 AØ
36	2N5323†	56m	10 Ø	§J	2.0	1.0	75	5.0	50	100u#	4.0Ø	500m	40	250	50M§Δ	2.4	100nØ		TO5 AØ
37	2N5415	56m#	1.0 Ø	§S	1.0	500m	200	4.0	200 ☑	50uØ	10Ø	50m	30	150	15M§Δ				TO5 AØ
38	2N5416	56m#	1.0 Ø	§S	1.0	500m	350	6.0	300 ☑	50uØ	10Ø	50m	30	120	15M§Δ				TO5 AØ
39	40595	56m	1.2	§A	2.0	1.0		4.0		10u*	4.0Ø	300m	70	350		2.7		PE	TO5 AØ
40	STIP10	56m#	1.0 Ø	§S	1.0	500m	100	5.0	100 §	3.0u	10Ø	20m	30	200	30M			D	TO5
41	STIP20	56m#	1.0 Ø	§S	1.0	500m	200	5.0	200 §	4.0u	10Ø	20m	30	200	30M			D	TO5
42	STIP30	56m#	1.0 Ø	§S	1.0	500m	300	5.0	300 §	4.0u	10Ø	20m	25	200	30M			D	TO5
43	STIP40	56m#	1 0 Ø	§S	1.0	500m	400	5.0	400 #	4 0u	10Ø	20m	25	200	30M			D	TO5
44	TRSP15X	56m	10 Ø	§A	1.0	500m	175	12	150	100u	10Ø	30m	900	40k	25M§Δ				TO5
45	TRSP20X	56m	10 Ø	§A	1.0	500m	200	12	200	100u	10Ø	30m	900	40k	25M§Δ				TO5
46	TRSP25X	56m	10 Ø	§A	1.0	500m	250	12	250	100u	10Ø	30m	900	40k	25M§Δ				TO5
47	TRSP30X	56m	10 Ø	§A	1.0	500m	300	12	300	100u	10Ø	30m	900	40k	25M§Δ				TO5
48	TRSP3743	56m	2.0	§	1.0		300	5.0	300	300n	10	30m	25	250	30M				F8
49	TRSP4000	56m	1.0	§	1.0		100	4.0	100	1.0u	10	10m	20	250	20M				TO5
50	TRSP4001	56m	1.0	§	1.0		150	4.0	150	1.0u	10	10m	20	250	20M				TO5
51	TRSP4002	56m	1.0	§	1.0	500m	200	4.0	200	3.0u	10	10m	20	250	20M				TO5
52	TRSP4003	56m	1.0	§	1.0	500m	250	4.0	250	3.0u	10	10m	20	250	20M				TO5
53	TRSP4930	56m	2.0	§	1.0		200	4.0	200	1.0u	10	10m	20	200	20M				F8
54	TRSP4931	56m	2.0	§	1.0		250	4.0	200	1.0u	10	10m	20	200	20M				F8
55	TRSP5281	56m	2.0	§	1.0		175	6.0	150	1.0u	10	10m	30	200	20M				F8
56	TRSP5282	56m	2.0	§	1.0		325	6.0	300	1.0u	10	10m	30	200	20M				F8
57	TRSP5415	56m	2.0	§	1.0	500m		4.0	200	50uΔ	10	50m	30	150	20M				F8
58	TRSP5416	56m	2.0	§	1.0	500m	350	6.0	300	50uΔ	10	50m	30	120	20M				F8
59	2N5781	57m	10 Ø	§J	3.5	1.0	80	5.0	80	1.0m#	2.0Ø	1.0	20	100	8.0M§Δ	625m			TO5 P
60	2N5782	57m	10 Ø	§J	3.5	1.0	65	5.0	65	1.0m#	2.0Ø	1.2	20	100	8.0M§Δ	625m			TO5 P
61	2N5783	57m	10 Ø	§J	3.5	1.0	45	3.5	45	1.0m#	2.0Ø	1.6	20	100	8.0M§Δ	625m			TO5 P
62	2N6190†	57m	10 Ø	§J	5.0	1.0	80 †	6.0†	80	10u♦	2.0Ø	2.0	30	120 #	30M§Δ		100n☑		TO39 AØ
63	2N6191†	57m	10 Ø	§J	5.0	1.0	80 †	6.0†	80	10u♦	2.0Ø	2.0	60	240 #	30M§Δ		100n☑		TO39 AØ
64	2N6192†	57m	10 Ø	§J	5.0	1.0	100 †	6.0†	100	10u♦	2.0Ø	2.0	30	120 #	30M§Δ		100n☑		TO39 AØ
65	2N6193†	57m	10 Ø	§J	5.0	1.0	100 †	6.0†	100	10u♦	2.0Ø	2.0	60	240 #	30M§Δ		100n☑		TO39 AØ
66	40595L	57m	1.2	§A	2.0	1.0		4.0	95 §☑	10u*	4.0Ø	300m	70	350		2.7			TO5 AØ
67	40595S	57m	1.2	§A	2.0	1.0		4.0	95 §☑	10u*	4.0Ø	300m	70	350		2.7			TO39 AØ
68#	BSS17	57m	10 Ø	§J	2.0	1.0	100	7.0	75	500nØ	4.0Ø	500m	30	130 #	50M§Δ		100nØ☑	PEΔ	TO39 AØ
69#	BSS18	57m	10 Ø	§J	2.0	1.0	75	5.0	50	5.0uØ	4.0Ø	500m	40	250 #	50M§Δ		100nØ☑	PEΔ	TO39 AØ
70♦	MJ5415	57m	10 Ø	§J	1.0	500m	200	4.0	200	50uØ♦	10Ø	50m	30	150 #	15M§Δ	50 #			TO39 A
71♦	MJ5416	57m	10 Ø	§J	1.0	500m	350	7.0	300	50uØ♦	10Ø	50m	30	120 #	15M§Δ	50 #			TO39 A
72	MJ8100†	57m	10 Ø	§J	5.0	1.0	60	5.0	60	10u	2.0Ø	2.0	25	180 #	30M§Δ		100nØ		TO39 A
73	MJ8101†	57m	10 Ø	§J	5.0	1.0	80	5.0	80	10u	2.0Ø	2.0	25	180 #	30M§Δ		100nØ		TO39 A
74	MM4005	57m	1.0	§J	1.0		60	3.0	60	100nØ	1.0Ø	1.0m	40		50M§Δ			AN	TO39 A
75	MM4006	57m	1.0	§J	1.0		80	3.0	80	100nØ	1.0Ø	1.0m	40		50M§Δ			AN	TO39 A
76	MM4007	57m	1.0	§J	1.0		100	3.0	100	100nØ	1.0Ø	1.0m	40		50M§Δ			AN	TO39 A
77	RCA1A04	57m	10 Ø	§J	2.0	1.0	95	4.0	95 §	10u*♦	4.0Ø	300m	70	300	50M§Δ	2.6		PE	TO39 AØ
78	RCA1A10	57m	10 Ø	§J	1.0	500m		6.0	175	10uΔ♦	10Ø	10m	40	250	15M§Δ	200		D	TO39 AØ
79	RCA1A16	57m	10 Ø	§J	1.0	100m		5.0	100	10uΔ♦	10Ø	10m	40	250	15M§Δ	100		E	TO39 AØ
80	STIP105	57m#	2.0 Ø	§S	1.0	500m	100	5.0	100 §	3.0u	10Ø	20m	30	200	30M			D	F8
81	STIP205	57m#	2.0 Ø	§S	1.0	500m	200	5.0	200 §	4.0u	10Ø	20m	30	200	30M			D	F8
82	STIP305	57m#	2.0 Ø	§S	1.0	500m	300	5.0	300 §	4.0u	10Ø	20m	25	200	30M			D	F8
83	STIP405	57m#	2.0 Ø	§S	1.0	500m	400	5.0	400 §	4.0u	10Ø	20m	25	200	30M			D	F8
84	TRLP2004	57m	1.0	§	1.0	500m	200	4.0	200 §	10u	10Ø	500m	15	35 Ø	20M§Δ				TO5
85	TRLP2005	57m	2.0	§	1.0	500m	200	4.0	200 §	10u	10Ø	500m	15	35 Ø	20M§Δ				F8
86	TRLP2254S	57m	1.0	§	1.0	500m	250	4.0	225 §	10u	10Ø	500m	15	35 Ø	20M§Δ				TO5
87	TRLP2255S	57m	2.0	§	1.0	500m	250	4.0	225	10u	10Ø	500m	15	35 Ø	20M§Δ				F8
88	TRLP2504	57m	1.0	§	1.0	500m	250	4.0	250 §	10u	10Ø	500m	15	35 Ø	20M§Δ				TO5
89	TRLP2505	57m	2.0	§	1.0	500m	250	4.0	250 §	10u	10Ø	500m	15	35 Ø	20M§Δ				F8
90	TRLP2505S	57m	2.0	§	1.0	500m	275	4.0	250	10u	10Ø	500m	15	35 Ø	20M§Δ				F8
91	TRLP2540S	57m	1.0	§	1.0	500m	275	4.0	250	10u	10Ø	500m	15	35 Ø	20M§Δ				TO5
92	TRLP2754S	57m	1.0	§	1.0	500m	300	4.0	275	10u	10Ø	500m	15	35 Ø	20M§Δ				TO5
93	TRLP2755S	57m	2.0	§	1.0	500m	300	4.0	275	10u	10Ø	500m	15	35 Ø	20M§Δ				F8
94	TRLP3004	57m	1.0	§	1.0	500m	300	4.0	300 §	10u	10Ø	500m	15	35 Ø	20M§Δ				TO5
95	TRLP3004S	57m	1.0	§	1.0	500m	325	4.0	300	10u	10Ø	500m	15	35 Ø	20M§Δ				TO5
96	TRLP3005	57m	2.0	§	1.0	500m	300	4.0	300 §	10u	10Ø	500m	15	35 Ø	20M§Δ				F8
97	TRLP3005S	57m	2.0	§	1.0	500m	325	4.0	300	10u	10Ø	500m	15	35 Ø	20M§Δ				F8
98	TRLP3504	57m	1.0	§	1.0	500m	350	4.0	350 §	10u	10Ø	500m	15	35 Ø	20M§Δ				TO5
99	TRLP3504S	57m	1.0	§	1.0	500m	375	4.0	350	10u	10Ø	500m	15	35 Ø	20M§Δ				TO5
100	TRLP3505	57m	2.0	§	1.0	500m	350	4.0	350 §	10u	10Ø	500m	15	35 Ø	20M§Δ				F8
101	TRLP3505S	57m	2.0	§	1.0	500m	375	4.0	350	10u	10Ø	500m	15	35 Ø	20M§Δ				F8
102	TRLP4004	57m	1.0	§	1.0	500m	200	4.0	400 §	10u	10Ø	500m	15	35 Ø	20M§Δ				TO5
103	TRLP4004S	57m	1.0	§	1.0	500m	425	4.0	400	10u	10Ø	500m	15	35 Ø	20M§Δ				TO5
104	TRLP4005	57m	2.0	§	1.0	500m	400	4.0	400 §	10u	10Ø	500m	15	35 Ø	20M§Δ				F8
105	TRLP4005S	57m	2.0	§	1.0	500m	425	4.0	400	10u	10Ø	500m	15	35 Ø	20M§Δ				F8
106	TRLP4504	57m	1.0	§	1.0	500m	450	4.0	450 §	10u	10Ø	500m	15	35 Ø	20M§Δ				TO5
107	TRLP4504S	57m	1.0	§	1.0	500m	475	4.0	450	10u	10Ø	500m	15	35 Ø	20M§Δ				TO5
108	TRLP4505	57m	2.0	§	1.0	500m	450	4.0	450 §	10u	10Ø	500m	15	35 Ø	20M§Δ				F8
109	TRLP4505S	57m	2 0	§	1.0	500m	475	4.0	450	10u	10Ø	500m	15	35 Ø	20M§Δ				F8
110	2N5151	60m	1.0	§J	5.0	2.5	100 †	5.5†	80	1.0m#♦	5.0Ø	2.5	30	90 #	60M§Δ				TO39 AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AE XM P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG
1#	2SB505	100m	10	§	3.0 #	500m	80	10	60	1.0uØ	2.0Ø	500m	40 #	300 #		1.0 #		PE	F19	
2#	BD136	100m	65 Ø	♦J	500m		45	5.0	45	100nØ	2 Ø	150m	40	250	75M§	1.0		PE	B16p	B
3	BD136☑	100m	1.2	♦J	1.5		45	5.0	45	100nØ♦	2.0Ø	150m	40	250 #		1.0 #		†	B16f	B
4#	BD138	100m	65 Ø	♦J	500m		60	5.0	60	100nØ	2.0Ø	150m	40	160	75M§	1.0		PE	B16p	B
5	BD138☑	100m	12	♦J	1.5		60	5.0	60	100nØ♦	2.0Ø	150m	40	160 #		1.0 #		†	B16f	B
6#	BD140	100m	6.5 Ø	♦J	500m			5.0	80	100nØ	2 Ø	150m	40	160	75M§	1.0		PE	B21	D
7	BD140☑	100m	12	♦J	1.5		80	5.0	80	100nØ♦	2.0Ø	150m	40	160 #		1.0 #		†	B16f	B
8	D43C1†	100m	2.1	§J	3.0			5.0	30	10u§	1.0Ø	200m	25		40M§	500m	50nØ	†	B15b	BØ
9	D43C2†	100m	2.1	§J	3.0			5.0	30	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	B15b	BØ
10	D43C3†	100m	2.1	§J	3.0			5.0	30	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	B15b	BØ
11	D43C4†	100m	2 1	§J	3.0			5.0	45	10u§	1.0Ø	200m	25		40M§	500m	50nØ	†	B15b	BØ
12	D43C5†	100m	2.1	§J	3.0			5.0	45	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	B15b	BØ
13	D43C6†	100m	2.1	§J	3.0			5.0	45	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	B15b	BØ
14	D43C7†	100m	2.1	§J	3.0			5.0	60	10u§	1.0Ø	200m	25		40M§	500m	50nØ	†	B15b	BØ
15	D43C8†	100m	2.1	§J	3.0			5.0	60	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	B15b	BØ
16	D43C9	100m	2.1	§J	3.0			5.0	60	10u§	1.0Ø	200m	40		40M§	500m	50nØ	†	B15b	BØ
17	D43C10	100m	2.1	§J	3.0			5.0	80	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	B15b	BØ
18	D43C11	100m	2.1	§J	3.0			5.0	80	10u§	1.0Ø	200m	25		40M§	500m	50nØ	†	B15b	BØ
19	D43C12	100m	2.1	§J	3.0			5.0	80	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	B15b	B
20	MJE170	100m	1.5	§J	3.0	1.0	60	7.0	40	100n	1.0Ø	100m	50	250	50M§Δ	600m		Δ	B6	B
21	MJE171	100m	1.5	§J	3.0	1.0	80	7.0	60	100n	1.0Ø	100m	50	250	50M§Δ	600m		Δ	B6	B
22	MJE172	100m	1.5	§J	3.0	1.0	100	7.0	80	100n	1.0Ø	100m	50	250	50M§Δ	600m		Δ	B6	B
23	SDT3575	100m	17		2.0	1.0	40	6.0	40	100u	1.0	250m	30	150	10M				TO66	
24	SDT3576	100m	17		2.0	1.0	60	6.0	60	100u	1.0	250m	30	150	10M				TO66	
25	SDT3577	100m	17		2.0	1.0	80	6.0	80	100u	1.0	250m	30	150	10M				TO66	
26	SDT3578	100m	17		2.0	1.0	40	5.0	30	100n	10	500m	25	100	40M			PL	TO66	
27	SDT3579	100m	17		2.0	1.0	60	5.0	50	100n	10	500m	25	100	40M			PL	TO66	
28	2N4387	114m	20 Ø	§J	2.0	300m	40	5.0	40	10u#♦	10Ø	500m	25	100	25M§Δ	3.0			TO66	CØ
29	2N4388	114m	20 Ø	§J	2.0	300m	60	5.0	60	10u#♦	10Ø	500m	25	100	25M§Δ	3.0			TO66	CØ
30	2N5161	114m	20 Ø	§S	1.5		60	4.0	40	100uØ	5.0Ø	250m	10						TO60	A☑
31	2N5597	114m	20	§J	2.0	1.0	80	5.5	60	1.0m#	5.0Ø	1.0	70	200 #	60M§Δ				TO66	CØ
32	2N5599	114m	20	§J	2.0	1.0	100	5.5	80	1.0m#	5.0Ø	1.0	30	90 #	50M§Δ				TO66	CØ
33	2N5601	114m	20	§J	2.0	1.0	100	5.5	80	1.0m#	5.0Ø	1.0	70	200 #	60M§Δ				TO66	CØ
34	2N5603	114m	20	§J	2.0	10	120	5.5	100	1.0m#	5.0Ø	1.0	30	90 #	50M§Δ				TO66	CØ
35	2N6095	114m	20 Ø	§S	2.5		36 †	4.0†	18	500uØ	5.0Ø	500m	15						W52	R
36	MRF432	114m	20 Ø	§S	2.5		36 †	4.0†	18	500uØ♦	5.0Ø	500u	15						W52k	R
37#	2SA613	119m	15 Ø	§J	2.0 #	500m	60	7.0	40	1.0mØ	5.0Ø	500m	30	200 #				PE	TO66	CØ
38	2N6411	120m	15 Ø	§J	4.0	1.0	40 †	6.0†	25	100uΔ♦	2.0Ø	2.0	45	180 #	50M§Δ	375m#			B16	DØ
39	2N6414	120m	15 Ø	§J	4.0	1.0	60 †	6.0†	40	100uΔ♦	3.0Ø	200m	40	250 #	50M§Δ	625m#			B16	DØ
40	2N6415	120m	15 Ø	§J	4.0	1.0	80 †	6.0†	60	100uΔ♦	3.0Ø	200m	40	250 #	50M§Δ	625m#			B16	DØ
41	2N6418	120m	15 Ø	§J	3.0	1.0	80 †	6.0†	80	100uΔ♦	3.0Ø	200m	40	250 #	40M§Δ	1.0 #			B16	DØ
42	2N6419	120m	15 Ø	§J	3.0	1.0	100 †	6.0†	100	100uΔ♦	3.0Ø	200m	40	250 #	40M§Δ	1.0 #			B16	DØ
43#	2SA653	120mØ	15 Ø	§	1.0		150	5.0	120	1.0mØ	5.0Ø	200m	40	200 #	5.0M§Δ			EM	TO66	CØ
44♦#	2SA748	120m	15	§J	3.0 #		70	5.0	50	1.0u	5.0Ø	1.0	30 †	220 †	120M§			PE	B26	D
45♦#	2SA913	120m	15 Ø	§J	1.0		150	5.0	150		10Ø	150m	65	330	120M§	1.2			B26	D
46▼#	2SA913A	120m	15 Ø	§J	1.0		180	5.0	180		10Ø	150m	65	330	120M§	3.0			B26	D
47	BD362	120m	15 Ø	§J	3.0	1.0	32	8.0	20	200n♦	1.0Ø	500m	80	320 #		800m#		PL	B16f	B
48	BD362A	120m	15 Ø	§J	3.0	1.0	32	8.0	20	200n♦	1.0Ø	500m	80	320 #		800m#		PL	B16f	B
49▼	HSE908-RT	120m	15 Ø	§J			90	5.0	80	100uØ	4.0Ø	100m	40		2.0M§Δ				TO66	CØ
50	MJE210	120m	1.5	§J	5.0	1 0	40	8.0	25	100n	1.0Ø	2.0	45	180 #	65M§Δ	600m			B6	B
51	MJE230	120m	1.5	§J	4.0	1.0	60	7.0	40	100n	1.0Ø	200m	40	200	50M§Δ	600m		Δ	B6	B
52	MJE231	120m	1.5	§J	4.0	1.0	60	7.0	40	100n	1.0Ø	200m	40	150	50M§Δ	600m		Δ	B6	B
53	MJE232	120m	1.5	§J	4.0	1.0	60	7.0	40	100n	1 0Ø	200m	25		50M§Δ	600m		Δ	B6	B
54	MJE233	120m	1.5	§J	4.0	1.0	80	7.0	60	100n	1.0Ø	200m	40	200	50M§Δ	600m		Δ	B6	B
55	MJE234	120m	1.5	§J	4.0	1.0	80	7.0	60	100n	1.0Ø	200m	40	150	50M§Δ	600m		Δ	B6	B
56	MJE235	120m	1.5	§J	4.0	1.0	80	7.0	60	100n	1.0Ø	200m	25		50M§Δ	600m		Δ	B6	B
57	MJE250	120m	1.5	§J	4.0	1.0	80	7.0	80	100n	1.0Ø	200m	40	200	40M§Δ	600m		Δ	B6	B
58	MJE251	120m	1.5	§J	4.0	1.0	80	7.0	80	100n	1.0Ø	200m	40	120	40M§Δ	600m		Δ	B6	B
59	MJE252	120m	1.5	§J	4.0	1.0	80	7.0	80	100n	1.0Ø	200m	25		40M§Δ	60m		Δ	B6	B
60	MJE253	120m	1.5	§J	4.0	1.0	100	7.0	100	100n	1.0Ø	200m	40	120	40M§Δ	600m		Δ	B6	B
61	MJE254	120m	1.5	§J	4.0	1.0	100	7.0	100	100n	1.0Ø	200m	25		40M§Δ	600m		Δ	B6	B
62	TIP62†	120m	15 Ø	§J	500m	400m	40	5.0	40		4.0Ø	500m	15	100	3.0M§	1.4		DM	B1	B
63	TIP62A†	120m	15 Ø	§J	500m	400m	60	5.0	60		4.0Ø	500m	15	100	3.0M§	1.4		DM	B1	B
64	TIP62B†	120m	15 Ø	§J	500m	400m	80	5.0	80		4.0Ø	500m	15	100	3.0M§	1.4		DM	B1	B
65	TIP62C†	120m	15 Ø	§J	500m	400m	100	5.0	100		4.0Ø	500m	15	100	3.0M§	1.4		DM	B1	B
66	2N5100	133m	10 Ø	§A	1.0	500m	450	6.0	400	5.0nØ	15Ø	100m	20	200	20M§Δ	120			F8	AØ
67	2N6424	133m	20 Ø	§J	250m	500m	250	6.0	225	250uΔ♦	10Ø	100m	40	200 #	10M§Δ	10 #			TO66	CØ
68	2N6425	133m	20 Ø	§J	250m	500m	325	6.0	300	250uΔ♦	10Ø	100m	40	200 #	10M§Δ	10 #			TO66	CØ
69	MJ3738	133m	20 Ø	§J	250m	500m	250	6.0	225	100u♦	10Ø	100m	40	200 #	10M§Δ			Δ	TO86	CØ
70	MJ3739	133m	20 Ø	§J	250m	500m	325	6.0	300	100u♦	10Ø	100m	40	200 #	10M§Δ			Δ	TO86	CØ
71	SRSP4296	133m	20 Ø	§J	1.0	500m	350	4.0	250	100u	10Ø	50m	50	150	5.0M§Δ			EM	TO66	CØ
72	SRSP4297	133m	20 Ø	§J	1.0	500m	350	4.0	250	100u	10Ø	50m	75	300	5.0M§Δ			EM	TO66	CØ
73	SRSP4298	133m	20 Ø	§J	1.0	500m	500	4.0	350	100u	10Ø	50m	25	75	5.0M§Δ			EM	TO66	CØ
74	SRSP4299	133m	20 Ø	§J	1.0	500m	500	4.0	350	100u	10Ø	50m	75	150	5.0M§Δ			EM	TO66	CØ
75	TRSP2006	133m	20 Ø	§	1.0	500m	200	6.0	200 §	100u	10Ø	50m	30	300	25M				TO66	
76	TRSP3006	133m	20 Ø	§	1.0	500m	300	6.0	300 §	100u	10Ø	50m	30	300	25M				TO66	
77	TRSP3738	133m	20 Ø	§	3.0	1.0	250	6.0	225	100u	10Ø	100m	40	200	20M§Δ				TO66	
78	TRSP3739	133m	20 Ø	§	3.0	1.0	325	6.0	300	100u	10Ø	100m	40	200	20M§Δ				TO66	
79	TRSP4006	133m	20 Ø	§	1.0	500m	400	6.0	400 §	100u	10Ø	50m	30	300	25M				TO66	
80	TRSP4016S	133m	20 Ø	§	1.0	500m	450	6.0	400	100u	10Ø	50m	30	300	2.5M				TO66	
81	TRSP4296	133m	20 Ø	§J	1.0	500m	350	4.0	250	100u	10Ø	50m	50	150	20M§Δ				TO66	
82	TRSP4297	133m	20 Ø	§J	1.0	500m	350	4.0	250	100u	10Ø	50m	75	300	20M§Δ				TO66	
83	TRSP4298	133m	20 Ø	§J	1.0	500m	500	4.0	350	100u	10Ø	50m	75	150	20M§Δ				TO66	
84	TRSP4299	133m	20 Ø	§J	1.0	500m	500	4.0	350	100u	10Ø	50m	75	150	20M§Δ				TO66	
85	TRSP4506	133m	20 Ø	§	1.0	500m	450	6.0	450 §	100u	10Ø	50m	30	300	25M				TO66	
86	TRSP5006	133m	20 Ø	§	1.0	500m	500	6.0	500 §	100u	10Ø	20m	30	300	25M				TO66	
87	TRSP6006	133m	20 Ø	§	1.0	500m	600	6.0	600 §	100u	10Ø	20m	30	300	25M				TO66	
88	TRSP7006	133m	20 Ø	§	1.0	500m	700	6.0	700 §	100u	10Ø	20m	30	300	25M				TO66	
89	TRSP8006	133m	20 Ø	§	1.0	500m	800	6.0	800 §	100u	10Ø	20m	30	300	25M				TO66	
90	2N2875	138m	20 Ø	§C	2.0	200m	60	5.0	50	1.0uØ	6.0Ø	1.5	15	60 #	25MΔ	3.0		PL	T21	
91♦#	BD227	142m	12 Ø	♦J	1.5		45	5.0	45	100nØ	2.0Ø	150m	40	250	50M§	800m		PE†	TO126	B
92♦#	BD229	142m	12 Ø	♦J	1.5		60	5.0	60	100nØ	2.0Ø	150m	40	160	50M§	800m		PE†	TO126	B
93♦#	BD231	142m	12 Ø	♦J	1.5		100	5.0	80	100nØ	2.0Ø	150m	40	160	50M§	800m		PE†	TO126	B
94#	BDX16	142m	25 Ø	§J	3.0 †	2.0	160 †	7.0	140	1.0m#♦	4.0Ø	500m	20	80	800k§Δ	2.0		H△	TO66	CØ
95	MJ2253	142m	25 Ø	§J	3.0	500m	70	7.0	60	1.0m	4.0Ø	250	20	100 #	3.0M§	800m			TO66	CØ
96	MJ2254	142m	25 Ø	§J	3.0	500m	90	7.0	80	1.0m	4.0Ø	250	20	100 #	3.0M§	800m			TO66	CØ
97	MJ3701	142m	25 Ø	§J	3.0	500m	50	5.0	40	1.0m	4.0Ø	250	20	100 #	3.0M§	800m			TO66	CØ
98	2N3740	143m	25 Ø	§J	1.0	2.0	60 †	7.0†	60	100n	1.0Ø	250m	30	100	4.0M§Δ	600m			TO66	CØ
99	JAN2N3740†	143m	25 Ø	§J	4.0	2.0	60	7.0	60 *	100n	1.0Ø	250m	30	100 #	5.0M§Δ	600m#	400nØ☑		TO66	CØ
100	2N3740A	143m	25 Ø	§J	1.0	2.0	60 †	7.0†	60	100n	1.0Ø	250m	30	100	4.0M§Δ	600m			TO66	CØ
101	2N3741	143m	25 Ø	§J	1.0	2.0	80 †	7.0†	80	100n	1.0Ø	250m	30	100	4.0M§Δ	600m			TO66	CØ
102	JAN2N3741†	143m	25 Ø	§J	4.0	2.0	80	7.0	80 *	100n	1.0Ø	250m	30	100 #	5.0M§Δ	600m#	400nØ☑		TO66	CØ
103	2N3741A	143m	25 Ø	§J	1.0	2.0	80 †	7 0†	80	100n	1.0Ø	250m	30	100	4.0M§Δ	600m			TO66	CØ
104	2N4898	143m	25 Ø	§J	1 0	1.0	40 †	5.0†	40	100uØ♦	1.0Ø	500m	20	100 #	30kΔ				TO66	CØ
105	2N4899	143m	25 Ø	§J	1.0	1.0	60 †	5.0†	60	100uØ♦	1.0Ø	500m	20	100 #	30kΔ				TO66	CØ
106	2N4900	143m	25 Ø	§J	1.0	1.0	80 †	5.0†	80	100uØ♦	1.0Ø	500m	100	100 #	30kΔ				TO66	CØ
107	2N5605	143m	25	§J	5.0	2.0	80	5.5	60	1.0m#	5.0Ø	2.5	70	200 #	70M§Δ				TO66	CØ
108	2N5607	143m	25	§J	5.0	2.0	100	5.5	80	1.0m#	5.0Ø	2.5	30	90 #	60M§Δ				TO66	CØ
109	2N5609	143m	25	§J	5.0	2.0	100	5.5	80	1.0m#	5.0Ø	2.5	70	200 #	70M§Δ				TO66	CØ
110	2N5611	143m	25	§J	5.0	2.0	120	5.5	100	1.0m#	5.0Ø	2.5	30	90 #	60M§Δ				TO66	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AE XM P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1#	2SB512	200m	25	J$	3.0 #	1.0	60	8.0	60	30u	3.0Ø	100m	40 †		70k			D	B17	B
2#	2SB512A	200m	25	J$	3.0 #	1.0	80	8.0	80	30u	3.0Ø	100m	40 †		70k			D	B17	B
3#	2SB513	200m	25	J$	3.0 #	1.0	60	8.0	60	30u	3.0Ø	100m	40 †		70k			D	B17a	B
4#	2SB513A	200m	25	J$	3.0 #	1.0	80	8.0	80	30u	3.0Ø	100m	40 †		70k			D	B17a	B
5#	2SB546A	200m	25 Ø	$J	2.0		200	5.0	150	50uØ	10Ø	400m	40 *	200 #	5.0M§	2.0		D	Y220b	XØ
6#	2SB547A	200m	25 Ø	$J	2.0		200	5.0	150	50uØ	10Ø	400m	40 *	200 #	5.0M§	2.0		D	Y220a	AJ
7#	2SB550	200m	25 Ø	$J	5.0		100	8.0	80	100uØ	5.0Ø	1.0	30	200 #				ME	TO66	CØ
8#	2SB551H	200m	25 Ø	$J	3.0		50	4.0	50	100u	4.0Ø	1.0	35	200	32M§	600m		D	TO66	CØ
9#	2SB563	200m	25 Ø	$J	3.0	1.0	80	5.0	70	100uØ	2.0Ø	1.0	30 #	200 #			400nØ	EM	TO66	CØ
10#	2SB630	200m	25 Ø	$J	2.0		200	5.0	200	1.0uØ	10Ø	500m	40 *	200 #	4.0M§	2.0		D	Y220b	XØ
11#	BD234	200m	25 Ø	$J	2.0	300m	45	5.0	45	100u	2.0Ø	150m	40	250 *	3.0M§Δ	600m	300nØ	E†	TO126	BØ
12	BD234☑	200m	25 Ø	$J	2.0	1.0	45	5.0	45	100u♦	2.0Ø	150m	40 #		3.0M§Δ	600m#		†	B16g	B
13#	BD236	200m	25 Ø	$J	2.0	300m	60	5.0	60	100u	2.0Ø	150m	40	250 *	3.0M§Δ	600m	300nØ	E†	TO126	BØ
14	BD236☑	200m	25 Ø	$J	2.0	1.0	60	5.0	60	100u♦	2.0Ø	150m	40 #		3.0M§Δ	600m#		†	B16g	B
15#	BD238	200m	25 Ø	$J	2.0	300m	100	5.0	80	100u	2.0Ø	150m	40	160	3.0M§Δ	600m	300nØ	E†	TO126	BØ
16	BD238☑	200m	25 Ø	$J	2.0	1.0	80	5.0	80	100u♦	2.0Ø	150m	40 #		3.0M§Δ	600m#		†	B16g	B
17#	BUX66†	200m	35 Ø	§J	2.0	1.0	200	6.0	150 ☑	10mΔ♦	5.0Ø	1.0	10	150 #	20M§Δ	2.5 #	600nØ☑		TO66	CØ
18#	BUX66A†	200m	35 Ø	§J	2.0	1.0	300	6.0	250 ☑	10mΔ♦	5.0Ø	1.0	10	150 #	20M§Δ	2.5 #	600nØ☑		TO66	CØ
19#	BUX66B†	200m	35 Ø	§J	2.0	1.0	350	6.0	300 ☑	5.0mΔ♦	5.0Ø	1.0	10	150 #	20M§Δ	2.5 #	600nØ☑		TO66	CØ
20#	BUX66C†	200m	35 Ø	§J	2.0	1.0	400	6.0	350 ☑	5.0mΔ♦	5.0Ø	1.0	10	150 #	20M§Δ	2.5 #	600nØ☑		TO66	CØ
21▼	HSE909-RT	200m	25 Ø	§J			90	4.0	80	100uØ	2.0Ø	1.5	30		3.0M§Δ				TO66	CØ
22	MJ3583	200m	35 Ø	§J	1.0	1.0	250	6.0	175	10mΔ♦	10Ø	500m	40	200	10M§Δ	5.0			TO66	CØ
23	MJ3584†	200m	35 Ø	§J	2.0	1.0	375	6.0	250	5.0mΔ♦	2.0Ø	750m	10	100	10M§Δ	750m	3.0u☑		TO66	CØ
24	MJ3585†	200m	35 Ø	§J	2.0	1.0	500	6.0	300	5.0mΔ♦	2.0Ø	1.0	8.0	80	10M§Δ	750m	3.0u☑		TO66	CØ
25	MJ4240†	200m	35 Ø	§J	2.0	1.0	500	6.0	300	5.0mΔ♦	2.0Ø	1.0	8.0	80	15M§Δ	1.3	500n☑		TO66	CØ
26	MJE370	200m	25 Ø	§J	3.0	2.0	30	4.0	30	100u♦	1.0Ø	1.0	25					†	B16d	B
27#	PN4054	200m	25 Ø	§J	4.0		50	4.0	50		4.0Ø	500mØ	30		800k§			PL	B17	DØ
28	RCA1E03	200m	35 Ø		2.0	1.0	200	5.0	175 ☑	100u*	2.0Ø	300m	30	150				D	TO66	CØ
29	SDT3801	200m	35		10	4.0	60	6.0	60	1.0m	2.0	1.0	25	90	10M				TO66	
30	SDT3802	200m	35		10	4.0	80	6.0	80	1.0m	2.0	1.0	25	90	10M				TO66	
31	SDT3803	200m	35		10	4.0	60	6.0	60	1.0m	2.0	1.0	50	180	10M				TO66	
32	SDT3804	200m	35		10	4.0	80	6.0	80	1.0m	2.0	1.0	50	180	10M				TO66	
33	SDT3805	200m	35		10	2.0	40	5.0	40	100u	5.0	5.0	20	80	10M				TO66	
34	SDT3806	200m	35		10	2.0	80	5.0	80	100u	5.0	5.0	20	80	10M				TO66	
35	SDT3807	200m	35		10	2.0	40	5.0	40	100u	5.0	5.0	40		10M				TO66	
36	ST40002†	200m#	300 Ø#	§J	60		80	8.0	80 *	100uØ	10Ø	20	20	120 #	20M§Δ		500nØ	PL	TO63	
37	ST40003†	200m#	300 Ø#	§J	60		100	8.0	100 *	100uØ	10Ø	20	20	120 #	20M§Δ		500nØ	PL	TO63	
38	ST40004†	200m#	300 Ø#	§J	60		120	8.0	120 *	100uØ	10Ø	20	20	120 #	20M§Δ		500nØ	PL	TO63	
39	TIP507	200m	2.0	§J	2.0 †	600m	150 †	5.0†	150	1.0m§♦	4.0Ø	1.0	30	120 #	50M§Δ	750m		PEΔ	TO59	A
40	TIP514	200m	2.0	§J	5.0 †	2.0	150 †	5.0†	150	1.0m§♦	4.0Ø	2.5	30	150 #	40M§Δ			PEΔ	TO66	CØ
41	TIP521	200m	2.0	§J	2.0 †	600m	200 †	5.0†	200	1.0m§♦	4.0Ø	1.0	20	100 #	50M§Δ			PEΔ	TO59	A
42#	MH0811	222m	5.0 Ø	§J	1.2		60	5.0	60	5.0uØ	5.0Ø	500m	30	60	100M§Δ				Y220b	
43#	MH0812	222m	5.0 Ø	§J	1.2		60	5.0	60	5.0uØ	5.0Ø	500m	50	120	100M§Δ				Y220b	
44#	MH0813	222m	5.0 Ø	§J	1.2		60	5.0	60	5.0uØ	5.0Ø	500m	100	240	100M§Δ				Y220b	
45#	MH0821	222m	5.0 Ø	§J	1.2		35	5.0	35	5.0uØ	5.0Ø	500m	30	60	100M§Δ				Y220b	
46#	MH0822	222m	5.0 Ø	§J	1.2		35	5.0	35	5.0uØ	5.0Ø	500m	50	120	100M§Δ				Y220b	
47#	MH0823	222m	5.0 Ø	§J	1.2		35	5.0	35	5.0uØ	5.0Ø	500m	100	240	100M§Δ				Y220b	
48#	MH0831	222m	5.0 Ø	§J	1.2		20	5.0	20	5.0uØ	5.0Ø	500m	20	75	100M§Δ				Y220b	
49#	MH0832	222m	5.0 Ø	§J	1.2		20	5.0	20	5.0uØ	5.0Ø	500m	60	120	100M§Δ				Y220b	
50#	MH0833	222m	5.0 Ø	§J	1.2		20	5.0	20	5.0uØ	5.0Ø	500m	100	175	100M§Δ				Y220b	
51#	MH0834	222m	5.0 Ø	§J	1.2		20	5.0	20	5.0uØ	5.0Ø	500m	150	250	100M§Δ				Y220b	
52#	MH0835	222m	5.0 Ø	§J	1.2		20	5.0	20	5.0uØ	5.0Ø	500m	250		100M§				Y220b	
53	2N3199	227m	40 Ø	§C	3.0	1.5	40	10	40	75u#	2.0Ø	1.0	20	60	1.0M§Δ	300m			T42c	AØ
54	2N3200	227m	40 Ø	§C	3.0	1.5	60	10	60	75u#	2.0Ø	1.0	20	60	1.0M§Δ	300m			T42c	AØ
55	2N3201	227m	40 Ø	§C	3.0	1.5	80	10	80	75u#	2.0Ø	1.0	20	60	1.0M§Δ	300m			T42c	AØ
56	2N3205	227m	40 Ø	§C	2.0	1.0	40	10	40	75u#	2.0Ø	500m	20	60	1.0M§Δ	800m			TO59	AØ
57	2N3206	227m	40 Ø	§C	2.0	1.0	60	10	60	75u#	2.0Ø	500m	20	60	1.0M§Δ	800m			TO59	AØ
58	2N3207	227m	40 Ø	§C	2.0	1.0	100	10	100	75u#	2.0Ø	500m	20	60	1.0M§Δ	800m			TO59	AØ
59	2N5344†	228m	40 Ø	§J	1.0 †	500m	250 †	5.0†	250	100u♦	5.0Ø	500m	25	150 #	60M§Δ	3.0 #	200nØ☑		TO66	CØ
60	2N5345†	228m	40 Ø	§J	1.0 †	500m	300 †	5.0†	300	100u♦	5.0Ø	500m	25	150 #	60M§Δ	3.0 #	200nØ☑		TO66	CØ
61	2N6096	228m	40 Ø	§S	4.0		36 †	4.0†	18	1.0mØ	5.0Ø	500m	15						W52	R
62#	BDX27-6	228m	40 Ø	§J	5.0	600m	40	5.0	40	100u§†	1.0Ø	1.0	40	100	50M§		500nØ☑	E	F39	
63#	BDX27-10	228m	40 Ø	§J	5.0	600m	40	5.0	40	100u§†	1.0Ø	1.0	63	160	50M§		500nØ☑	E	F39	
64#	BDX27-16	228m	40 Ø	§J	5.0	600m	40	5.0	40	100u§†	1.0Ø	1.0	100	250	50M§		500nØ☑	E	F39	
65#	BDX28-6	228m	40 Ø	§J	5.0	600m	60	5.0	60	100u§†	1.0Ø	1.0	40	100	50M§		500nØ☑	E	F39	
66#	BDX28-10	228m	40 Ø	§J	5.0	600m	60	5.0	60	100u§†	1.0Ø	1.0	63	160	50M§		500nØ☑	E	F39	
67#	BDX28-16	228m	40 Ø	§J	5.0	600m	60	5.0	60	100u§†	1.0Ø	1.0	100	250	50M§		500nØ☑	E	F39	
68#	BDX29-6	228m	40 Ø	§J	5.0	600m	80	5.0	80	100u§†	1.0Ø	1.0	40	100	50M§		500nØ☑	E	F39	
69#	BDX29-10	228m	40 Ø	§J	5.0	600m	80	5.0	80	100u§†	1.0Ø	1.0	63	160	50M§		500nØ☑	E	F39	
70#	BDX30-6	228m	40 Ø	§J	5.0	600m	100	5.0	100	100u§†	1.0Ø	1.0	40	100	50M§		500nØ☑	E	F39	
71#	BDX30-10	228m	40 Ø	§J	5.0	600m	100	5.0	100	100u§†	1.0Ø	1.0	63	160	50M§		500nØ☑	E	F39	
72	2N5112	229m	34 Ø	§J	1.0	500m	40	10	40	75u#	4.0Ø	500m	15	60	100M§	1.8			TO59	AØ
73	2N5113	229m	34 Ø	§J	1.0	500m	80	10	80	75u#	4.0Ø	500m	15	60	100M§	1.8			TO59	AØ
74	2N5954	232m	40 Ø	§J	6.0	2.0	90 †	5.0†	85 §	1.0mΔ♦	4.0Ø	2.0	20	100	5.0M§Δ	333m			TO66	CØ
75	2N5955	232m	40 Ø	§J	6.0	2.0	70 †	5.0†	65 §	2.0m#♦	4.0Ø	2.5	20	100	5.0M§Δ	333m			TO66	CØ
76	2N5956	232m	40 Ø	§J	6.0	2.0	50 †	5.0†	45 §	2.0m#♦	4.0Ø	3.0	20	100	5.0M§Δ	333m			TO66	CØ
77	2N6467	232m$	23 Ø	§J	4.0 †	2.0	110 †	5.0†	110 #*	1.0mΔ♦	4.0Ø	1 5	15	150 #	5.0M§Δ	1.0 #			TO66	CØ
78	2N6468	232m$	23 Ø	§J	4.0 †	2.0	130 †	5.0†	130 #*	1.0mΔ♦	4.0Ø	1.5	15	150 #	5.0M§Δ	1.0 #			TO66	CØ
79	RCS32	232m	40 Ø	§J	5.0	1.0	40	5.0	40	500uΔ	4.0Ø	3.0	10	50	3.0M§Δ		200nØ	E	TO66	CØ
80	RCS32A	232m	40 Ø	§J	5.0	1.0	60	5.0	60	500uΔ	4.0Ø	3.0	10	50	3.0M§Δ		200nØ	E	TO66	CØ
81	RCS32B	232m	40 Ø	§J	5.0	1.0	80	5.0	80	500uΔ	4.0Ø	3.0	10	50	3.0M§Δ		200nØ	E	TO66	CØ
82	RCS32C	232m	40 Ø	§J	5.0	1.0	100	5.0	100	500uΔ	4.0Ø	3.0	10	50	3.0M§Δ		200nØ	E	TO66	CØ
83	2N4918	238m	30 Ø	§J	1.0	1.0	40	5.0	40	100u	1.0Ø	500m	20	100 #	3.0M§Δ				B16	BØ
84	2N4919	238m	30 Ø	§J	1.0	1.0	60	5.0	60	100u	1.0Ø	500m	20	100 #	3.0M§Δ				B16	BØ
85	2N4920	238m	30 Ø	§J	1.0	1.0	80	5.0	80	100u	1.0Ø	500m	20	100 #	3.0M§Δ				B16	BØ
86#	BD240†	238m	2.0	§J	1.0	400m		5.0	45	200u§	4.0Ø	200m	40 #		3.0M§Δ	700m	200nØ	D	B1	D
87#	BD240A†	238m	2.0	§J	1.0	400m		5.0	60	200u§	4.0Ø	200m	40 #		3.0M§Δ	700m	200nØ	D	B1	D
88#	BD240B†	238m	2.0	§J	1.0	400m		5.0	80	200u§	4.0Ø	200m	40 #		3.0M§Δ	700m	200nØ	D	B1	D
89#	BD240C†	238m	2.0	§J	1.0	400m		5.0	100	200u§	4.0Ø	200m	40 #		3.0M§Δ	700m	200nØ	D	B1	D
90	D45C1†	238m	1.6	§J	4.0			5.0	30	10u§	1.0Ø	1.0	10		40M§		50nØ	†	B22	BØ
91	D45C2†	238m	1.6	§J	4.0			5.0	30	10u§	1.0Ø	200m	40	120	40M§		50nØ	†	B22	BØ
92	D45C3†	238m	1.6	§J	4.0			5.0	30	10u§	1.0Ø	200m	40	120	40M§		50nØ	†	B22	BØ
93	D45C4†	238m	1.6	§J	4.0			5.0	45	10u§	1.0Ø	1.0	10		40M§		50nØ	†	B22	BØ
94	D45C5†	238m	1.6	§J	4.0			5.0	45	10u§	1.0Ø	200m	40	120	40M§		50nØ	†	B22	BØ
95	D45C6†	238m	1.6	§J	4.0			5.0	45	10u§	1.0Ø	200m	40	120	40M§		50nØ	†	B22	BØ
96	D45C7†	238m	1.6	§J	4.0			5.0	45	10u§	1.0Ø	1.0	10		40M§		50nØ	†	B22	BØ
97	D45C8†	238m	1.6	§J	4.0			5.0	45	10u§	1.0Ø	200m	40	120	40M§		50nØ	†	B22	BØ
98	D45C9†	238m	1.6	§J	4.0			5.0	45	10u§	1.0Ø	2.0	20		40M§		50nØ	†	B22	BØ
99	D45C10	238m	1.6	§J	4.0			5.0	80	10u§	1.0Ø	1.0	10		40M§		50nØ	†	B22	BØ
100	D45C11	238m	1.6	§J	4.0			5.0	80	10u§	1.0Ø	200m	40	120	40M§		50nØ	†	B22	BØ
101	D45C12	238m	1.6	§J	4.0			5.0	80	10u§	1.0Ø	200m	40	120	40M§	500m	50nØ	†	B22	D
102	RCA30†	239m	2.0	§J	3.0	1.0	40	5.0	40	300uΔ♦	4.0Ø	1.0	15	150 #	3.0M§Δ		200nØ	E†	Y220b	XØ
103	RCA30A†	239m	2.0	§J	3.0	1.0	60	5.0	60	300uΔ♦	4.0Ø	1.0	15	150 #	3.0M§Δ		200nØ	E†	Y220b	XØ
104	RCA30B†	239m	2.0	§J	3.0	1.0	80	5.0	80	300uΔ♦	4.0Ø	1.0	15	150 #	3.0M§Δ		200nØ	E†	Y220b	XØ
105	RCA30C†	239m	2.0	§J	3.0	1.0	100	5.0	100	300uΔ♦	4.0Ø	1.0	15	150 #	3.0M§Δ		200nØ	E†	Y220b	XØ
106	2N5357†	240m§	30 Ø	§J	3.0	1.0	300	4.0	300	25u#	5.0Ø	500m	25	100	50M§Δ	3.0	100nØ☑		TO37	AØ
107#	2SA768	240m	30 Ø	§J	4.0	1.0	60	6.0	60	1.0m	4.0Ø	1.0	40	400	10M§	500m			B26	DØ
108#	2SA769	240m	30 Ø	§J	4.0	1.0	80	6.0	80	1.0m	4.0Ø	1.0	40	400	10M§	500m			B26	DØ
109#	2SB567	240m	30 Ø	§J	2.0		200	6.0	150	1.0u	4.0Ø	50m	60	320		4.0		D	B17a	BØ
110#	2SB568	240m	30 Ø	§J	2.0		200	6.0	150	1.0u	4.0Ø	50m	60	320		4.0		D	B17	BØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG
1	2N6106	320m	40 Ø	§J	7.0	3.0	80 †	5.0†	70	1.0m△♦	4.0Ø	2.0	30	150	10M§△	500m			Y220a	TØ
2	2N6107	320m	40 Ø	§J	7.0	3.0	80 †	5.0†	70	1.0m△♦	4.0Ø	2.0	30	150	10M§△	500m			Y220b	DØ
3	2N6108	320m	40 Ø	§J	7.0	3.0	60 †	5.0†	50	1.0m△♦	4.0Ø	2.5	30	150	10M§△	500m			Y220a	TØ
4	2N6109	320m	40 Ø	§J	7.0	3.0	60 †	5.0†	50	1.0m△♦	4.0Ø	2.5	30	150	10M§△	500m			Y220b	DØ
5	2N6110	320m	40 Ø	§J	7.0	3.0	40 †	5.0†	30	1.0m△♦	4.0Ø	3.0	30	150	10M§△	500m			Y220a	TØ
6	2N6111	320m	40 Ø	§J	7.0	3.0	40 †	5.0†	30	1.0m△♦	4.0Ø	3.0	30	150	10M§△	500m			Y220b	DØ
7	2N6124	320m	40 Ø	§J	4.0	1.0	45 †	5.0†	45	100u♦	2.0Ø	1.5	25	100 #	2.5M§△	350m#			Y220b	DØ
8	2N6125	320m	40 Ø	§J	4.0	1.0	60 †	5.0†	60	100u♦	2.0Ø	1.5	25	100 #	2.5M§△	350m#			Y220b	DØ
9	2N6126	320m	40 Ø	§J	4.0	1.0	80 †	5.0†	80	100u♦	2.0Ø	1.5	20	80 #	2.5M§△	350m#			Y220b	DØ
10	2N6475	320m$	16 Ø	§J	4.0 †	2.0	110 †	5.0†	110 #*	1.0m△♦	4.0Ø	1.5	15	150 #	10M§△	625m#			Y220b	DØ
11	2N6476	320m$	16 Ø	§J	4.0 †	2.0	130 †	5.0†	130 #*	1.0m△♦	4.0Ø	1.5	15	150 #	10M§△	625m#			Y220b	DØ
12#	2SA770	320m	40 Ø	§J	6.0	3.0	60	6.0	60	1.0m	4.0Ø	1.0	40	400	10M§	333m			B26	DØ
13#	2SA771	320m	40 Ø	§J	6.0	3.0	80	6.0	80	1.0m	4.0Ø	1.0	40	400	10M§	333m			B26	DØ
14#	2SB609	320m	40 Ø	§J	4.0		100	4.0	80	100u	4.0Ø	50m	60	320		900m		E	TO66	CØ
15	40872	320m	40 Ø	§J	7.0	3.0		5.0	100	1.0m*	4.0	1.0	50	250	10M§△			E	Y220b	DØ
16	40874	320m	40 Ø	§J	7.0	3.0		5.0	70 ☑	1.0m*	4.0	2.0	30	150	10M§△	500m		E	Y220b	DØ
17	40876	320m	40 Ø	§J	7.0	3.0		5.0	50 ☑	1.0m*	4.0	3.0	20	120	10M§△	333m		E	Y220b	DØ
18	41501	320m	40 Ø	§J	7.0	3.0	35 †	3.0†	25 ☑	30 *♦	4.0Ø	1.0	13 Ø					E	Y220b	DØ
19	BD186	320m	40 Ø	§J	4.0	2.0	40	5.0	30	100u♦	2.0Ø	500m	40 #		2.0M§△	500m#		†	B16	B
20	BD188	320m	40 Ø	§J	4.0	2.0	55	5.0	45	100u♦	2.0Ø	500m	40 #		2.0M§△	500m#		†	B16	B
21	BD190	320m	40 Ø	§J	4.0	2.0	70	5.0	60	100u♦	2.0Ø	500m	40 #		2.0M§△	500m#		†	B16	B
22#	BD242†	320m	2.0	§J	3.0	1.0		5.0	45 ☑	300u§	4.0Ø	3.0	20 #		3.0M§△	400m	200nØ	D	B1	D
23#	BD242A†	320m	2.0	§J	3.0	1.0		5.0	60 ☑	300u§	4.0Ø	3.0	20 #		3.0M§△	400m	200nØ	D	B1	D
24#	BD242B†	320m	2.0	§J	3.0	1.0		5.0	80 ☑	300u§	4.0Ø	3.0	20 #		3.0M§△	400m	200nØ	D	B1	D
25#	BD242C†	320m	2.0	§J	3.0	1.0		5.0	100 ☑	300u§	4.0Ø	3.0	20 #		3.0M§△	400m	200nØ	D	B1	D
26	BD562	320m	40 Ø	§J	4.0	2.0	45	5.0	40	100u♦	1.0Ø	2.0	60 #			500m#			B16f	B
27	BD576	320m	40 Ø	§J	3.0	1.0	45	5.0	45	100u♦	2.0Ø	150m	40 #		3.0M§△	600m#		†	B16h	D
28	BD578	320m	40 Ø	§J	3.0	1.0	60	5.0	60	100u♦	2.0Ø	150m	40 #		3.0M§△	600m#		†	B16h	D
29	BD580	320m	40 Ø	§J	3.0	1.0	80	5.0	80	100u♦	2.0Ø	150m	30 #		3.0M§△	600m#		†	B16h	D
30	BD582	320m	40 Ø	§J	3.0	1.0	100	5.0	100	100u♦	2.0Ø	150m	30 #		3.0M§△	600m#		†	B16h	D
31	BD586☑	320m	40 Ø	§J	4.0	1.5	45	5.0	45	100u♦	2.0Ø	500m	40 #		3.0M§△	400m#		†	B16h	D
32	BD588☑	320m	40 Ø	§J	4.0	1.5	60	5.0	60	100u♦	2.0Ø	500m	40 #		3.0M§△	400m#		†	B16h	D
33	BD590☑	320m	40 Ø	§J	4.0	1.5	80	5.0	80	100u♦	2.0Ø	500m	30 #		3.0M§△	400m#		†	B16h	D
34	BD592	320m	40 Ø	§J	4.0	1.5	100	5.0	100	100u♦	2.0Ø	500m	30 #		3.0M§△	400m#		†	B16h	D
35#	BD734	320m	2.0	$	4.0	1.0	22	5.0	22	200u§	1.0Ø	2.0	50			400m	300nØ	D△	B1	D
36#	BD736	320m	2.0	$	4.0	1.0	32	5.0	32	200u§	1.0Ø	2.0	50			400m	300nØ	D△	B1	D
37#	BD738	320m	2.0	$	4.0	1.0	45	5.0	45	200u§	1.0Ø	2.0	40			400m	300nØ	D△	B1	D
38▼	HSE2010-RT	320m	40 Ø	§J			40	5.0	40	50u	4.0Ø	1.0	25		500k§△				B1	B
39▼	HSE2011-RT	320m	40 Ø	§J			60	5.0	60	50u	4.0Ø	1.0	25		500k§△				B1	B
40▼	HSE2012-RT	320m	40 Ø	§J			80	5.0	80	50u	4.0Ø	1.0	25		500k§△				B1	B
41	MJE32†	320m	40 Ø	§J	3.0	1.0	40	5.0	40	300u△♦	4.0Ø	1.0	25		3.0M§△	400m	500nØ		B16f	D
42	MJE32A†	320m	40 Ø	§J	3.0	1.0	60	5.0	60	300u△♦	4.0Ø	1.0	25		3.0M§△	400m	500nØ		B16f	D
43	MJE32B†	320m	40 Ø	§J	3.0	1.0	80	5.0	80	300u△♦	4.0Ø	1.0	25		3.0M§△	400m	500nØ		B16f	D
44	MJE32C†	320m	40 Ø	§J	3.0	1.0	100	5.0	100	300u△♦	4.0Ø	1.0	25		3.0M§△	400m	500nØ		B16f	D
45	MJE370K	320m	40 Ø	§J	3.0	2.0	30	4.0	30	100u♦	1.0Ø	1.0	25					†	B23	D
46	MJE371	320m	40 Ø	§J	4.0	2.0	40	4.0	40	100u♦	1.0Ø	1.0	40 #					△	B16d	B
47	NSP370	320m	40 Ø	§J	3.0	2.0	30	4.0	30	100u	1.0Ø	1.0	25					EM†	Y220b	D
48	NSP371	320m	40 Ø	§J	4.0	2.0	40	4.0	40	100u	1.0Ø	1.0	40					EM†	Y220b	D
49	NSP586	320m	40 Ø	§J	4.0	1.5	45	5.0	45	100u	1.0Ø	1.0	40		3.0M△			EM†	Y220b	D
50	NSP588	320m	40 Ø	§J	4.0	1.5	60	5.0	60	100u	1.0Ø	1.0	40		3.0M△			EM†	Y220b	D
51	NSP590	320m	40 Ø	§J	4.0	1.5	80	5.0	80	100u	1.0Ø	1.0	30		3.0M△			EM†	Y220b	D
52	NSP4918	320m	40 Ø	§J	3.0	1.0	40	5.0	40	100u	1.0Ø	500m	20	100	3.0M△			EM†	Y220b	D
53	NSP4919	320m	40 Ø	§J	3.0	1.0	60	5.0	60	100u	1.0Ø	500m	20	100	3.0M△			EM†	Y220b	D
54	NSP4920	320m	40 Ø	§J	3.0	1.0	80	5.0	80	100u	1.0Ø	500m	20	100	3.0M△			EM†	Y220b	D
55#	PC200	320m	40 Ø	§J	4.0		50	5.0	40	100u	1.0Ø	500m	40	250	3.0M§△	600m		ME	B19	B
56#	PC210	320m	40 Ø	§J	4.0		60	5.0	60	100u	1.0Ø	500m	40	250	3.0M§△	600m		ME	B19	B
57#	PC220	320m	40 Ø	§J	4.0			5.0	80	100u	1.0Ø	500m	40	250	3.0M§△	600m		ME	B19	B
58	PTC162-RT	320m	40 Ø		4.0		60	5.0	60	100u	2.0Ø	1.5	25	100	2.0M§				B16	BØ
59	RCA1C04	320m	40 Ø	§J	4.0	2.0	120	5.0	100	1.0m*♦	4.0Ø	1.0	50	250	10M§△	1.0		E	Y220b	DØ
60	RCA1C06	320m	40 Ø	§J	7.0	3.0	60	5.0	50	1.0m*♦	4.0Ø	3.0	20	120	10M§△	333m		E	Y220b	DØ
61	RCA1C11	320m	40 Ø	§J	7.0	3.0	40	5.0	40	10u*♦	4.0Ø	1.5	50	250	10M§△	666m		E	Y220b	DØ
62	RCA1C13	320m	40 Ø	§J	4.0	2.0	140	5.0	120	100u*♦	2.0Ø	1.0	40	250	10M§△			E	Y220b	DØ
63	RCA32†	320m	2.0	§J	5.0	1.0	40	5.0	40	300u△♦	4.0Ø	3.0	10	50 #	3.0M§△		200nØ	Et	Y220b	XØ
64	RCA32A†	320m	2.0	§J	5.0	1.0	60	5.0	60	300u△♦	4.0Ø	3.0	10	50 #	3.0M§△		200nØ	Et	Y220b	XØ
65	RCA32B†	320m	2.0	§J	5.0	1.0	80	5.0	80	300u△♦	4.0Ø	3.0	10	50 #	3.0M§△		200nØ	Et	Y220b	XØ
66	RCA32C†	320m	2.0	§J	5.0	1.0	100	5.0	100	300u△♦	4.0Ø	3.0	10	50 #	3.0M§△		200nØ	Et	Y220b	XØ
67▼#	S1237	320m	40 Ø	§J	4.0	4.0 Ø	100	5.0	90	20uØ	5.0Ø	500m	40	200	10M§	500m		DME	B26a	D
68	TIP32†	320m	2.0	§J	3.0 †	1.0	40 †	5.0†	40	300u△♦	4.0Ø	3.0	10	50 #	3.0M§△	400m#	300nØ	DM	B1	BØ
69▼	TIP32☑†	320m	2.0	§J	5.0	1.0	40	5.0	40	200u§	4.0Ø	3.0	10	50 #	3.0M§△	400m#	200nØ	Et	Y220b	XØ
70	TIP32A†	320m	2.0	§J	3.0 †	1.0	60 †	5.0†	60	300u△♦	4.0Ø	3.0	10	50 #	3.0M§△	400m#	300nØ	DM	B1	BØ
71▼	TIP32A☑†	320m	2.0	§J	5.0	1.0	60	5.0	60	200u§	4.0Ø	3.0	10	50 #	3.0M§△	400m#	200nØ	Et	Y220b	XØ
72	TIP32B†	320m	2.0	§J	3.0 †	1.0	80 †	5.0†	80	300u△♦	4.0Ø	3.0	10	50 #	3.0M§△	400m#	300nØ	DM	B1	BØ
73▼	TIP32B☑†	320m	2.0	§J	5.0	1.0	80	5.0	80	200u§	4.0Ø	3.0	10	50 #	3.0M§△	400m#	200nØ	Et	Y220b	XØ
74	TIP32C†	320m	2.0	§J	3.0 †	1.0	100 †	5.0†	100	300u△♦	4.0Ø	3.0	10	50 #	3.0M§△	400m#	300nØ	DM	B1	BØ
75▼	TIP32C☑†	320m	2.0	§J	5.0	1.0	100	5.0	100	200u§	4.0Ø	3.0	10	50 #	3.0M§△	400m#	200nØ	Et	Y220b	XØ
76	2N5613	330m#	50 Ø	§J	5.0	2.0	80 †	5.5†	60	1.0m#♦	5.0Ø	2.5	70	200 #	70M§△				TO3	CØ
77	2N5615	330m#	50 Ø	§J	5.0	2.0	100 †	5.5†	80	1.0m#♦	5.0Ø	2.5	30	90 #	60M§△				TO3	CØ
78	2N5617	330m#	50 Ø	§J	5.0	2.0	100 †	5.5†	80	1.0m#♦	5.0Ø	2.5	70	200 #	70M§△				TO3	CØ
79	2N5619	330m#	50 Ø	§J	5.0	2.0	120 †	5.5†	100	1.0m#♦	5.0Ø	2.5	30	90 #	60M§△				TO3	CØ
80	2N5286	333m#	50 Ø	§J	5.0	2.0	100	5.5	100	1.0m#	5.0Ø	2.5	30	90 #	60M§△				TO59	A
81	2N5287	333m#	50 Ø	§J	5.0	2.0	100	5.5	100	1.0m#	5.0Ø	2.5	70	200 #	70M§△				TO59	A
82	ST72036†	333m#	45 Ø#	§J	5.0		80	8.0	80 *	20uØ	10Ø	2.0	30	120 #	20M§△		500nØ	PL	TO59	
83	ST72037†	333m#	45 Ø#	§J	5.0		100	8.0	100 *	20uØ	10Ø	2.0	30	120 #	20M§△		500nØ	PL	TO59	
84	ST72038†	333m#	45 Ø#	§J	5.0		120	8.0	120 *	20uØ	10Ø	2.0	30	120 #	20M§△		500nØ	PL	TO59	
85	2N6097	343m	60 Ø	§S	6.0		36 †	4.0†	18	2.5mØ	5.0Ø	500m	15						W52	R
86	2N6182†	343m	60 Ø	§J	10	2.0	80 †	6.0†	80	10u♦	2.0Ø	2.0	30	120 #	30M§△		100nØ		TO59	AØ
87	2N6183†	343m	60 Ø	§J	10	2.0	80 †	6.0†	80	10u♦	2.0Ø	2.0	60	240 #	30M§△		100nØ		TO59	AØ
88	2N6184†	343m	60 Ø	§J	10	2.0	100 †	6.0†	100	10u♦	2.0Ø	2.0	30	120 #	30M§△		100nØ		TO59	AØ
89	2N6185†	343m	60 Ø	§J	10	2.0	100 †	6.0†	100	10u♦	2.0Ø	2.0	60	240 #	30M§△		100nØ		TO59	AØ
90	2N6186†	343m	60 Ø	§J	10	2.0	80 †	6.0†	80	10u♦	2.0Ø	2.0	30	120 #	30M§△		100nØ		TO59	AØ
91	2N6187†	343m	60 Ø	§J	10	2.0	80 †	6.0†	80	10u♦	2.0Ø	2.0	60	240 #	30M§△		100nØ		TO59	AØ
92	2N6188†	343m	60 Ø	§J	10	2.0	100 †	6.0†	100	10u♦	2.0Ø	2.0	30	120 #	30M§△		100nØ		TO59	AØ
93	2N6189†	343m	60 Ø	§J	10	2.0	100 †	6.0†	100	10u♦	2.0Ø	2.0	60	240 #	30M§△		100nØ		TO59	AØ
94	MJ500†	343m	60 Ø	§J	7.0	1.0	60	5.0	60	10u	2.0Ø	2.0	25	180 #	30M§△	350m#	100nØ		TO59	AØ
95	MJ501†	343m	60 Ø	§J	7.0	1.0	80	5.0	80	10u	2.0Ø	2.0	25	180 #	30M§△	350m#	100nØ		TO59	AØ
96	MJ6700†	343m	60 Ø	§J	7.0	1.0	60	5.0	60	10u	2.0Ø	2.0	25	180 #	30M§△		100nØ		TO59	A
97	MJ6701†	343m	60 Ø	§J	7.0	1.0	80	5.0	80	10u	2.0Ø	2.0	25	180 #	30M§△		100nØ		TO59	A
98♦#	2SA764	357m	40 Ø	§J	6.0	3.0	60	6.0	60	1.0m	4.0Ø	1.0	30		15M§	500m		EM	TO66	CØ
99♦#	2SA765	357m	40 Ø	§J	6.0	3.0	80	6.0	80	1.0m	4.0Ø	1.0	30		15M§	500m		EM	TO66	CØ
100#	BD540	360m	45 Ø	§J	5.0 †	1.0	40	5.0	40	200u§	4.0Ø	1.0	30		3.0M§△	400m	300nØ	E	B1	BØ
101#	BD540A	360m	45 Ø	§J	5.0 †	1.0	60	5.0	60	200u§	4.0Ø	1.0	30		3.0M§△	400m	300nØ	E	B1	BØ
102#	BD540B	360m	45 Ø	§J	5.0 †	1.0	80	5.0	80	200u§	4.0Ø	1.0	30		3.0M§△	400m	300nØ	E	B1	BØ
103#	BD540C	360m	45 Ø	§J	5.0 †	1.0	100	5.0	100	200u§	4.0Ø	1.0	30		3.0M§△	400m	300nØ	E	B1	BØ
104#	BD540D	360m	45 Ø	§J	5.0 †	1.0	120	5.0	120	200u§	4.0Ø	1.0	30		3.0M§△	400m	300nØ	E	B1	BØ
105	2N6132	400m	50 Ø	§J	7.0	3.0	40 †	5.0†	40	500u♦	4.0Ø	2.5	20	100 #	2.5M§△				Y220b	DØ
106	2N6133	400m	50 Ø	§J	7.0	3.0	60 †	5.0†	60	500u♦	4.0Ø	2.5	20	100 #	2.5M§△				Y220b	DØ
107	2N6134	400m	50 Ø	§J	7.0	3.0	80 †	5.0†	80	500u♦	4.0Ø	2.5	20	100 #	2.5M§△				Y220b	DØ
108#	2SA756	400m	50 Ø	§J	6.0		100	6.0	80	1.0mØ	5.0Ø	1.0	35	200 *	20M§	300m		D	TO3	A
109♦#	2SB506	400m	60 Ø	§J	5.0	1.5	150	7.0	100	2.0mØ	10Ø	1.0	35 #	200 #	10M§	200m#		EM	TO3	CØ
110#	2SB506A	400m	60 Ø	§J	5.0		150	7.0	150	1.0u	5.0Ø	1.0	35	200 #		200m#		E	TO3	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AE XM P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #L C Y200 s/a TO200 Ser.	E O A D D E
1	SDT3109†	500m	3.0	§J	10	4.0	120	6.0	120	10m#	5.0Ø	5.0	30	90 #	30M§△		200n	PE	TO61	A
2	SDT3115	500m	87		10		40	6.0	40	10u	5.0Ø	5.0	20	80	40M	150m			TO61	
3	SDT3116	500m	87		10		60	6.0	60	10u	5.0Ø	5.0	20	80	40M	150m			TO61	
4	SDT3117	500m	87		10		80	6.0	80	10u	5.0Ø	5.0	20	80	40M	150m			TO61	
5	SDT3118	500m	87		10		100	6.0	100	10u	5.0Ø	5.0	20	80	40M	150m			TO61	
6	SDT3119	500m	87		10		120	6.0	120	10u	5.0Ø	5.0	20	80	40M	150m			TO61	
7	ST72015	500m§	50 Ø		10		60	7.0	60	1.0uØ	2.0Ø	3.0	30	200	30M§△			PE	TO61	
8	ST72016	500m§	50 Ø		10		80	7.0	80	2.0uØ	2.0Ø	3.0	30	200	30M§△			PE	TO61	
9	ST72017	500m§	50 Ø		10		100	7.0	100	2.0uØ	2.0Ø	3.0	30	200	30M§△			PE	TO61	
10	TIP519	500m	4.0	§J	8.0 †	3.0	150 †	5.0†	150	1.0m§♦	4.0Ø	4.0	30	150 #	40M§△			PE△	TO3	CØ
11	TIP520	500m	3.5	§J	8.0 †	3.0	150 †	5.0†	150	1.0m§♦	4.0Ø	4.0	30	150 #	40M§△			PE△	TO61	A
12	SCC421	511m	100 Ø	§A	10	4.0		5.0	60 ☑	1.0m#	4.0Ø	3.0	20	100		333m		DME	TO3	CØ
13	2N6317†	515m	90 Ø	§J	7.0	2.0	60 †	5.0†	60	250u#♦	4.0Ø	2.5	20	100 #	4.0M§△		700n☑		TO66	CØ
14	2N6318†	515m	90 Ø	§J	7.0	2.0	80 †	5.0†	80	250u#♦	4.0Ø	2.5	20	100 #	4.0M§△		700n☑		TO66	CØ
15#	BDX92†	515m	90 Ø	§J	8.0		60	5.0	60	100u	2.0Ø	3.0	20 #		4.0M§△	266m	1.0uØ☑	E	TO3	CØ
16#	BDX94†	515m	90 Ø	§J	8.0		80	5.0	80	100u	2.0Ø	3.0	20 #		4.0M§△	266m	1.0uØ☑	E	TO3	CØ
17#	BDX96†	515m	90 Ø	§J	8.0		100	5.0	100	100u	2.0Ø	3.0	20 #		4.0M§△	266m	1.0uØ☑	E	TO3	CØ
18#	BD244†	520m	65 Ø	§J	6.0	3.0		5.0	45 ☑	400u§	4.0Ø	3.0	15		3.0M§△	250m	200nØ	D	B1	D
19#	BD244A†	520m	65 Ø	§J	6.0	3.0		5.0	60 ☑	400u§	4.0Ø	3.0	15		3.0M§△	250m	200nØ	D	B1	D
20#	BD244B†	520m	65 Ø	§J	6.0	3.0		5.0	80 ☑	400u§	4.0Ø	3.0	15		3.0M§△	250m	200nØ	D	B1	D
21#	BD244C†	520m	65 Ø	§J	6.0	3.0		5.0	100 ☑	400u§	4.0Ø	3.0	15		3.0M§△	250m	200nØ	D	B1	D
22	RCA42†	520m	2.0	§J	7.0	3.0	40	5.0	40	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	E†	Y220b	XØ
23	RCA42A†	520m	2.0	§J	7.0	3.0	60	5.0	60	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	E†	Y220b	XØ
24	RCA42B†	520m	2.0	§J	7.0	3.0	80	5.0	80	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	E†	Y220b	XØ
25	RCA42C†	520m	2.0	§J	7.0	3.0	100	5.0	100	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	E†	Y220b	XØ
26	TIP42†	520m	2.0	§J	6.0 †	3.0	40 †	5.0†	40	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	DM	B1	BØ
27▼	TIP42☑†	520m	2.0	§J	7.0	3.0	40	5.0	40	400u§	4.0Ø	3.0	15	150 #	3.0M§△	333m#	600nØ	E†	Y220b	XØ
28	TIP42A†	520m	2.0	§J	6.0 †	3.0	60 †	5.0†	60	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	DM	B1	BØ
29▼	TIP42A☑†	520m	2.0	§J	7.0	3.0	60	5.0	60	400u§	4.0Ø	3.0	15	150 #	3.0M§△	333m#	600nØ	E†	Y220b	XØ
30	TIP42B†	520m	2.0	§J	6.0 †	3.0	80 †	5.0†	80	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	DM	B1	BØ
31▼	TIP42B☑†	520m	2.0	§J	7.0	3.0	80	5.0	80	400u§	4.0Ø	3.0	15	150 #	3.0M§△	333m#	600nØ	E†	Y220b	XØ
32	TIP42C†	520m	2.0	§J	6.0 †	3.0	100 †	5.0†	100	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		400nØ	DM	B1	BØ
33▼	TIP42C☑†	520m	2.0	§J	7.0	3.0	100	5.0	100	400u§	4.0Ø	3.0	15	150 #	3.0M§△	333m#	600nØ	E†	Y220b	XØ
34	BD196	522m	65 Ø	§J	6.0	2.5	40	5.0	30	100u♦	2.0Ø	1.0	30 #		2.0M§△	333m#		†	B16g	B
35	BD198	522m	65 Ø	§J	6.0	2.5	55	5.0	45	100u♦	2.0Ø	1.0	30 #		2.0M§△	333m#		†	B16g	B
36	BD200	522m	65 Ø	§J	6.0	2.5	70	5.0	60	100u♦	2.0Ø	1.0	30 #		2.0M§△	333m#		†	B16g	B
37	MJE105	522m	65 Ø	§J	5.0	2.5	50	4.0	50	100u♦	2.0Ø	2.0	25	100					B16d	B
38	MJE105K	522m	65 Ø	§J	5.0	2.5	50	4.0	50	100u♦	2.0Ø	2.0	25	100					B23	D
39	SDT3875	552m	96		20	4.0	40	5.0	40	100u	5.0	10	20	80	10M				TO3	
40	SDT3876	552m	96		20	4.0	80	5.0	80	100u	5.0	10	20	80	10M				TO3	
41	SDT3877	552m	96		20	4.0	40	5.0	40	100u	5.0	10	40		10M				TO3	
42#	2SB617	560m	70 Ø	§J	6.0		120	5.0	100	50uØ	5.0Ø	1.0	40 *	200 #	7.0M§	500m#		DM	B33	XØ
43#	BD277	560m	70 Ø	§J	7.0	3.0	45	4.0	45	100u♦	2.0Ø	1.7	30	150 #	10m§△	285m#		E	Y220b	L
44#	BD544	560m	70 Ø	§J	8.0 †	3.0	40	5.0	40	400u§	4.0Ø	3.0	40		3.0M§△	250m	300nØ	E	B1	BØ
45#	BD544A	560m	70 Ø	§J	8.0 †	3.0	60	5.0	60	400u§	4.0Ø	3.0	40		3.0M§△	250m	300nØ	E	B1	BØ
46#	BD544B	560m	70 Ø	§J	8.0 †	3.0	80	5.0	80	400u§	4.0Ø	3.0	40		3.0M§△	250m	300nØ	E	B1	BØ
47#	BD544C	560m	70 Ø	§J	8.0 †	3.0	100	5.0	100	400u§	4.0Ø	3.0	40		3.0M§△	250m	300nØ	E	B1	BØ
48#	BD544D	560m	70 Ø	§J	8.0 †	3.0	120	5.0	120	400u§	4.0Ø	3.0	40		3.0M§△	250m	300nØ	E	B1	BØ
49#	BC460	570mØ	10	§J	2.0		50	5.0	40	100nØ	4.0Ø	500m	40	250	50M§			PE	TO39	
50#	BC461	570mØ	10	§J	2.0		75	5.0	60	100nØ	4.0Ø	500m	40	250	50M§			PE	TO39	
51	2N6594†	572m	100 Ø	§J	12 †	5.0	45 †	5.0†	40 ☑	1.0m♦Ø	3.0Ø	4.0	15	200 #	2.5M§△	375m#	1.5u☑		TO3	CØ
52▼#	BD664	598m	75 Ø	§J	10	5.0	45	5.0	45	1.0m△	2.0Ø	2.0	20	250		250m		E	Y220b	DØ
53♦#	BD706	598m	75 Ø	§J	12	5.0	45	5.0	45	1.0m†	4.0Ø	4.0	20	150		250m		E	Y220b	DØ
54♦#	BD708	598m	75 Ø	§J	12	5.0	60	5.0	60	1.0m†	4.0Ø	4.0	15	150		250m		E	Y220b	DØ
55♦#	BD710	598m	75 Ø	§J	12	5.0	80	5.0	80	1.0m†	4.0Ø	4.0	15	150		250m		E	Y220b	DØ
56♦#	BD712	598m	75 Ø	§J	12	5.0	100	5.0	100	1.0m†	4.0Ø	4.0	15	150		250m		E	Y220b	DØ
57	2N5974	600m	75 Ø	§J	5.0	2.0	60 †	5.0†	40	1.0m△♦	2.0Ø	2.5	20	120 #	2.0M§△				B16a	BØ
58	2N5975	600m	75 Ø	§J	5.0	2.0	80 †	5.0†	60	1.0m△♦	2.0Ø	2.5	20	120 #	2.0M§△				B16a	BØ
59	2N5976	600m	75 Ø	§J	5.0	2.0	100 †	5.0†	80	1.0m△♦	2.0Ø	2.5	20	120 #	2.0M§△				B16a	BØ
60	2N6489	600m§	30 Ø	§J	15 †	5.0	50 †	5.0†	50 #*	1.0m△♦	4.0Ø	5.0	20	150 #	5.0M§△	233m#			Y220b	BØ
61	2N6490	600m§	30 Ø	§J	15 †	5.0	70 †	5.0†	70 #*	1.0m△♦	4.0Ø	5.0	20	150 #	5.0M§△	233m#			Y220b	BØ
62	2N6491	600m§	30 Ø	§J	15 †	5.0	90 †	5.0†	90 #*	1.0m△♦	4.0Ø	5.0	20	150 #	5.0M§△	233m#			Y220b	BØ
63	MJE42†	600m	65 Ø	§J	6.0	2.0	40	5.0	40	700u△♦	4.0Ø	3.0	15		2.0M§△	250m	500nØ		B16h	D
64	MJE42A†	600m	65 Ø	§J	6.0	2.0	60	5.0	60	700u△♦	4.0Ø	3.0	15		2.0M§△	250m	500nØ		B16h	D
65	MJE42B†	600m	65 Ø	§J	6.0	2.0	80	5.0	80	700u△♦	4.0Ø	3.0	15		2.0M§△	250m	500nØ		B16h	D
66	MJE42C†	600m	65 Ø	§J	6.0	2.0	100	5.0	100	700u△♦	4.0Ø	3.0	15		2.0M§△	250m	500nØ		B16h	D
67	PTC166-RT	600m	75 Ø		5.0		100	5.0	80 ☑	1.0m△	2.0Ø	500m	40		2.0M§				B172	DØ
68	RCA1C08	600m	75 Ø	§J	10	4.0	75	5.0	65	1.0m*♦	4.0Ø	4.0	20	120	5.0M§△	250m		E	Y220b	DØ
69	TIP527	600m	4.0	§J	8.0 †	2.0	200 †	5.0†	200	1.0m§♦	4.0Ø	4.0	20	100 #	40M§△			PE△	TO3	CØ
70	TIP528	600m	3.5	§J	8.0 †	2.0	200 †	5.0†	200	1.0m§♦	4.0Ø	4.0	20	100 #	40M§△			PE△	TO61	A
71#	BD246†	625m	3.0 Ø	§S	10	3.0		5.0	45	400u§	4.0Ø	1.0	25 #		3.0M§△	333m	200nØ	D	B19	D
72#	BD246A†	625m	3.0	§S	10	3.0		5.0	60	400u§	4.0Ø	1.0	25 #		3.0M§△	333m	200nØ	D	B19	D
73#	BD246B†	625m	3.0	§S	10	3.0		5.0	80	400u§	4.0Ø	1.0	25 #		3.0M§△	333m	200nØ	D	B19	D
74#	BD246C†	625m	3.0	§S	10	3.0		5.0	100	400u§	4.0Ø	1.0	25 #		3.0M§△	333m	200nØ	D	B19	D
75#	2SA649	640m	80 Ø	§J	7.0	2.0	150	5.0	100	2.0mØ	5.0Ø	3.0	30 #	120 #	10M			EM	TO3	CØ
76#	2SA758	640m	80 Ø	§J	7.0	2.0	130	5.0	110	1.0mØ	5.0Ø	1.0	25	200 *	20M§	360m		D	TO3	A
77#	2SB541	640m	80 Ø	§J	12 #		110	6.0	100	100uØ	5.0Ø	1.0	40	200 #	9.0M§			ME	TO3	CØ
78#	2SB618	640m	80 Ø	§J	7.0		150	5.0	120	50uØ	5.0Ø	1.0	40 *	200 #	6.0M§	400m		DM	B33	XØ
79▼#	2SB626	640m	80 Ø	§J	8.0		120	5.0	120	1.0mØ	5.0Ø	1.0	40	200	6.0M§	250m			TO3	C
80▼#	2SB654	640m	80 Ø	§J	7.0	2.0	120	5.0	120	1.0mØ	5.0Ø	1.0	35 *	200 *				D	TO3	CØ
81#	MD34	640m	80 Ø	§J	10		40	5.0	40	400u§	4.0Ø	3.0	20		3.0M§△	400m		ME	B19	B
82#	MD34A	640m	80 Ø	§J	10		60	5.0	60	400u§	4.0Ø	3.0	20		3.0M§△	400m		ME	B19	B
83#	MD34B	640m	80 Ø	§J	10		80	5.0	80	400u§	4.0Ø	3.0	20		3.0M§△	400m		ME	B19	B
84	MJE2010	640m	80 Ø	§J	5.0	3.0	40	5.0	40	400u	4.0Ø	1.0	25	125 #	3.0M§△			△	B23	D
85	MJE2011	640m	80 Ø	§J	5.0	3.0	60	5.0	60	400u	4.0Ø	1.0	25	125 #	3.0M§△			△	B23	D
86	TIP34†	640m	3.5	§J	10 †	3.0	40 †	5.0†	40	700u△♦	4.0Ø	3.0	20	100 #	3.0M§△		400nØ	DM	B3	BØ
87	TIP34A†	640m	3.5	§J	10 †	3.0	60 †	5.0†	60	700u△♦	4.0Ø	3.0	20	100 #	3.0M§△		400nØ	DM	B3	BØ
88	TIP34B†	640m	3.5	§J	10 †	3.0	80 †	5.0†	80	700u△♦	4.0Ø	3.0	20	100 #	3.0M§△		400nØ	DM	B3	BØ
89	TIP34C†	640m	3.5	§J	10 †	3.0	100 †	5.0†	100	700u△♦	4.0Ø	3.0	20	100 #	3.0M§△		400nØ	DM	B3	BØ
90▼	TIP74†	640m	80 Ø	§S	15	5.0	50	5.0	40 §	50u§	4.0Ø	5.0	20 #	150 #	5.0M§	260m#	120n	DM†	B1	BØ
91▼	TIP74A†	640m	80 Ø	§S	15	5.0	70	5.0	60 §	50u§	4.0Ø	5.0	20 #	150 #	5.0M§	260m#	120n	DM†	B1	BØ
92▼	TIP74B†	640m	80 Ø	§S	15	5.0	90	5.0	80 §	50u§	4.0Ø	5.0	20 #	150 #	5.0M§	260m#	120n	DM†	B1	BØ
93▼	TIP74C†	640m	80 Ø	§S	15	5.0	110	5.0	100 §	50u§	4.0Ø	5.0	20 #	150 #	5.0M§	260m#	120n	DM†	B1	BØ
94	2N5741	650m§	65 Ø	§J	20	4.0	60 †	5.0†	60	500u△♦	5.0Ø	10	20	80	10M§△	250m			TO3	CØ
95	2N5742	650m§	65 Ø	§J	20	4.0	100 †	5.0†	100	500u△♦	5.0Ø	10	20	80	10M§△	250m			TO3	CØ
96	MJ2901	657m	115 Ø	§J	15	7.0	50	7.0	40	5.0m	4.0Ø	8.0	15	60 #	1.0M§△			△	TO3	CØ
97	2N5871†	658m	115 Ø	§J	7.0	2.0	60 †	5.0†	60	250u♦	4.0Ø	2.5	20	100	4.0M§△	250m	700n☑		TO3	CØ
98	2N5872†	658m	115 Ø	§J	7.0	2.0	80 †	5.0†	80	250u♦	4.0Ø	2.5	20	100	4.0M§△	250m	700n☑		TO3	CØ
99	2N5853	660m§	66 Ø	§J	10	3.0	100	6.0	80	500u§	5.0Ø	5.0	30	90	15M§△	150m			TO61	A
100	2N5854	660m§	66 Ø	§J	10	3.0	100	6.0	80	500u§	5.0Ø	5.0	30	90	20M§△	150m			TO61	A
101	2N5007	666m#	100 Ø	§J	10	3.0	100	5.5	80	1.0m#	5.0Ø	5.0	30	90 #	30M§△				T16	A
102	2N5009	666m#	100 Ø	§J	10	3.0	100	5.5	80	1.0m#	5.0Ø	5.0	70	200 #	40M§△				T16	A
103	2N5290	666m#	100 Ø	§J	10	3.0	100	5.5	100	1.0m#	5.0Ø	5.0	30	90 #	30M§△				T16	A
104	2N5291	666m#	100 Ø	§J	10	3.0	100	5.5	100	1.0m#	5.0Ø	5.0	70	200 #	40M§△				T16	A
105#	2SA566	666m	10 Ø	§J	700m		100	4.0	100		4.0Ø	50m	35	200	100M§	3.0		PE	TO66	CØ
106♦#	2SA744	666m	70 Ø	§J	8.0	3.0	80	6.0	80	1.0m	4.0Ø	3.0	30		15M§	400m		EM	TO3	CØ
107♦#	2SA745	666m	70 Ø	§J	8.0	3.0	100	6.0	100	1.0m	4.0Ø	3.0	30		15M§	400m		EM	TO3	CØ
108▼#	2SA745A	666m	70 Ø	§J	8.0	3.0	120	6.0	120	1.0m	4.0Ø	3.0	30		15M§	500m		EM	TO3	CØ
109#	2SA837	666m	50 ♦	§J	4.0		80	5.0	80	1.0m	4.0Ø	1.0	40	200	10M§			EM	TO3	C
110#	BDX18	666m	117 Ø	§J	15 †	7.0	100 †	7.0	60	5.0m#♦	4.0Ø	4.0	20	70 #	800k§△			H△	TO3	CØ

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEM XP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	IR2701†	1.0	125 Ø	§J	5.0	2.0	450	5.0	350	1.0m	5.0Ø	4.0	5.0		5.0M§△	400m	1.2uⵁ	D	TO3	CØ
2	SDT3601	1.0	175		60	10	40	5.0	40	10u	10	40	10	40	25M			PL		
3	SDT3602	1.0	175		60	10	60	5.0	60	10u	10	40	10	40	25M			PL		
4	SDT3603	1.0	175		60	10	80	5.0	80	10u	10	40	10	40	25M			PL		
5	SDT3604	1.0	175		60	10	100	5.0	100	10u	10	40	10	40	25M			PL		
6	ST10007†	1 0 #	150 #$	§J	30		80	8 0	80 *	100uØ	10Ø	10	30	120 #	20M§△		500nØ	PL	TO63	
7	ST10008†	1.0 #	150 #$	§J	30		100	8 0	100 *	100uØ	10Ø	10	30	120 #	20M§△		500nØ	PL	TO63	
8	ST10009†	1 0 #	150 #$	§J	30		120	8.0	120 *	100uØ	10Ø	10	30	120 #	20M§△		500nØ	PL	TO63	
9	ST72018	1.0 $	100 Ø		20		40	7.0	40	.01mØ	5.0Ø	10	20	200	10M§△			PE	TO63	
10	ST72019	1.0 $	100 Ø		20		60	7.0	60	01mØ	5.0Ø	10	20	200	10M§△			PE	TO63	
11	ST72020	1.0 $	100 Ø		20		80	7 0	80	.01mØ	5.0Ø	10	20	200	10M§△			PE	TO63	
12	ST72021	1.0 $	100 Ø		20		100	7.0	100	.01mØ	5.0Ø	10	20	200	10M§△			PE	TO63	
13	TIP36†	1.0	3.5	§J	25 †	5 0	40 †	5.0†	40	1.0m△♦	4.0Ø	15	10	50 #	3.0M§△		1 1uØ	DM	B19	BØ
14	TIP36A†	1.0	3.5	§J	25 †	5.0	60 †	5.0†	60	1.0m△♦	4.0Ø	15	10	50 #	3.0M§△		1.1uØ	DM	B19	BØ
15	TIP36B†	1.0	3.5	§J	25 †	5.0	80 †	5.0†	80	1.0m△♦	4.0Ø	15	10	50 #	3.0M§△		1.1uØ	DM	B19	BØ
16	TIP36C†	1.0	3 5	§J	25 †	5.0	100 †	5.0†	100	1.0m△♦	4.0Ø	15	10	50 #	3.0M§△		1.1uØ	DM	B19	BØ
17	2N4398†	1.1	200 Ø	§J	30	7.5	40 †	5.0†	40	1.0m♦	4.0Ø	15	15	60 #	4.0M§△		400nⵁ		F4f	CØ
18	2N4399†	1 1	200 Ø	§J	30	7.5	60 †	5.0†	60	1.0m♦	4.0Ø	15	15	60 #	4.0M§△		400nⵁ		F4f	CØ
19	JAN2N4399†	1.1	200 Ø	§A	30	7.5	60	5.0	60	1.0m	2.0Ø	15	15	60 #	4.0M§△		400nØⵁ		TO3	CØ
20	2N5745†	1.1	200 Ø	§J	20	7.5	80 †	5.0†	80	1.0m♦	2.0Ø	10	15	60 #	2.0M§△		1.0uⵁ		F4f	CØ
21	JAN2N5745†	1.1	200 Ø	§A	20	7.5	80	5.0	80	1.0m	2.0Ø	10	15	60 #	2.0M§△		1.0uØⵁ		TO3	CØ
22	2N5883†	1.1	200 Ø	§J	25	7.5	60 †	5.0†	60	1.0m♦	4.0Ø	10	20	100	4.0M§△	66m	700nⵁ		TO3	CØ
23	2N5884†	1.1	200 Ø	§J	25	7.5	80 †	5.0†	80	1.0m♦	4.0Ø	10	20	100	4.0M§△	66m	700nⵁ		TO3	CØ
24	2N6029	1.1	200 Ø	§J	16	5.0	100 †	7.0†	100	2.0m♦	2.0Ø	8.0	25	100 #					F11a	CØ
25	2N6030	1.1	200 Ø	§J	16	5.0	120 †	7.0†	120	2.0m♦	2.0Ø	8.0	20	80 #					F11a	CØ
26	2N6031	1 1	200 Ø	§J	16	5.0	140 †	7.0†	140	2.0m♦	2.0Ø	8.0	15	60 #					F11a	CØ
27	2N6329	1.1 $	114 Ø	§J	30	10	60 †	5.0†	60	1.0m△♦	4.0Ø	30	6.0	30 #	3.0M§△				TO3	CØ
28	2N6330	1.1 $	114 Ø	§J	30	10	80 †	5.0†	80	1.0m△♦	4.0Ø	30	6.0	30 #	3.0M§△				TO3	CØ
29	2N6331	1.1 $	114 Ø	§J	30	10	100 †	5.0†	100	1.0m△♦	4.0Ø	30	6.0	30 #	3.0M§△				TO3	CØ
30	2N6436	1.1	200 Ø	§J	25	10	100 †	6.0†	80	10u♦	2.0Ø	10	20	80 #	40M§△		300nⵁ		TO3	CØ
31	2N6437	1 1	200 Ø	§J	25	10	120 †	6.0†	100	10u♦	2.0Ø	10	20	80 #	40M§△		300nⵁ		TO3	CØ
32	JAN2N6437†	1 1	200 Ø	§J	25	10	120	6.0	100	10u	2.0Ø	10	25	100 #	40M§△	72m#	500nØⵁ		TO3	CØ
33	2N6438	1 1	200 Ø	§J	25	10	140 †	6.0†	120	10u♦	2.0Ø	10	20	80 #	40M§△		300nⵁ		TO3	CØ
34	JAN2N6438†	1.1	200 Ø	§J	25	10	140	6.0	100	10u	2.0Ø	10	25	100 #	40M§△	72m#	500nØⵁ		TO3	CØ
35	BD316	1 1	200 Ø	§J	16	5.0	80	7.0	80	1.0m♦	4.0Ø	8.0	25 #		1.0M§△	125m#			TO3	CØ
36	BD318	1.1	200 Ø	§J	16	5.0	100	7 0	100	1.0m♦	4.0Ø	5.0	25 #		1.0M§△	125m#			TO3	CØ
37	IR4502	1.1	200 Ø	§J	30	7.5	100	4.0	90	1.0m	2.0Ø	7.5	25	100 #	2.0M§△				F4d	CØ
38	MJ4502	1.1	200 Ø	§J	30	7.5	100	4 0	90	1.0m	2.0Ø	7.5	25	100 #	2.0M§△				F4d	CØ
39▼	MJ15002	1.1	200 Ø	§J	15	5.0	140	5 0	140 ⵁ	100u#	2.0Ø	4.0	25	150	2.0M§△	250m			F49a	CØ
40	PTC172-RT	1.1	200 Ø		16		100	7.0	100 ⵁ	2.0m	2.0Ø	8.0	25	100	1.0M§				TO3	CØ
41	2N5967†	1.2 $	125 $Ø	§J	30	5.0	100 †	10†	100	500u♦	10Ø	10	25	120 #	10M§△	80m#	1.1uØⵁ		TO63	AØ
42	JAN2N5967†	1.2 #	187 Ø	§J	30		100	10	100	100u§	10Ø	15	25	100 #	10M§△	80m#	1.1uØⵁ		TO63	AØ
43	2N5969†	1.2 $	125 $Ø	§J	30	5.0	100 †	10†	100	500u♦	10Ø	10	25	120 #	10M§△	80m#	1.1uØⵁ		TO63	A
44	JAN2N5969†	1.2 #	187 Ø	§J	30		100	10	100	100u§	10Ø	15	25	100 #	10M§△	80m#	1.1uØⵁ		TO63	A
45▼#	2SA907	1.2	150 Ø	§J	15	5.0	100	6.0	100	1.0m	4.0Ø	5.0	30	180	10M§			E	TO3	CØ
46▼#	2SA908	1.2	150 Ø	§J	15	5.0	150	6.0	150	1.0m	4.0Ø	5.0	30	180	10M§			E	TO3	CØ
47▼#	2SA909	1.2	150 Ø	§J	15	5.0	200	6.0	200	1.0m	4.0Ø	5.0	30	180	10M§			E	TO3	CØ
48▼#	2SA971	1.2	150 Ø	§J	15		150	6.0	150	100u	4.0Ø	5.0	30	180	10M§			E	TO3	CØ
49	SDT3901	1.2	220		60	10	40	5 0	40	10u	10	40	10	40	25M				TO114	
50	SDT3902	1.2	220		60	10	60	5.0	60	10u	10	40	10	40	25M				TO114	
51	SDT3903	1.2	220		60	10	80	5.0	80	10u	10	40	10	40	25M				TO114	
52	SDT3904	1.2	220		60	10	80	5.0	80	10u	10	40	10	40	25M				TO114	
53	2N6377†	1.4	250 Ø	§J	50	20	100 †	6.0†	80	50u△♦	4 0Ø	20	30	120 #	25M§△	50m#	350nⵁ		F11a	CØ
54	2N6378†	1.4	250 Ø	§J	50	20	120 †	6.0†	100	50u△♦	4.0Ø	20	30	120 #	25M§△	50m#	350nⵁ		F11a	CØ
55	JAN2N6378†	1.4	250 Ø	§J	50 †	20	120 †	6.0†	100	10u♦	4.0Ø	20	30	120 #	30M§△	60m#	500nØⵁ		TO3	CØ
56	2N6379†	1.4	250 Ø	§J	50	20	140 †	6.0†	120	50u△♦	4.0Ø	20	30	120 #	25M§△	50m#	350nⵁ		F11a	CØ
57	JAN2N6379†	1.4	250 Ø	§J	50 †	20	140 †	6 0†	120	10u♦	4.0Ø	20	30	120 #	30M§△	60m#	500nØⵁ		TO3	CØ
58	2N6380†	1.4	250 Ø	§J	50	20	100 †	6 0†	80	50u△♦	4.0Ø	20	30	120 #	25M§△	60m#	350nⵁ		TO63	AØ
59	2N6381†	1.4	250 Ø	§J	50	20	120 †	6 0†	100	50u△♦	4.0Ø	20	30	120 #	25M§△	60m#	350nⵁ		TO63	AØ
60	2N6382†	1.4	250 Ø	§J	50	20	140 †	6 0†	120	50u△♦	4.0Ø	20	30	120 #	25M§△	60m#	350nⵁ		TO63	AØ
61▼	MJ15004	1.4	250 Ø	§J	20	5.0	140	5.0	140 ⵁ	100u#	2.0Ø	5.0	25	150	2.0M§△	200m			F49a	CØ
62	2N6061†	1.5 $	150 $Ø	§J	50	10	100 †	10†	100	500u♦	10Ø	20	25	120 #	10M§△	55m#	1.5uØⵁ		TO63	AØ
63♦	JAN2N6061†	1.5 #	250 Ø#	§J	50		100	10	100	200u§	10Ø	30	20	100 #	10M§△		1.5uØⵁ		TO63	AØ
64	2N6063†	1.5 $	150 $Ø	§J	50		100 †	10†	100	500u♦	10Ø	20	25	120 #	10M§△	55m#	1.5uØⵁ		TO63	A
65♦	JAN2N6063†	1 5 #	250 Ø#	§J	50		100	10	100	200u§	10Ø	30	20	100 #	10M§△		1.5uØⵁ		TO63	A
66#	2SB530	1 5	80 Ø	§J	8.0		110	5 0	100	100uØ	5.0Ø	1.0	40	240				EM	TO3	
67#	2SB600	1.6	200 Ø	§J	15	2.0	200	5.0	200	100uØ	5.0Ø	2.0	40	200 #	4.0M§	300m		DM	TO3	CØ
68	2N5683	1.7	300 Ø	§J	50	15	60	5.0	60	2.0m	2.0Ø	25	15	60 #	2.0M§△				F4d	CØ
69	JAN2N5683†	1.7	300 Ø	§S	50	15	60	5.0	60	2.0m	2.0Ø	25	15	60 #	2.0M§△		1.5uØⵁ		F6c	CØ
70	2N5684	1.7	300 Ø	§J	50	15	80	5.0	80	2.0m	2.0Ø	25	15	60 #	2.0M§△				F4d	CØ
71	JAN2N5684†	1 7	300 Ø	§S	50	15	80	5.0	80	2.0m	2.0Ø	25	15	60 #	2.0M§△		1.5uØⵁ		F6c	CØ
72	ET1550	2 0	150 Ø	#J	7.0	3.0	45		40 §	1.0mØ	2 0Ø	3 0	40	250		400m			TO3	CØ
73	ET1551	2.0	150 Ø	#J	7 0	3.0	60		50 §	1.0mØ	2.0Ø	3.0	40	250		400m			TO3	CØ
74	PP7535	2.0	140 Ø	§	20	10	150	7.0	90		5.0Ø	12	20	100	60M§△	50m		PE	TO3	CØ
75	PP7536	2.0	140 Ø	§	20	10	120	7.0	75		5.0Ø	10	20	100	60M§△	75m		PE	TO3	CØ
76#	2SA739	2.5	50 Ø	§J	3.0		400	5.0	400	100uØ	5 0Ø	500m	20	300				DM	TO3	C
77#	2SB531	2.5	50 Ø	§J	6.0		90	5.0	80	100uØ	5.0Ø	1.0	40	240				EM	TO3	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C O A D D E
1#	2SD339		100 Ø	♦J	10		110	8.0	110 §	100uØ	2.0Ø	4.0	50 Ø		3.0M§△				TO3	CØ
2#	2SD340		120 Ø	♦J	12		140	8.0	140 §	100uØ	2.0Ø	5.0	50 Ø		3.0M§△				TO3	CØ
3#	2SD348		50 Ø	§S	12 #		1.5k	6.0	400	100uØ	5.0	5.0	4.5					D	TO3	CØ
4#	2SD353		60 Ø	§S	6.0 #		150	6.0	150	10uØ	5.0	100m	40		8.0M§			D	TO3	CØ
5#	2SD368		50 Ø	§S	10 #		1.3k	6.0	400	5.0mØ	5.0	4.0	5.0					PL	TO3	CØ
6#	2SD369		100 Ø	§J	10		80	10	60	1.0m	5.0Ø	1.0	30	300	2.0M§		3.0uØ	D	TO3	CØ
7#	2SD386		25 Ø	§S	10 #		200	6.0	120	1.0mØ	2.0	500m		320	8.0M§			DM	Y220b	D
8#	2SD386A		25 Ø	§S	2.0		200	6.0	150	1.0mØ	2.0	500m		320	8.0M§			DM	Y220b	D
9#	2SD387		25 Ø	§S	10 #		200	6.0	120	1.0mØ	2.0	500m		320	8.0M§			DM	Y220a	X
10#	2SD387A		25 Ø	§S	2.0		200	6.0	150	1.0mØ	2.0	500m		320	8.0M§			DM	Y220a	X
11#	2SD416		50 Ø	§S	13 #		1.5k	6.0	400	1.0mØ	5.0	5.5	3.5					D	TO3	CØ
12#	2SD424		150 Ø	§J	15		160	5.0	160	100uØ	5.0Ø	2.0	40	140				DM	TO3	CØ
13#	2SD425		100 Ø	§J	12		140	5.0	140	100uØ	5.0Ø	2.0	40	140	6.0M§			DM	TO3	CØ
14#	2SD426		100	§J	12	12 Ø	120	5.0	120	100uØ	5.0Ø	2.0	40	140	6.0M§			DM	TO3	
15#	2SD427		80 Ø	§J	8.0		120	5.0	120	100uØ	5.0Ø	1.0	40	140	7.0M§			DM	TO3	CØ
16#	2SD428		60 Ø	§J	7.0		100	5.0	100	100uØ	5.0Ø	1.0	40	140	7.0M§			DM	TO3	CØ
17#	2SD437W		80 Ø	§S	20 #		500	6.0	350	100uØ	5.0	2.0		200	2.5M§			D	TO3	CØ
18#	2SD526		30	§J	4.0	3.0	80	5.0	80	30u	5.0Ø	500m	40	240	10M§			DM	Y220b	DØ
19#	2SD531		43 Ø	♦J	5.0	1.0	100 §	8.0§	60 ☑	2.0uØ	2.0Ø	100mØ	45	250 *	9.0M§	.50 #		DM	Y220	D
20#	2SD544		43 Ø	♦J	5.0	1.0	100 §	8.0§	60 ☑	2.0uØ	2.0Ø	100mØ	45	250 *	9.0M§	.50 #		DM	Y220	T
21#	2SD552		150 Ø	§J	15	3.0	220	5.0	180	500uØ	5.0Ø	5.0	25	80	4.0M§		1.0uØ	DM	TO3	CØ
22#	2SD575		50 Ø	§S	2.5		1.4k	5.0	600	50uØ	5.0	2.0	2.5					D	TO3	CØ
23#	2SD575L		50 Ø	§S	2.5		1.2k	5.0	600	50uØ	5.0	2.0	2.0					D	TO3	CØ
24#	2SD620		1.0 Ø	§J	1.5	50m	80	5.0	60	1.0 Ø	2.0Ø	1.0m	20 Ø		70M§	1.0		PE	B7b	B
25#	2SD640		100	§J	7.0	2.0	600	5.0	400	100uØ	5.0Ø	1.0	25	140	3.0M§		1.0uØ	DM△	TO3	
26#	2SD641		150	§J	15	5.0	600	5.0	400	500uØ	5.0Ø	5.0	20	140	4.0M§		500nØ	DM△	TO3	
27#	2SD642		300	§J	40	15	600	5.0	400	1.0	5.0Ø	30	10				1.2uØ	DM△	F44	CØ
28	40850		35 Ø	§J	2.0	1.0	450	6.0	300 ☑		10Ø	750m	25			1.0		DM	TO66	CØ
29	40851		45 Ø	§J	7.0	4.0	450	9.0	350 ☑		1.0Ø	1.2	12			750m		EM	TO66	CØ
30	40852		100 Ø	§J	7.0	4.0	450	9.0	350 ☑		1.0Ø	1.2	12			750m		EM	TO3	CØ
31	40853		100 Ø	§J	10	5.0	450	6.0	300 ☑		4.0Ø	5.0	10			375m		DM	TO3	CØ
32	40854		175 Ø	§J	15	7.0	450	6.0	300 ☑		4.0Ø	10	8.0			187m		EM	TO3	CØ
33#	BC429		1.0		1.0		45		45			500m	35		100M§△				B21a	B
34#	BC430		1.0		1.0		45		45			150m	50	160	100M§△				B21a	B
35#	BD111A		62 §	§	10		60	5.0	60	1.0m	5.0Ø	500m	40	100 Ø	100M§		500nØ	PE△	TO3	
36#	BD533		50 Ø	§J	4.0	1.0	45	5.0	45		2.0	2.0	25		3.0M§△			E	Y220a	
37#	BD535		50 Ø	§J	4.0	1.0	60	5.0	60		2.0	2.0	25		3.0M§△			E	Y220a	
38#	BD537		50 Ø	§J	4.0	1.0	80	5.0	80		2.0	2.0	25		3.0M§△			E	Y220a	
39#	BF456		1.2		100m		160		160			30mØ	40		100M§△				B21a	B
40#	BFT51		2.8		400m		30	3.0				75m	50		3.0G§				TO39	
41#	BLW75		60		12 #		60		30						800M§			PE		
42#	BLX37		4.0 §	§J	400m		30	3.0	16		5.0Ø	75m	50		3.0G§△				T137	
43#	BLX38		7.0		800m		30	3.0	16		5.0Ø	150m	50		3.0G§△				T137	
44#	BLX91A		4.0		800m		65		33						1.2G§					
45#	BLX92A		6.0		2.0		65		33						750M§					
46#	BLX93A		12		3.0		65		33						800M§					
47#	BLY47†		40 Ø	§J	3.0 †	2.0	100 †	8.0	75	50uØ	10Ø	1.0	30	100 #	15M§△		1.0uØ☑	DM	TO3	CØ
48#	BLY47A†		40 Ø	§J	3.0 †	2.0	100 †	8.0	75	50uØ	10Ø	1.0	30	100 #	15M§△		1.0uØ☑	DM	TO66	CØ
49#	BLY48†		40 Ø	§J	3.0 †	2.0	100 †	8.0	75	50uØ	10Ø	1.0	60	200 #	15M§△		1.0uØ☑	DM	TO3	CØ
50#	BLY48A†		40 Ø	§J	3.0 †	2.0	100 †	8.0	75	50uØ	10Ø	1.0	60	200 #	15M§△		1.0uØ☑	DM	TO66	CØ
51#	BLY49†		40 Ø	§J	3.0 †	2.0	250 †	8.0	150	50uØ	10Ø	1.0	30	100 #	15M§△		1.0uØ☑	DM	TO3	CØ
52#	BLY49A†		40 Ø	§J	3.0 †	2.0	250 †	8.0	150	50uØ	10Ø	1.0	30	100 #	15M§△		1.0uØ☑	DM	TO66	CØ
53#	BLY50†		40 Ø	§J	3.0 †	2.0	250 †	8.0	150	50uØ	10Ø	1.0	60	200 #	15M§△		1.0uØ☑	DM	TO3	CØ
54#	BLY50A†		40 Ø	§J	3.0 †	2.0	250 †	8.0	150	50uØ	10Ø	1.0	60	200 #	15M§△		1.0uØ☑	DM	TO66	CØ
55#	BLY61		5.0 Ø	§A	500m†	100m	36 †	4.0	18	100u	5.0	250m	10	120	400k			PE	TO39	AØ
56#	BLY62		11 Ø	§A	2.0 †	500m	36 †	4.0	18	100u	5.0	250m	10	120	400k			PE	TO117	GE
57#	BLY63		17 Ø	§A	5.0 †	2.0	36 †	4.0	18	100u	5.0	250m	10	120	400k			PE	TO117	GE
58#	BSS11†		1.2 Ø	§J							1.0Ø	10m		120 #	500M§△			PE	TO18	AØ
59#	BSS12†		1.2 Ø	§J							35Ø	10m		120 #	400M§△				TO18	AØ
60	BT3999		5.0	§J	5.0	1.0	100	6.0	50	1.0u	2.0Ø	1.0n	40	240					C16	
61#	BU100A		62 §	§	10		150	5.0	150 Ø	1.0m	5.0Ø	2.0	40	90 Ø	100M§		500nØ	PE△	TO3	
62#	BU128		62 §	§	10		300	5.0	200	1.0m	5.0Ø	1.0	40	120 Ø	80M§		500nØ	PE△	TO3	
63#	BU225		10	#	2.0		2.2k		800								750n#	PL	TO3	CØ
64#	BU326S		60 §	§J	6.0	3.0 #		7.0	800 Ø	1.0m§	5.0Ø	4.0	3.5		20M§		600n#	PE△	TO3	CØ
65#	BU409		60 Ø	§J	5.0	1.0	250	6.0	150		5.0	500m	15		10M§			PE	Y220	
66#	BUY24		15	§J	5.0	2.0	120	6.0	60	10u	2.0	2.0	40	75 Ø	100M§		350nØ	PE	TO3	
67#	BUY47		7.0	§	10		150	6.0	120	1.0m	5.0Ø	500m	40	150 Ø	90M§		500nØ	PE△	TO39	
68#	BUY48		7.0	§	10		200	6.0	170	1.0m	5.0Ø	500m	40	150 Ø	90M§		500nØ	PE△	TO39	
69	HEP75-RT		1.0 ▼%	§J	400m§		40 §	3.5§	20 §	1.0u§	25		15		250M§				TO39	
70	HEP240-RT		10 %	§J	500m§		300 §	6.0§	300 §	100u§	300		115 Ø		10M§				TO66	CØ
71	HEP241-RT		40 %	§J	5.0 §		160 §	6.0§	120 §	500u§	160		60 Ø		20M§				TO66	CØ
72	HEP243-RT		6.0 %	§J	3.0 §		60 §	6.0§	40 §	500u§	40		60 Ø		8.0M§				TO5	A
73	HEP244-RT		25 %	§J	500m§		300 §	3.0§	300 §	100u§	300		80 Ø		15M§				B16b	B
74	HEP245-RT		30 %	§J	3.0 §		60 §	5.0§	40 §	500u§	40		60 Ø		8.0M§				B16b	B
75	HEP247-RT		150 %	§J	10 §		70 §	7.0§	50 §	1.5m§	40		60 Ø		6.0M§				TO3	CØ
76	HEP701-RT		40 %	§J	3.0 §		40 §	5.0§	40 §	100u§	40		100 Ø		8.0M§				B16b	B
77	HEP703-RT		25 %	§J	5.0 §		70 §	5.0§	60 §	100u§	60		85 Ø		6.0M§				TO66	CØ
78	HEP704-RT		115 %	§J	15 §		100 §	7.0§	60 §	500n§	100		90 Ø		1.0M§				TO3	CØ
79	HEP706-RT		4.0 %	§J	100m§		350 §	6.0§	325 §	1.0u§	150		25 Ø		10M§				TO5	A
80	HEP707-RT		125 %	▼J	10 §		400 §	5.0§	325 §	1.0m§	400		65 Ø		2.5M§				TO3	CØ
81	HEP712-RT		1.0 %	§J	50m§		180 §	5.0§	200 §	5.0u§	100		35 Ø		150M§				TO5	A
82	HEP713-RT		1.0 %	§J	200m§		100 §	5.0§	100 §	1.0u§	50		35 Ø		150M§				TO5	A
83	HEP714-RT		1.0 %	§J	1.0 §		150 §	5.0§	150 §	100n§	125		120 Ø		100M§				B18a	A
84	HEP740-RT		100 %	▼J	3.5 §		700 §	5.0§	700 §	250n§	400		10		2.5M§				TO3	CØ
85	HEPS0001-RT		310m%	†J	600m§		140 §	5.0§	120 §	1.0u§	75		200 Ø		600M§				TO92	A
86	HEPS3001-RT		5.0 ▼%	§J	1.0 §		65 §	4.0§	40 §	1.0m§	65		10		500M§				TO39	
87	HEPS3002-RT		6.0 %	§J	5.0 §		80 §	5.0§	80 §	100u§			80 Ø		30M§				TO39	
88	HEPS3005-RT		2.0 ▼%	§J	1.0 §		36 §	4.0§	30 Ø§	1.0m§	15		10		175M§				T81a	R
89	HEPS3006-RT		10 ▼%	§J	3.0 §		36 §	4.0§	30 Ø§	1.0m§	15		10		175M§				T81a	R
90	HEPS3007-RT		25 ▼%	§J	5.0 §		36 §	4.0§	30 Ø§	1.0m§	15		10		175M§				T75e	R
91	HEPS3008-RT		1.5 ▼%	§J	400m§		55 §	4.0§	30 Ø§	1.0u§	25		10		400M§				TO39	
92	HEPS3020-RT		5.0 %	†J	1.0 §		60 §	4.0§	60 §	100nØ§			120 Ø		150M§				B18	A
93	HEPS3021-RT		5.0 %	†J	1.0 §		250 §	8.0§	250 §	200nØ§			120 Ø		100M§				B18	A
94	HEPS3022-RT		5.0 %	†J	1.0 §		250 §	8.0§	250 §	200nØ§			225 Ø		100M§				B18	A
95	HEPS3023-RT		8.0 %	†J	1.5 §		35 §	4.0§	35 §	100nØ§			110 Ø		50M§				B18	A
96	HEPS3024-RT		8.0 %	†J	1.5 §		35 §	4.0§	35 §	100nØ§			200 Ø		50M§				B18	A
97	HEPS3025-RT		8.0 %	†J	1.5 §		35 §	4.0§	35 §	100nØ§			320 Ø		50M§				B18	A
98	HEPS3026-RT		8.0 %	†J	1.5 §		35 §	4.0§	35 §	100nØ§			550 Ø		50M§				B18	A
99	HEPS5000-RT		40 %	§J	4.0 §		80 §	5.0§	80 §	100n§			60 Ø		2.0M§				B5a	B
100	HEPS5001-RT		90 %	§J	10 §		70 §	5.0§	60 §	1.0m§			50 Ø		2.0M§				B5b	B
101	HEPS5003-RT		40 %	§J	4.0 §		60 §	4.0§	60 §	100n§			60 Ø		2.0M§				B5a	B
102	HEPS5004-RT		90 %	§J	10 §		90 §	4.0§	90 §	100u§			70 Ø		2.0M§				B5b	B
103	HEPS7000-RT		200 %	§J	30 §		100 §	4.0§	100 §	1.0m§			75 Ø		2.0M§				TO3	CØ
104	PTC104-RT		20 Ø		3.0		350	6.0	325	500uØ	10Ø	50m△	100	140 Ø	30M§				TO66	
105	PTC110-RT		12 Ø		3.0		70	7.0	70	10u	1.0	220m	40	120	50M§△				B17a	DØ
106	PTC112-RT		25 Ø		4.0		90	4.0	80	1.0m	4.0Ø	50m	30	80 Ø	6.0M§				TO66	
107	PTC116-RT		150 Ø		10		70	4.0	60	1.5m	2.0Ø	1.0	50	60 Ø	2.0M§△				TO3	CØ
108	PTC117-RT		1.0 Ø		100m		300	7.0	300	100nØ	20Ø	10m	30	50 Ø	50M§△				TO5	A
109	PTC118-RT		125 Ø		10		320	4.0	300	5.0m	10Ø	500m	20	65 Ø	1.0M§△				TO3	CØ
110	PTC119-RT		115 Ø		15		80	5.0	60		10Ø	4.0	20		700k#				TO3	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AE XM P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1#	2SC2055	4.5m	500m	†J	300m		18	4.0	9.0	30uØ	7.0Ø	50m	10	180 #	1.7G§			PE	TO92	D
2	TRS140MP	4.5m	1.0	§	400m		140	6.0	140 §	3.0uØ	4.0Ø	50m	30	#	50M§△				TO5	
3	TRS160MP	4.5m	1.0	§	400m		160	6.0	160 §	3.0uØ	4.0Ø	50m	30	#	50M§△				TO5	
4	TRS180MP	4.5m	1.0	§	400m		180	6.0	180 §	3.0uØ	4.0Ø	50m	30	#	50M§△				TO5	
5	TRS200MP	4.5m	1.0	§	400m		200	6.0	200 §	2.0uØ	4.0Ø	50m	20	#	50M§△				TO5	
6	TRS225MP	4.5m	1.0	§	400m		225	6.0	225 §	3.0uØ	4.0Ø	50m	22	#	50M§△				TO5	
7	TRS250MP	4.5m	1.0	§	400m		250	6.0	250 §	2.0uØ	4.0Ø	50m	20	#	50M§△				TO5	
8	TRS275MP	4.5m	1.0	§	400m		275	6.0	275 §	3.0uØ	4.0Ø	50m	22	#	50M§△				TO5	
9	TRS301MP	4.5m	1.0	§	400m		300	6.0	300 §	2.0uØ	4.0Ø	50m	30	#	50M§△				TO5	
10	TRS325MP	4.5m	1.0	§	400m		325	6.0	325 §	3.0mØ	4.0Ø	50m	22	#	50M§△				TO5	
11	TRS350MP	4.5m	1.0	§	400m		350	6.0	350 §	2.0mØ	4.0Ø	50m	20	#	50M§△				TO5	
12	TRS375MP	4.5m	1.0	§	400m		375	6.0	375 §	3.0mØ	4.0Ø	50m	22	#	50M§△				TO5	
13	TRS401MP	4.5m	1.0	§	400m		400	6.0	400 §	2.0mØ	4.0Ø	50m	30	#	50M§△				TO5	
14	TRS425MP	4.5m	1.0	§	400m		425	6.0	425 §	3.0mØ	4.0Ø	50m	22	#	50M§△				TO5	
15	TRS451MP	4.5m	1.0	§	400m		450	6.0	450 §	2.0mØ	4.0Ø	50m	30	#	50M§△				TO5	
16	TRS475MP	4.5m	1.0	§	400m		475	6.0	475 §	2.0mØ	4.0Ø	50m	22	#	50M§△				TO5	
17	TRS501MP	4.5m	1.0	§	400m		500	6.0	500 §	10mØ	4.0Ø	25m	30	#	50M§△				TO5	
18	TRS525MP	4.5m	1.0	§	400m		525	6.0	525 §	10mØ	4.0Ø	25m	22	#	50M§△				TO5	
19	TRS550MP	4.5m	1.0	§	400m		550	6.0	550 §	10mØ	4.0Ø	25m	20	#	50M§△				TO5	
20	TRS575MP	4.5m	1.0	§	400m		575	6.0	575 §	10mØ	4.0Ø	25m	22	#	50M§△				TO5	
21	TRS601MP	4.5m	1.0	§	400m		600	6.0	600 §	10uØ	4.0Ø	25m	30	#	50M§△				TO5	
22#	BSX45	5.0m	5.0 Ø	§J	1.0	200m		7.0	40	30n§Ø					50M§			PE	TO39	AØ
23	BSX45☑†	5.0m	5.0 Ø	§J	1.0	100m		7.0	40	10n§♦	1.0Ø	150m	40	120	60M§△	700m▼	250nØ☑	ANØ	TO39	A
24#	BSX46	5.0m	5.0 Ø	§J	1.0	200m		7.0	60	30n§Ø					50M§		15n	PE△	TO39	AØ
25	BSX46☑†	5.0m	5.0 Ø	§J	1.0	100m		7.0	60	10n§♦	1.0Ø	150m	40	120	60M§△	700m▼	250nØ☑	ANØ	TO39	A
26#	BSX47	5.0m	5.0 Ø	§J	1.0	200m		7.0	80	30n§Ø					50M§		15n	PE△	TO39	AØ
27#	2SC2056	5.3m	800m	§J	600m		18	4.0	9.0	100uØ	7.0Ø	100m	10	180 #	800M§			PE	TO39	A
28#	2SC2131	5.3m	800mØ	§J	600m		40	4.0	18	100uØ	10Ø	100m	10	180 #	1.7G§			PE	TO39	A
29#	2SC776	5.5m	1 0	§J	1.0		75	4.0	75 §	10uØ	10Ø	100mØ	5.0	#	200M§			PE	TO39	AØ
30#	2SC816	5.5m	1.0	§J	1.0		60	4.0	30	10uØ	6.0Ø	100m	55	#	140M§			PE	TO5	AØ
31#	2SC2053	5.5m	600m	†J	300m		40	4.0	17	20uØ	10Ø	10m	10	180 #	500M§			PE	TO92	D
32#	ZT2102	5.5m	1.0	§J	1.0		120	6.0	65	1.0u	10Ø	150m	40	#	60M§△			PLØ	TO5	Ø
33	MRF402	5.6m	1.0	§S			36	4.0	18	500mØ	5.0Ø	250m	5.0						TO39	A
34	2N2270	5.7m	1.0 Ø	§J	1.0		60	7.0	45	50n	10Ø	150m	50	200	100M§△	60		△	TO39	AØ
35	2N2270S	5.7m	1 0 Ø	§J	1 0		60	7.0	45	50n	10Ø	150m	50	200	100M§△	60		△	TO39	AØ
36	2N2405	5.7m	1.0	§S	1 0		120	7.0	90	10nØ	10Ø	150m	60	200 #					TO5	AØ
37	2N2405S	5.7m	1.0	§S	1.0		120	7.0	90	10nØ	10Ø	150m	60	200 #					TO5	AØ
38	2N2987	5.7m	1.0	§C	1.0	200m	95	7 0	80	30n§	5.0Ø	200m	25	75 #	30M§△				TO5	AØ
39	2N2988	5.7m	1.0	§C	1.0	200m	155	7.0	100	30n§	5.0Ø	200m	25	75 #	30M§△				TO5	AØ
40	2N2989	5.7m	1.0	§C	1.0	200m	95	7.0	80	30n§	5.0Ø	200m	60	120 #	30M§△				TO5	AØ
41	2N2990	5.7m	1.0	§C	1.0	200m	155	7 0	100	30n§	5.0Ø	200m	60	120 #	30M§△				TO5	AØ
42	2N3418†	5.7mØ	1.0	§C	3.0	1.0	85	8.0	60	500n#	2.0Ø	1.0	20	60 #	40M§△		300nØ		TO5	AØ
43	2N3419†	5.7mØ	1.0	§C	3.0	1.0	125	8.0	80	500n#	2.0Ø	1.0	20	60 #	40M§△		300nØ		TO5	AØ
44	2N3420†	5.7mØ	1.0	§C	3.0	1.0	85	8.0	60	500n#	2 0Ø	1.0	40	120 #	40M§△		300nØ		TO5	AØ
45	2N3421†	5.7mØ	1.0	§C	3.0	1.0	125	8.0	80	500n#	2.0Ø	1.0	40	120 #	40M§△		300nØ		TO5	AØ
46	2N3444†	5.7mØ	1.0	§S	1.0		80	5.0	50	500nØ	1.0Ø	500mØ	20	60 #	150M§△		35n☑		TO5	AØ
47	2N3498	5.7m	1.0	§S	500m		100	6.0	100	50nØ	10Ø	150m	40	120 #	150M§△				TO5	AØ
48	2N3499	5.7m	1.0	§S	500m		100	6.0	100	50nØ	10Ø	150m	100	300 #	150M§△				TO5	AØ
49	2N3500	5.7m	1.0	§S	300m		150	6 0	150	50nØ	10Ø	150m	40	120 #	150M§△				TO5	AØ
50	2N3501	5.7m	1.0	§S	300m		150	6.0	150	50nØ	10Ø	150m	100	300 #	150M§△				TO5	AØ
51	2N3506†	5.7mØ	1.0	§S	3.0		60	5.0	40	1.0m#	2.0Ø	1.5	40	200	60M§△	1.0	30n☑		TO5	AØ
52	2N3507†	5.7mØ	1.0	§S	3.0		80	5.0	50	1.0m#	2.0Ø	1.5	30	150	60M§△	1.0	30n☑		TO5	AØ
53	2N5189†	5.7m	1.0	§S	2.0		60	5.0	35	100u	1.0Ø	1.0	15		400M§△				R179	AØ
54	2N5262†	5.7m	1.0	§	2.0		75	5.0	50	1.0u§	1.0Ø	500m	40 Ø		350M§			PE	TO39	AØ
55	2N5681	5.7m	1.0	§J	1.0	500m	100 †	4.0†	100	1.0u	2.0Ø	250m	40	150	30M§△	2.0			TO5	AØ
56	2N5682	5.7m	1.0	§J	1.0	500m	120 †	4.0†	120	1.0u	2.0Ø	250m	40	150	30M§△	2.0			TO5	AØ
57	MM1812	5.7m	1.0	§J	100m		175	4.0	175	100nØ	10Ø	10mØ	35	200 #					TO5	
58	MM2258	5.7m	1.0	§J	500m		120	5.0	120	50nØ	10Ø	10m	35 #		150M§△	16		AN	TO5	AØ
59	MM2259	5.7m	1.0	§J	300m		175	5.0	175	50nØ	10Ø	10m	50 #		150M§△	16		AN	TO5	AØ
60	MM2260	5.7m	1.0	§J	300m		175	5.0	175	50nØ	10Ø	10m	50 #		150M§△	16		AN	TO5	AØ
61	MM3000	5.7m	1.0	§J	200m			5.0	100 *	1.0uØ	10Ø	10m	20		150M§△			E	TO39	A
62	MM3001	5.7m	1.0	§J	200m			5.0	150 *	1.0uØ	10Ø	10m	20		150M§△			E	TO39	A
63	MM3002	5.7m	1.0	§J	50m			5.0	200 *	5.0uØ	10Ø	10m	20		150M§△			E	TO39	A
64	MM3003	5.7m	1.0	§J	50m			5.0	250 *	5.0uØ	10Ø	10m	20		150M§△			E	TO39	A
65	MM3008	5.7m	1.0	§J	400m			6.0	120 *	100nØ	10Ø	10m	40		50k				TO39	A
66	MM3009	5.7m	1.0	§J	400m			6.0	180 *	100nØ	10Ø	10m	40		50M§△				TO39	A
67	MRF404	5.7m	1.0	§S	500m		60	3.0	30	10uØ	2.0Ø	40m	10						TO39	A
68	MS300CE	5.7m	1.0 Ø	§S	100m		30	1.0	20	1.0uØ	10Ø	5.0m	20		4.5G§			Ø	W67	R
69	MS300JE	5.7m	1.0 Ø	§S	100m		30	1.0	20	1.0uØ	10Ø	5.0m	40		2.0G#			Ø	W21	R☑
70	MS300TE	5.7m	1.0 Ø	§S	100m		30	1.0	20	1.0uØ	10Ø	5.0m	20		4.5G§			Ø	W5b	C☑
71	MS300YE	5.7m	1.0 Ø	§S	100m		30	1.0	20	1.0uØ	10Ø	5.0m	40		2.0G#			Ø	W67a	E
72	MS2110CE	5.7m	1.0 Ø	§S	50m		30	1.0	20	1.0uØ	9.0Ø	5.0m	20		4.5G§			Ø	W67	R
73	MS2110JE	5.7m	1.0 Ø	§S	50m		30	1.0	20	1.0uØ	10Ø	5.0m	40		4.5G§			Ø	W21	R☑
74	MS2110KE	5.7m	1.0 Ø	§S	50m		30	1.0	20	1.0uØ	9.0Ø	5.0m	20		4.5G§			Ø	W45a	V
75	MS2110TE	5.7m	1.0 Ø	§S	50m		30	1.0	20	1.0uØ	9.0Ø	5.0m	20		4.5G§			Ø	W5b	C☑
76	MS2110YE	5.7m	1.0 Ø	§S	50m		30	1.0	20	1.0uØ	10Ø	5.0m	40		4.5G§			Ø	W67a	E
77#	TIXS12	5 7m	1.0	§J	200m		30	2.0	15	500u	10Ø	50m	20		1.4G			PE	R200	
78#	TIXS13	5.7m	1.0	§J	200m		30	2.0	15	500u	10Ø	50m	20		1.2G			PE	R200	
79	BSX48☑†	6.0m	1.0	§J	600m	200m	50	5.0	25	120n	1.0Ø	10m	20	150	400M§	3.0	35 Ø	AN	TO18	A
80	BSX49☑†	6.0m	1 0	§J	600m	200m	60	5.0	40	70nØ	1.0Ø	10m	20	150	400M§	3.0	30 Ø	AN	TO18	A
81	TRS501LC	6.0m	1.0	§J	400m		500	5 0	500	15uØ	10Ø	20m	30	65 Ø				D	TO5	
82	TRS601LC	6 0m	1 0	§J	400m		600	5.0	600	20uØ	10Ø	20m	30	65 Ø				D	TO5	
83	2N3298	6.6mØ	1.0	§J	100m		25	3.0	15	50u	1.0Ø	10m	80		200M§△				TO18	AØ
84	2N4069	6.6mØ	1.0	§S	200m		150	5.0	150	50nØ	10Ø	30m	30		50M§△	100			R119	
85	2N5185	6.6mØ	1.0	§S	50m			5.0	120		10Ø	50m	10		30M§△				R119	AØ
86	2N5413†	6.6m	1.0	§S	2.0		60	6.0	40 *	1.0uØ	2.0Ø	2.0	25	100 #	250M§△		37n☑		TO39	AØ
87	2N5414†	6.6m	1.0	§S	2.0		80	6.0	50 *	1.0uØ	2.0Ø	2.0	20	100 #	250M§△		37n☑		TO39	AØ
88#	2SC971	6.6mØ	1.0	§J	500m		50	5.0	30	1.0uØ	4.0Ø	10m	160 Ø		70M§	1.5 ▼		PE	R214a	AØ
89#	2SC1719	6.6mØ	1.0	§J	50m		150	5.0	120	1.0uØ	5.0Ø	10m	150 Ø		130M§	50		PE△	R214a	AØ
90#	2SC1720	6.6mØ	1.0	§J	50m		150	5.0	150	1.0uØ	5.0Ø	10m	150 Ø		130M§	50		PE△	R214a	AØ
91#	2SD78	6.6m	1.0	§J	2.0		100	12	60	1.0uØ	2.0Ø	500m	80 #	†				PE	TO5	
92#	BCY66	6.6m*	1.0 Ø	§J	200m		45	7.0	45	10nØ	5.0Ø	2.0m	250	330	150M§△			PL	TO18	
93	SCA0005*	6.6m	1 2	§J	400m		50	4 5	30	10n	5.0Ø	200m	20	100	2.2G§	2.5			W14b	R
94	SCA13682*	6.6m	1.2	§J	400m		50	4.5	30	10n	5.0Ø	200m	20	100	2.2G§	2.5			TO39	
95	SCA13683*	6.6m	1.2	§J	400m		50	4.5	30	10n	5.0Ø	200m	20	100	2.2G§	2.5			TO72	
96	SRL1014	6.6mØ	1.0	§J	3.0	1.0	100	4.0	100 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
97	SRL2014	6.6mØ	1.0	§J	3.0	1.0	200	4.0	200 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
98	SRL2254S	6.6mØ	1 0	§J	3.0	1.0	250	4.0	225	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
99	SRL2504	6.6mØ	1.0	§J	3.0	1.0	250	4.0	250 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
100	SRL2504S	6.6mØ	1.0	§J	3.0	1.0	275	4.0	250	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
101	SRL2754S	6 6mØ	1.0	§J	3.0	1.0	300	4.0	275	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
102	SRL3014	6.6mØ	1.0	§J	3.0	1.0	300	4.0	300 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
103	SRL3014S	6.6mØ	1.0	§J	3.0	1.0	325	4.0	300	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
104	SRL3504	6.6mØ	1.0	§J	3.0	1.0	350	4.0	350 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
105	SRL3504S	6.6mØ	1.0	§J	3.0	1.0	375	4.0	350	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
106	SRL4014	6 6mØ	1.0	§J	3.0	1.0	400	4.0	400 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
107	SRL4014S	6.6mØ	1.0	§J	3.0	1.0	425	4.0	400	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
108	SRL4504	6.6mØ	1.0	§J	3.0	1.0	450	4.0	450 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
109	SRL5014	6.6mØ	1.0	§J	3 0	1 0	500	4.0	500 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ
110	SRL5504	6.6mØ	1.0	§J	3.0	1.0	550	4.0	550 §	10u	10Ø	500m	15	35 Ø	10M§△		400n	EM△	TO5	AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1♦#	2SC1567	9.6m	1.2 Ø	§J	500m		100	5.0	100	10u	10Ø	150m	65	330	120M§	800m		PE	TO126	B
2♦#	2SC1567A	9.6m	1.2 Ø	§J	500m		120	5.0	120	10u	10Ø	150m	65	330	120M§	800m		PE	TO126	B
3	JAN2N3418†	10m§	1.0	§A	3.0		85	8.0	60	500n#	2.0Ø	1.0	20	60 #	40M§△		300nØØ		TO5	A
4	JAN2N3419†	10m§	1.0	§A	3.0		125	8.0	80	500n#	2.0Ø	1.0	20	60 #	40M§△		300nØØ		TO5	A
5	JAN2N3420†	10m§	1.0	§A	3.0		85	8.0	60	500n#	2.0Ø	1.0	40	120 #	40M§△		300nØØ		TO5	A
6	JAN2N3421†	10m§	1.0	§A	3.0		125	8.0	80	500n#	2.0Ø	1.0	40	120 #	40M§△		300nØØ		TO5	A
7	2N5079	10m	1.8 Ø	§S	1.0	200m	60	5.0	30	10nØ	10Ø	150m	100	300	400M§△	1.0		Ø	TO18	AØ
8	2N5080	10m	1.8 Ø	§S	1.0	200m	60	5.0	30	10uØ	10Ø	150m	200	500	500M§△	1.0		Ø	TO18	AØ
9♦#	2SC1514	10mØ	1.2	§J	100m		300	5.0	300	1.0u△	20Ø	20m	30	200	80M§	75		D	B11	D
10#	2SC1516K†	10mØ	1.2	§J	1.5		35	5.0	35	20uØ	2.0Ø	500m	60	320 *	110M§	500m		PE	B11	D
11#	2SC1517AK†	10mØ	1.2	§J	1.0		80	4.0	80	5.0uØ	4.0Ø	50m	40	320 *	11M§	1.5		D	B11	D
12#	BFY65	10m	1.3 Ø*	§J	100m		100	7.0	80 *	500u	2.0Ø	15m	30		50M§△			PE	TO39	AØ
13	ST91054†	10m#	15 Ø#	§J	5.0		125	10	80 *	20uØ	10Ø	2.0	30	120 #	10M§△		500nØ	PL	TO5	
14	ST91055†	10m#	15 Ø#	§J	5.0		145	10	100 *	20uØ	10Ø	2.0	30	120 #	10M§△		500nØ	PL	TO5	
15	ST91056†	10m#	15 Ø#	§J	5.0		170	10	120 *	20uØ	10Ø	2.0	30	120 #	10M§△		500nØ	PL	TO5	
16	2N2991	11m	2.0	§C	1.0	200m	95	7.0	80	30n§	5.0Ø	200m	25	75 #	30M§△				T13	AØ
17	2N2992	11m	2.0	§C	1.0	200m	155	7.0	100	30n§	5.0Ø	200m	25	75 #	30M§△				T13	AØ
18	2N2993	11m	2.0	§C	1.0	200m	95	7.0	80	30n§	5.0Ø	200m	60	120 #	30M§△				T13	AØ
19	2N2994	11m	2.0	§C	1.0	200m	155	7.0	100		5.0Ø	200m	60	120 #	30M§△				T13	AØ
20	2N5581†	11m	2.0 Ø	§S	800m		75	6.0	40	10nØ	10Ø	100u	20		250M§△		25n		TO46	AØ
21	2N5582†	11m	2.0 Ø	§S	800m		75	6.0	40	10nØ	10Ø	100u	35		300M§△		25n		TO46	AØ
22	JAN2N5660†	11mØ	2.0	§A	2.0	500m	250	6.0	200	1.0m	5.0Ø	500m	40	120 #	20M§△		250nØØ		TO66	CØ
23♦	JAN2N5661†	11mØ	2.0	§A	2.0	500m	400	6.0	300	1.0m	5.0Ø	500m	25	75 #	20M§△		250nØØ		TO66	CØ
24	2N5836	11m	2.0 Ø	§S	200m		15	3.5	10	10uØ	6.0Ø	50m	25		2.0G§△			△	TO46	AØ
25	2N5837	11m	2.0 Ø	§S	300m		10	3.5	5.0	10uØ	3.0Ø	100m	25		1.7G§△			△	TO46	AØ
26	2N6256	11m	2.0 Ø	§S	400m		36 †	4.0†	16	500uØ♦	5.0Ø	50m	20	200					W53	R
27	40081	11m	2.0 Ø	§J	250m			2.0		10u					27M*			DPL	TO5	AØ
28	HP35812E*	11m	1.6	§S	125m		30	1.5	25	300u	15Ø	100m	15	150	2.0G#				T125	
29	HP35859E*	11m	1.6	§S	125m		30	1.5	25	300u	15Ø	100m	15	150	2.0G#				W36	
30	MRF509	11m	2.0 Ø	§S	400m		55	3.5	30	20u△♦	5.0Ø	50m	30	200	1.0G§				W66	R
31	SCA3522	11m	2.0 Ø	§J	250m		70	4.0	40	10u					150M§			D	TO39	A
32	2N2239	12m	1.0	§J	500m		60	8.0	50 §	10uØ	10Ø	200mØ	30	200 #		15 #			F8	AØ
33	2N2952	12m	1.8 Ø	§C	250m	50m		5.0	60 Ø	100pØ	10Ø	10	20	150	200M§△	3.3			TO18	AØ
34#	2SC130	12m	1.8	§J	400m		60		50 §	100nØ	10Ø	20m△	20 †	150	160M†			PL	TO8	
35#	2SC234	12m	1 8	§J	1 5		100			1.0mØ	10Ø	150m△		20 †	140M§			EM	TO8	
36#	2SC236	12m	1.8	§J	500m		90			100pØ	10Ø	20m△		17 †	100M§			EM	TO8	
37	2N1092†	13m	2.0 Ø	§A	500m	200m	60	12	30	500u	4.0Ø	200m	15	75	1.5M†	10	1.2u	D	TO5	AØ
38▼	2N1644	13m	2.0 Ø	§J			60	5.0	40 §	100u	10Ø	150m	40	120	50M§△	10		△	TO5	AØ
39	2N3295	13m	2.0 Ø	§C	250m	50m	60	5.0	60 Ø	100nØ	10Ø	10m	20	60	200M§△	3.3			TO5	AØ
40	2N5280	13m	15 Ø	§A	1.0	500m	400	7.0	300 ☑	20uØ	10Ø	20m	40	160	15M§△	10			F8	AØ
41▼#	2SC22	13m	13 Ø	§J	600m		75	5.0	50	2.0uØ	10Ø	150m	20	100		2.4		E	TO8	AØ
42▼#	2SC23	13m	13 Ø	§J	500m		75	5.0	50	5.0uØ	10Ø	150m	20	100	110M§	2.4		E	TO8	AØ
43▼#	2SC24	13m	13 Ø	§J	500m		100	5.0	70	5.0uØ	10Ø	150m	20	100	110M§	2.4		E	TO8	AØ
44#	2SC916†	13mØ	2.0	§J	1.5		100	5.5	70	10uØ	1.0Ø	400m	70 Ø			480m	63nØ	PE	TO8	AØ
45♦#	2SC1073	13m	2.0	§J	1.5 #		36	4.0	18	5.0u	13Ø	100m	20	70 Ø	1.0G§			PE	T98	V
46#	71T2	13m	2.0	§J			80	5.0	60 *	50u△	2.0Ø	1.0	30	90 #					F8	AØ
47#	72T2	13m	2.0	§J			80	5.0	60 *	50u△	2.0Ø	1.0	75	200 #					F8	AØ
48#	73T2	13m	2.0	§J			80	5.0	60	75u	10Ø	200m	30	90 #					F8	AØ
49#	74T2	13m	2.0	§J			80	5.0	60	75u	10Ø	200m	75	200 #					F8	AØ
50	40885	13mØ	1.4	†J	1.0	500m	300	6.0	250 ☑	50uØ	10Ø	20m	30	190	21M§	10		D	B24a	AØ
51	40886	13mØ	1.4	†J	1.0	500m	350	6.0	300 ☑	50uØ	10Ø	20m	30	150	21M§	10		D	B24a	AØ
52	40887	13mØ	1.4	†J	1.0	500m	450	6.0	350 ☑	20uØ	10Ø	50m	30	150	21M§	10		D	B24a	AØ
53	TRL4015S	13mØ	2.0	§S	3.0	1.0	425	4.0	400	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	F8	
54	TRL4505	13mØ	2.0	§S	3.0	1.0	450	4.0	450 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	F8	
55	TRL5015	13mØ	2.0	§S	3.0	1.0	500	4.0	500 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	F8	
56	TRL5015S	13mØ	2 0	§S	3.0	1.0	525	4.0	500	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	F8	
57	TRL5505	13mØ	2.0	§S	3.0	1.0	550	4.0	550 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	F8	
58	TRL6015	13mØ	2.0	§S	3.0	1.0	600	4.0	600 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	F8	
59	TRL6505	13mØ	2.0	§S	3.0	1.0	650	4.0	650 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	F8	
60	TRL7015	13mØ	2.0	§S	3.0	1.0	700	4.0	700 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	F8	
61	TRL7505	13mØ	2.0	§S	3.0	1.0	750	4.0	750 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	F8	
62	TRL8015	13mØ	2.0	§S	3.0	1.0	800	4.0	800 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	F8	
63	TRM2015	13mØ	2.0	§S	3.0	1.0	200	6.0	200 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
64	TRM2255S	13mØ	2.0	§S	3.0	1.0	250	6.0	225	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
65	TRM2505	13mØ	2.0	§S	3.0	1.0	250	6.0	250 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
66	TRM2505S	13mØ	2.0	§S	3.0	1.0	275	6.0	250	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
67	TRM2755S	13mØ	2.0	§S	3.0	1.0	300	6.0	275	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
68	TRM3015	13mØ	2.0	§S	3.0	1.0	300	6.0	300 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
69	TRM3015S	13mØ	2.0	§S	3.0	1.0	325	6.0	300	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
70	TRM3505	13mØ	2.0	§S	3.0	1.0	350	6.0	350 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
71	TRM3515S	13mØ	2.0	§S	3.0	1.0	375	6.0	350	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
72	TRM4015	13mØ	2.0	§S	3.0	1.0	400	6.0	400 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
73	TRM4015S	13mØ	2.0	§S	3.0	1.0	425	6.0	400	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
74	TRM4505	13mØ	2.0	§S	3.0	1.0	450	6.0	450 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
75	TRM5015	13mØ	2.0	§S	3.0	1.0	500	6.0	500 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
76	TRM5015S	13mØ	2.0	§S	3.0	1.0	525	6.0	500	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
77	TRM5505	13mØ	2.0	§S	3.0	1.0	550	6.0	550 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
78	TRM6015	13mØ	2.0	§S	3.0	1.0	600	6.0	600 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
79	TRM6505	13mØ	2.0	§S	3.0	1.0	650	6.0	650 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
80	TRM7015	13mØ	2.0	§S	3.0	1.0	700	6.0	700 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
81	TRM7505	13mØ	2.0	§S	3.0	1.0	750	6.0	750 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
82	TRM8015	13mØ	2.0	§S	3.0	1.0	800	6.0	800 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	F8	
83	TRS3015LC	13m	2.0	§J	400m		300	5.0	300	10uØ	10Ø	20m	40	65 Ø				D	F8	
84	TRS3016LC	13m	2.0	§J	400m		300	5.0	300	10uØ	10Ø	20m	40	65 Ø				D	TO66	
85	TRS4015LC	13m	2.0	§J	400m		400	5.0	400	10uØ	10Ø	20m	30	65 Ø				D	F8	
86	TRS4016LC	13m	2.0	§J	400m		400	5.0	400	10uØ	10Ø	20m	30	65 Ø				D	TO66	
87	TRS5015LC	13m	2.0	§J	400m		500	5.0	500	15uØ	10Ø	20m	30	65 Ø				D	F8	
88	TRS5016LC	13m	2.0	§J	400m		500	5.0	500	15uØ	10Ø	20m	30	65 Ø				D	TO66	
89	TRS6015LC	13m	2.0	§J	400m		600	5.0	600	20uØ	10Ø	20m	30	65 Ø				D	F8	
90	TRS6016LC	13m	2.0	§J	400m		600	5.0	600	20uØ	10Ø	20m	30	65 Ø				D	TO66	
91	JAN2N5664†	14mØ	2.5	§A	5.0	1.0	250	6.0	200	1.0m	5.0Ø	1.0	40	120 #	20M§△		250nØØ		TO66	CØ
92	JAN2N5665†	14mØ	2.5	§A	5.0	1.0	400	6.0	300	1.0m	5.0Ø	1.0	25	75 #	20M§△		250nØØ		TO66	CØ
93	MRF515	14m	2.5 Ø	§S	150m		35 †	4.0†	20	10u△♦	10Ø	50m	20	150	2.0G§	10			TO39	A
94	JAN2N6104	15m	2.6	§A	4.5			4.0	30	10m	4.0Ø	500m	10	200 #		1.0 #			W76	R
95	JAN2N6105	15m	2.6	§A	4.5			4.0	30	10m	4.0Ø	500m	10	200 #		1.0 #			Y216a	R
96	SPT3055-1	15mØ	115 Ø	§J	15	7.0	80	7.0	50 ☑	5.0m♦	4.0Ø	3.0	15			500m		D	TO3	CØ
97	JAN2N3735†	16m	1.0	§J	1.5		75	5.0	50 *	250mØ	1.0Ø	500m	40	140 #	250M§△	2.0	40n		TO5	AØ
98#	2N3869	16m	2.5 Ø	§J	500m	100m	40	4.0	20	1.0uØ	5.0Ø	30m	20	150 #	400M§△	1.5			TO5	A
99	2N4296†	16m	2.0 #	§S	1.0	250m	350	4.0	250	100u	10Ø	50m	50	150	20M§△		7.0uØ		TO66	CØ
100	2N4297†	16m	2.0 #	§S	1.0	250m	350	4.0	250	100u	10Ø	50m	75	300	20M§△		7.0uØ		TO66	CØ
101	2N4298†	16m	2.0 #	§S	1.0	250m	500	4.0	350	100u	10Ø	50m	25	75	20M§△		7.0uØ		TO66	CØ
102	2N4299†	16m	2.0 #	§S	1.0	250m	500	4.0	350	100u	10Ø	50m	50	150	20M§△		7.0uØ		TO66	CØ
103	2N5421	16m	3.0 Ø	§C	500m	250m	36	4.0	18	1.0uØ	5.0Ø	100m	10	60	300M§	2.0			TO39	AØ
104	2N6551	16m	2.0	§S	1.0	100m	60	5.0	60	100nØ	1.0Ø	50m	80	300 #	75M§△	2.0 #			Y202c	P
105	2N6552	16m	2.0	§S	1.0	100m	80	5.0	80	100nØ	1.0Ø	50m	80	250 #	75M§△	2.0 #			Y202c	P
106	2N6553	16m	2.0	§S	1.0	100m	100	5.0	100	100nØ	1.0Ø	50m	80	250 #	75M§△	2.0 #			Y202c	P
107	2N6557	16mØ	2.0	§S	500m	250m	250	6.0	250	200nØ	10Ø	30m	40	180 #	45M§△	20 #			Y202c	GØ
108	2N6558	16mØ	2.0	§S	500m	250m	300	6.0	300	200nØ	10Ø	30m	40	180 #	45M§△	20 #			Y202c	GØ
109	2N6559	16mØ	2.0	§S	500m	250m	350	6.0	350	200nØ	10Ø	30m	40	180 #	45M§△	20 #			Y202c	GØ
110	2N6591	16mØ	2.0	§J	500m	100m	150	5.0	150	200nØ	10Ø	100m	40	200 #	70M§△	4.0 #			Y202c	GØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	HP35831EOpt005*	20m	1.6 Ø	§J	80m†		35 †	1.5	30	100uØ	15Ø	15m	15	125	2.0G#				W17	S
2♦	HP35850A	20m	2.5 Ø	§J	125m†		30 †	1.5†	25	100uØ	15Ø	100m	15	125	3.0G#				C23	
3	HP35853B	20m	2.5 Ø	§J	125m†		30 †	1.5†	25	100uØ	15Ø	100m	15	125	3.0G#				W16	E
4	HP35853E*	20m	2.5 Ø	§J	125m†		30 †	1.5†	25	100uØ	15Ø	100m	15	125	3.0G#				W16	F
5	HP35854B	20m	2.5 Ø	§J	125m†		30 †	1.5†	25	100uØ	15Ø	100m	15	125	3.0G#				T112	E
6	HP35854E*	20m	2.5 Ø	§J	125m†		30 †	1.5†	25	100uØ	15Ø	100m	15	125	3.0G#				T112	F
7	MM8000	20m	3.5 Ø	§J	400m		40	3.5	30	20uΔ	15Ø	50m	30		550M§Δ			Ø	TO39	A
8	MM8001	20m	3.5 Ø	§J	400m		40	3.5	30	20uΔ	15Ø	50m	30		700M§Δ			Ø	TO39	A
9	MM8009	20m	1.0	§J	400m		45 †	3.0†	35	100uΔ♦	5 0Ø	100m	20		1.0G§Δ				TO39	A
10	MRF207	20m	3 5 Ø	§S	400m		36 †	4.0	18	100uØ♦	5.0Ø	100m	5.0						TO39	AØ
11	MRF225	20m	3.5 Ø	§S	250m		36 †	4.0†	18	100u♦Ø	5.0Ø	100m		100u	225M#				TO39	A
12	MRF517	20m	2.5 Ø#	§J	150m		35 †	3.5†	20	100uΔ♦	10Ø	60m	50	150	2.7G§			Ø	TO39	A
13	MST10	20m	1 0	§A	350m	100m	100	5.0	100 §	3.0uØ	10Ø	55m	30	55 Ø	40M§	25		DM	TO5	
14	MST15	20m	1.0	§A	350m	100m	150	5.0	150 §	3.0uØ	10Ø	55m	30	55 Ø	40M§	25		DM	TO5	
15	MST20	20m	1.0	§A	350m	100m	200	5.0	200 §	3.0uØ	10Ø	55m	30	55 Ø	40M§	25		DM	TO5	
16	MST25	20m	1.0	§A	350m	100m	250	5 0	250 §	3 0uØ	10Ø	55m	30	55 Ø	40M§	25		DM	TO5	
17	MST30	20m	1 0	§A	350m	100m	300	5 0	300 §	3.0uØ	10Ø	55m	30	55 Ø	40M§	25		DM	TO5	
18	MST35	20m	1.0	§A	350m	100m	350	5.0	350 §	3.0uØ	10Ø	55m	30	55 Ø	40M§	25		DM	TO5	
19	MST40	20m	1.0	§A	350m	100m	400	5.0	400 §	4.0uØ	10Ø	45m	30	55 Ø	40M§	30		DM	TO5	
20	MST45	20m	1.0	§A	350m	100m	450	5.0	450 §	4.0uØ	10Ø	45m	30	55 Ø	40M§	30		DM	TO5	
21	MST50	20m	1.0	§A	300m	100m	500	5.0	500 §	6.0uØ	10Ø	25m	30	55 Ø	40M§	55		DM	TO5	
22	MST55	20m	1.0	§A	300m	100m	550	5 0	550 §	6.0uØ	10Ø	25m	30	55 Ø	40M§	60		DM	TO5	
23	MST60	20m	1.0	§A	300m	100m	600	5.0	600 §	8.0uØ	10Ø	25m	30	55 Ø	40M§	60		DM	TO5	
24	MST65	20m	1.0	§A	300m	100m	650	5.0	650 §	8.0uØ	10Ø	25m	30	55 Ø	40M§	60		DM	TO5	
25	MST70	20m	1.0	§A	250m	100m	700	5.0	700 §	10uØ	10Ø	25m	30	55 Ø	40M§	65		DM	TO5	
26	MST75	20m	1.0	§A	250m	100m	750	5.0	750 §	10uØ	10Ø	22m	30	55 Ø	40M§	73		DM	TO5	
27	MST80	20m	1.0	§A	200m	50m	800	5.0	800 §	12uØ	10Ø	22m	25	50 Ø	40M§	73		DM	TO5	
28	MST85	20m	1.0	§A	200m	50m	850	5.0	850 §	12uØ	10Ø	20m	25	50 Ø	40M§	80		DM	TO5	
29	MST90	20m	1.0	§A	200m	50m	900	5.0	900 §	15uØ	10Ø	20m	25	50 Ø	40M§	80		DM	TO5	
30	MST95	20m	1.0	§A	150m	50m	950	5.0	950 §	15uØ	10Ø	15m	25	50 Ø	40M§	100		DM	TO5	
31	MST100	20m$	2 0 Ø	§J			1.0k	5.0	1.0k§	12uØ	10Ø	20m	30		40k§	90		D	TO5	
32	PT1515	20m	3.0 Ø	§J	500m	200m	80	4.0	80 §	10uØ	28Ø	100m	15	100 #				PL	TO5	AØ
33	PT1559	20m	3.5 Ø	§J	500m	200m	80	5.0	50	50nØ	28Ø	100m	10 #		140M§Δ	4.0		PL	TO5	AØ
34	SD1006	20m	3.5 Ø	§J	400m		50	5.0	30	100uΔ	15Ø	50m	30	300	1.8G§			Ø	TO39	A
35▼	TIC3539	20m	1 0	§S	400m		40	3.5	30	10uØ	15Ø	50m	25	300	1 0G§Δ	2.0		Ø	TO39	A
36▼	TIC3540	20m	5.0 Ø	§S	400m		40	3.0	25	20uØ	5.0Ø	50m	50	250	1.5G§Δ			Ø	TO117	Z
37▼	TIC3540R	20m	5.0 Ø	§S	400m		40	3.0	25	20uØ	5.0Ø	50m	50	250	1.5G§Δ			Ø	TO117	Z
38	2N497	22m	4.0 Ø	§J			60	8 0	60	10uØ	10Ø	200m	12	36		25		ME	TO5	AØ
39	2N498	22m	4.0 Ø	§J			100	8.0	100	10uØ	10Ø	200m	12	36		25		ME	TO5	AØ
40	2N656	22m	4.0 Ø	§J			60	8.0	60	10uØ	10Ø	200m	30	90		25		ME	TO5	AØ
41	2N656S	22m	4.0 Ø	§J			60	8.0	60	10uØ	10Ø	200m	30	90		25		ME	TO5	AØ
42	2N657	22m	4.0 Ø	§J			100	8.0	100	10uØ	10Ø	200m	30	90		25		ME	TO5	AØ
43	2N657S	22m	4.0 Ø	§J			100	8.0	100	10uØ	10Ø	200m	30	90		25		ME	TO5	AØ
44	2N3118	22m	1.0	§S	500m		85	4.0	60	100nØ	28Ø	25m	50	275 #	250M§Δ				TO5	AØ
45	2N3119	22m	1.0	§S	500m		100	4.0	80	50nØ	10Ø	10m	40		250M§Δ	5.0	20uØ		TO5	AØ
46	2N3435	22m	1.0	§S	250m		80	4.0	60	50n♦Ø	20Ø	10m	50	200	140M§Δ				TO5	AØ
47	2N3734†	22m	1.0	§S	1.5		50	5.0	30	200nØ#	1.5Ø	1.0	30	120	300M§Δ	20	40nØ		TO5	AØ
48	2N3734S†	22m	1 0	§S	1 5		50	5.0	30	200nØ#	1.5Ø	1.0	30	120	300M§Δ	20	40nØ		TO5	AØ
49	2N3735†	22m	1.0	§S	1.5		75	5.0	50	200nØ#	1 5Ø	1.0	20	80	250M§Δ	20	40nØ		TO5	AØ
50	2N6526	22m	3.9 Ø	§S	500m†		50 †	3.5†	50 §	500m§♦	5.0Ø	50m	15						W24	A§
51#	2SC1262	22m	2.8 Ø	§J	300m		45	3.0	20	1.0uØ	15Ø	65m	80 Ø		1 7G			PE	T88a	R
52♦	40346V1	22mØ	4.0	§J	1 0	500m			175 §	5.0uΔØ	10Ø	10m	25		10M§Δ	50		PLΔ	F31	AØ
53♦	40412V1	22mØ	4.0	§J	1.0	500m			250 §	1.0m*Ø	20Ø	30m	40		10M§Δ			PLΔ	F31	AØ
54#	BF179A	22m	1 7 Ø	§J	50m	10m		5.0	160 Ø						120M§			DPL	TO5	AØ
55#	BF179B	22m	1.7 Ø	§J	50m	10m		5.0	220 Ø						120M§			DPL	TO5	AØ
56#	BF179C	22m	1.7 Ø	§J	50m	10m		5.0	250 Ø						120M§			DPL	TO5	AØ
57	MM3734†	22m	1.0	§J	1.5		50	5.0	30	500nØ	1.5Ø	1 0	25	100 #	400M§	25 #	16nØ	AN	TO39	A
58	MM3735†	22m	1.0	§J	1.5		75	5.0	50	500nØ	1.5Ø	1.0	20	100 #	400M§	25 #	28nØ	AN	TO39	A
59	MM5189†	22m	1.0	§J	2.0		60	5.0	40 *	100u	1.0Ø	1.0	20 Ø	35 #	350M§	1.0 #	16nØ	ANΔ	TO39	A
60	MM5262†	22m	1.0	§J	2.0		75	5.0	50 *	100u	1.0Ø	100m	35 Ø	100 #	350M§	800m#	16nØ	ANΔ	TO39	A
61	MSC80044*	22m					50 †	3.5†	20		5.0Ø	100m	15	20	3.2G§				T95	R
62	MSC80064*	22m					50 †	3.5†	20		5.0Ø	100m	15	20	3.2G§				W77	F
63	PT1558	22m	4.0 Ø	§J	500m	200m	80	5.0	45	50nØ	28Ø	100m	10	100 #	250M*	4 0		PL	TO5	AØ
64	2N3309	23m	3.5 Ø	§C	500m	100m	50	3.0	50 Ø	100u§	2.0Ø	75	5.0	100	300M§Δ	2.0			TO39	AØ
65	2N3659	23m	4.0 Ø	§S	500m	250m	220	5 0	170	10nØ	50Ø	10m	20		50M§Δ				TO5	AØ
66#	2SC845	23m	3.5 Ø	§J	400m		55	3.5	30	1.0uØ	5.0Ø	100m	10	200	800M§			PL	TO5	Ø
67#	2SC872M	23m	3.5 Ø	§J	400m		40	4 0	20	1.0uØ					600M§	5.0		PE	TO39	A
68	PT6669	23mØ	4.0 Ø	§S	200m		55	3.5	30											
69#	2NJ242E*	24m	3 7 Ø	§J	300m		35	3.5	20	200uØ	5 0Ø	100m	50 Ø					PE	W86	A
70	2N1206	25m$	3 0 Ø	§S	150m		60	3.0	60	10u#	10Ø	50mΔ	20	80	10M§Δ	30			TO5	A
71	2N1207	25m$	3 0 Ø	§S	150m		125	3.0	125	10u#	10Ø	50mΔ	20	80	10M§Δ	70			TO5	A
72	2N3152	25m$	2.5 Ø	§S	100m		120	4.0	120	50u†Ø	20Ø	30m	40		200M§Δ				T30	A
73#	2SC777	25m	2.0	§J	1.0		75	4 0	75 §	10uØ	10Ø	100m	5.0		150M§			PE	F19	Ø
74♦#	2SC1038	25m	3.7 Ø	§J	150m		40	3.0	20	50uØ	10Ø	70m	15	200	2.0G§			PE	T136	S
75♦#	2SC1041	25m	3.7 Ø	§J	150m		40	3.0	20	50uØ	10Ø	70m	15	200	2.0G§			PE	T136	S
76▼#	2SC1600*	25m	4.4 Ø	§J	250m		40	3 0	20	100uØ	10Ø	100m	15	200	2.0G§			E	TO46	AØ
77	3TX650	25m	4.0	J	500m	100m	55	4.0	30	100u	5.0	50m	10	200	1.2G			PL	T59	Ø
78	3TX850	25m	4 0	J	500m	100m	55	4.0	30	100u	5 0	50m	10	200	1.2G			PL	T59	Ø
79#	KT919V	25m	3.2	§J	200m		45			2.0m					1.3G§Δ				W94	E
80	2N5092	26m$	2.0 Ø	§A	1.0	500m	400	6.0	350	500nØ	10Ø	100m	15	250	50M§Δ	20			TO5	AØ
81	2N5095	26m$	2.0 Ø	§A	1.0	500m	500	6.0	400	500nØ	10Ø	100m	15	250	50M§Δ	20			TO5	AØ
82	2N5097	26m$	2.0 Ø	§A	1.0	500m	600	6.0	450	500nØ	10Ø	100m	15	250	50M§Δ	20			TO5	AØ
83	2N5098	26m$	2 0 Ø	§A	1.0	500m	700	6.0	500	500nØ	10Ø	100m	15	250	50M§Δ	20			TO5	AØ
84	2N5099	26m$	2 0 Ø	§A	1.0	500m	800	6.0	550	500nØ	10Ø	100m	15	250	50M§Δ	20			TO5	AØ
85#	2SC1464*	26m	4.0 Ø	§J	500m		50	3.5	25	250uØ	5.0Ø	200m	80 Ø		1.3G§			PE	TO39	A
86	MST5404	26m	1.0	§A	400m	200m	650	5.0	540	10u	10Ø	100m	20		50M§Δ	60		DM	TO5	
87	MST6604	26m	1 0	§A	400m	200m	800	5.0	660	10u	10Ø	100m	20		50M§Δ	60		DM	TO5	
88	PT1544	26m	4.0 Ø	§J	500m	200m	50	4.0	50 §	100uØ					250M*			PL	TO5	AØ
89	PT1545	26m	4.0 Ø	§J	500m	200m	50	4.0	50 §	100uØ					250M*			PL	TO5	AØ
90	SRS1004	26m	1.0	§J	400m	50m	100	6.0	100 §	3 0uØ	4.0Ø	50m	30		15M§Δ	30		EM	TO5	AØ
91	SRS2004	26m	1.0	§J	400m	50m	200	6.0	200 §	2.0uØ	4.0Ø	50m	20		15M§Δ	30		EM	TO5	AØ
92	SRS2504	26m	1.0	§J	400m	50m	250	6.0	250 §	2.0uØ	4.0Ø	50m	20		15M§Δ	30		EM	TO5	AØ
93	SRS2804S	26m	1.0	§J	400m	50m	340	5.0	280	2.0uØ	8.0Ø	200m	25		15M§Δ	30		EM	TO5	AØ
94	SRS3014	26m	1.0	§J	400m	50m	300	6.0	300 §	2.0uØ	4.0Ø	50m	30		15M§Δ	30		EM	TO5	AØ
95	SRS3204S	26m	1.0	§J	400m	50m	385	5.0	320	2.0uØ	8.0Ø	200m	25		15M§Δ	30		EM	TO5	AØ
96	SRS3504	26m	1.0	§J	400m	50m	350	6 0	350 §	2.0uØ	4.0Ø	50m	20		15M§Δ	30		EM	TO5	AØ
97	SRS3604S	26m	1.0	§J	400m	50m	420	5.0	360	2.0uØ	8.0Ø	200m	25		15M§Δ	30		EM	TO5	AØ
98	SRS4014	26m	1.0	§J	400m	50m	400	6.0	400 §	2.0uØ	4.0Ø	50m	30		15M§Δ	30		EM	TO5	AØ
99	SRS4014S	26m	1.0	§J	400m	50m	480	5.0	400	10uØ	10Ø	100m	20		15M§Δ	60		EM	TO5	AØ
100	SRS4404S	26m	1.0	§J	400m	50m	530	5.0	440	10uØ	10Ø	100m	20		15M§Δ	60		EM	TO5	AØ
101	SRS4504	26m	1.0	§J	400m	50m	450	6.0	450 §	2.0uØ	4.0Ø	50m	30		15M§Δ	30		EM	TO5	AØ
102	SRS4804S	26m	1.0	§J	400m	50m	580	5.0	480	10uØ	10Ø	100m	20		15M§Δ	60		EM	TO5	AØ
103	SRS5014	26m	1.0	§J	400m	50m	500	6.0	500 §	2 0uØ	5.0Ø	25m	30		15M§Δ	60		EM	TO5	AØ
104	SRS5504	26m	1.0	§J	400m	50m	550	6.0	550 §	10uØ	5.0Ø	25m	20		15M§Δ	60		EM	TO5	AØ
105	SRS6014	26m	1 0	§J	400m	50m	600	6.0	600 §	10uØ	5.0Ø	25m	30		15M§Δ	60		EM	TO5	AØ
106	SRS6504	26m	1.0	§J	400m	50m	650	6.0	650 §	10uØ	5.0Ø	25m	30		15M§Δ	60		EM	TO5	AØ
107	SRS7014	26m	1.0	§J	400m	50m	700	6.0	700 §	10uØ	5.0Ø	25m	30		15M§Δ	60		EM	TO5	AØ
108	SRS7504	26m	1.0	§J	400m	50m	750	6.0	750 §	10uØ	5.0Ø	25m	30		15M§Δ	60		EM	TO5	AØ
109	SRS8014	26m	1.0	§J	400m	50m	800	6.0	800 §	10uØ	5.0Ø	25m	30		15M§Δ	60		EM	TO5	AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	JAN2N3866	28m	1.0	§J	400m		60	3.5	30	20uΔ	5.0Ø	50m	15	200 #	500M§Δ	10			TO39	AØ
2	2N3866A	28m	5.0 Ø	§S	400m		55	3.5	30	100u#	5.0Ø	50m	25	200	800M§Δ	10			TO39	AØ
3	JAN2N3866A	28m	1.0	§J	400m		60	3.5	30	20uΔ	5.0Ø	50m	25	200 #	800M§Δ	10			TO39	AØ
4	2N3945	28m	5.0 Ø	§S	1.0		70	8.0	50		10Ø	150m	40	150	60M§Δ	3.3			TO5	AØ
5	2N3948	28m	5.0 Ø	§S	400m		36	3.5	20	100nØ	5.0Ø	50m	15		700M§Δ				TO39	A
6	2N4429	28m	5.0 Ø	§J	425m	150m	55 †	3.5†	35	1.0m#♦	5.0Ø	50m	20	200	700M§Δ				TO117	R
7	2N4924	28m	1.0	§S	200m		100	5.0	100	100nØ	10Ø	150m	40	200 #	100M§Δ				TO39	AØ
8	2N4925	28m	1.0	§S	200m		150	5.0	150	100nØ	10Ø	150m	40	200 #	100M§Δ				TO39	AØ
9	2N4926	28m	5.0 Ø	§S	50m		200	7.0	200	100nØ	10Ø	30m	20	200 #	30M§Δ				TO39	AØ
10	2N4927	28m	5.0 Ø	§S	50m		250	7.0	250	100nØ	10Ø	30m	20	200 #	30M§Δ				TO39	AØ
11	2N4976	28m	5.0 Ø	§J	400m	150m	55	3.5	30	5.0m#	5.0Ø	50m	20	250	1.0M§Δ				T66	
12	JAN2N5109	28m	1.0	§J	400m		40	3.0	20	20uΔ	15Ø	50m	40	150 #	1.2G§Δ			Ø	TO39	
13	2N5279	28m	1.0 Ø	§S	1.0	500m	400	7.0	300 ☑	20uØ	10Ø	20m	40	150	15M§Δ				TO5	AØ
14	2N5422	28m	5.0 Ø	§C	1.0	500m	36	4.0	18	100uØ	5.0Ø	500m	10	60	300M§	1.0			TO39	AØ
15	2N5481	28m	5.0 Ø	§S	200m	50m	50 †	3.0†	30	2.0m	5.0Ø	50m	20	250					T74	R
16	2N5527§	28m	5.0 Ø	§J	5 0	1.0	60	3.0	40	1 0m	5 0Ø	3.0	40	200 #	200M§Δ	3.7			R179u	AØ
17	2N5531§	28m	5.0 Ø	§J	5.0	1.0	90	3.0	75	1.0m	5.0Ø	3.0	30	150 #	200M§Δ	3.7			R179u	AØ
18	2N5535§	28m	50 Ø	§J	20	8.0	60	3.0	50	1.0m	5.0Ø	10	30	150 #	150M§Δ	6.2			TO61	AØ
19	2N5536§	28m	50 Ø	§J	20	8.0	60	3.0	50	1.0m	5.0Ø	10	30	150 #	150M§Δ	6.2			TO61	A
20	2N5537§	28m	50 Ø	§J	20	8.0	90	3.0	75	1.0m	5.0Ø	10	30	150 #		6.2			TO61	AØ
21	2N5538§	28m	50 Ø	§J	20	8.0	90	3.0	75	1.0m	5.0Ø	10	30	150 #		6.2			TO61	A
22	2N5687	28m	5.0 Ø	§S	500m		40 †	3.0†	20	1.0mΔ	12Ø	50m	15						TO39	AØ
23	2N5698	28m	5.0 Ø	§S	500m		40 †	3.0†	18	1.0mΔ	12Ø	40m	30						TO131	R
24	2N5766	28m	5.0 Ø	§S	200m	40m	55 †	3.5†	25	3.0mØ	5.0Ø	50m	20 †						T77	Z
25	2N5859†	28m	1.0	§J	2.0		80	6.0	40	250nØ	1.0Ø	1.0	15	100	250M§Δ	700m	30n☑		TO39	AØ
26	2N5860	28m	1.0	§J	2.0		90	7.0	45	250nØ	1.0Ø	500m	35	100	250M§Δ	700m	18n☑		TO39	AØ
27	2N5861	28m	1.0	§J	2.0		100	6.0	50	300nØ	1.0Ø	500m	25	100	200M§Δ	1.0	18n☑		TO39	AØ
28	2N5913	28m§	3.5 Ø	§S	330m		36 †	3.5†	14	300uΔ♦									TO39	AØ
29	2N5922	28m	5.0 Ø	§S	425m		55 †	3.5†	35	4.0m§†									T75d	R
30	2N5944	28m	5.0 Ø	§S	400m		36 †	4.0†	16	1.0mØ♦	5.0Ø	100m	20						T90	R
31	2N6255	28m	5.0 Ø	§S	1.0		36 †	4.0†	18	250uØ♦	5.0Ø	250m	5.0						TO39	AØ
32	2N6527	28m	5.0 Ø	§S	1.0 †		50 †	3.5†	50 §	1.0m§♦	5.0Ø	100m	15						W24	A§
33♦#	2SC890	28mØ	3.0 Ø	§J	400m		40	3.0	20	1.0uØ	10Ø	100m	20 #		600M§Δ			PE	TO39	A
34#	2SC908	28m	860m	§J	500m		40	4.0	40 §	50uØ	10Ø	100m	10 #	180 #	800M§			PE	TO39	A
35♦#	2SC1252	28m	5.0 Ø	§J	300m		45	3.0	25	100nØ	10Ø	50m	20 #	200 #	1.4G§Δ			E	TO39	A
36♦#	2SC1253	28m	5.0 Ø	§J	300m		45	3.0	25	100nØ	10Ø	50m	20 #	200 #	1.8G§Δ			E	TO39	A
37#	2SC1256	28m§	3.0 §	§J	500m		36	4.0	18	1.0uØ	10Ø	300m	20 #		500M§Δ			E	TO39	A
38#	2SC1365	28m	5.0 Ø	§J	300m		45	3.0	25	100nØ	10Ø	50m	20	200 #	1.2G§Δ			EØ	TO39	AØ
39♦#	2SC1950*	28m	5.0 Ø	§J	200m		28	3.0	14	500nØ	6.0Ø	100m	20	200	4.0G§			E	W101	A
40#	2SC1952	28m	5.0 Ø	§J	300m		45	3.0	25	100nØ	10Ø	50m	20	200 #	2.0G§			EØ	TO39	A
41♦#	2SC2093	28m	5.0 Ø	§J	200m		28	3.0	14	500nØ	6.0Ø	100m	20	200 #	5.0G#			E	W101	AØ
42	40082	28m	5.0 Ø	§J	1.5			2.5		10u					27M*			DPL	TO39	AØ
43	40309	28m	1.0	§J	700m	200m		2.5	18	250nØ	4.0Ø	50m	70	350	100M§			DPL	TO5	AØ
44	40309L	28m	1.0	§J	700m	200m		2.5	18 ☑	250nØ	4.0Ø	50m	70	350	100M§			D	TO5	AØ
45	40309S	28m	1.0	§J	700m	200m		2.5	18 ☑	250nØ	4.0Ø	50m	70	350	100M§			D	TO39	AØ
46	40311	28m	1.0	§J	700m	200m		2.5	30	250nØ	4.0Ø	50m	70	350	100M§			DPL	TO5	AØ
47	40311L	28m	1.0	§J	700m	200m		2.5	30 ☑	250nØ	4.0Ø	50m	70	350	100M§			D	TO5	AØ
48	40311S	28m	1.0	§J	700m	200m		2.5	30 ☑	250nØ	4.0Ø	50m	70	350	100M§			D	TO39	AØ
49	40314	28m	1.0	§J	700m	200m		2.5	40	250nØ	4.0Ø	50m	70	350	100M§			DPL	TO5	AØ
50	40314L	28m	1.0	§J	700m	200m		2.5	40 ☑	250nØ	4.0Ø	50m	70	350	100M§			D	TO5	AØ
51	40314S	28m	1.0	§J	700m	200m		2.5	40 ☑	250nØ	4.0Ø	50m	70	350	100M§			D	TO39	AØ
52	40315	28m	1.0	§J	700m	200m		2.5	35	250nØ	4.0Ø	50m	70	350	100M§			DPL	TO5	AØ
53	40315L	28m	1.0	§J	700m	200m		2.5	35 ☑	250nØ	4.0Ø	50m	70	350	100M§			D	TO5	AØ
54	40315S	28m	1.0	§J	700m	200m		2.5	35 ☑	250nØ	4.0Ø	50m	70	350	100M§			D	TO39	AØ
55	40317	28m	1.0	§J	700m	200m		2.5	40	250nØ	4.0Ø	10m	40	200				DPL	TO5	AØ
56	40317L	28m	1.0	§J	700m	200m		2.5	40 ☑	250nØ	4.0Ø	10m	40	200				D	TO5	AØ
57	40317S	28m	1.0	§J	700m	200m		2.5	40 ☑	250nØ	4.0Ø	10m	40	200				D	TO39	AØ
58	40320	28m	1.0	§J	700m	200m		2.5	40	250nØ	4.0Ø	10m	40	200				DPL	TO5	AØ
59	40320L	28m	1.0	§J	700m	200m		2.5	40 ☑	250mØ	4.0Ø	10m	40	200				D	TO5	AØ
60	40320S	28m	1.0	§J	700m	200m		2.5	40 ☑	250mØ	4.0Ø	10m	40	200				D	TO39	AØ
61	40323	28m	1.0	§J	700m	200m		2.5	18	250nØ	4.0Ø	50m	70	350	100M§			DPL	TO5	AØ
62	40323L	28m	1.0	§J	700m	200m		2.5	18 ☑	250nØ	4.0Ø	50m	70	350	100M§			D	TO5	AØ
63	40323S	28m	1.0	§J	700m	200m		2 5	18 ☑	250nØ	4.0Ø	50m	70	350	100M§			D	TO39	AØ
64	40360	28m	1.0	§J	700m	200m		4.0	70 ☑	1.0uΔ	4.0Ø	10m	40	200	100M§	8.0		D	TO5	AØ
65	40360L	28m	1.0	§J	700m	200m		4.0	70 ☑	1.0uΔ	4.0Ø	10m	40	200	100M§	9.3		D	TO5	AØ
66	40360S	28m	1.0	§J	700m	200m		4.0	70 ☑	1.0uΔ	4.0Ø	10m	40	200	100M§	9.3		D	TO39	AØ
67	40361	28m	1.0	§J	700m	200m		4.0	70 §	250uΔ	4.0Ø	50m	70	350	100M§	8.0		D	TO5	AØ
68	40361L	28m	1.0	§J	700m	200m		4.0	70 §☑	1.0u*	4.0Ø	50m	70	350	100M§	9.3		D	TO5	AØ
69	40361S	28m	1.0	§J	700m	200m		4.0	70 §☑	1.0u*	4.0Ø	50m	70	350	100M§	9.3		D	TO39	AØ
70♦	40366	28m	1.0	§J	1.0		120	7.0	65	2.0nØ	10Ø	150m	40	120 #		3.3		DΔ	TO5	AØ
71	40367	28m	1.0	§J	1.5	1.0	100	12	55	4.0nØ	4.0Ø	200m	35	100		7.0		DΔ	TO5	AØ
72	40385	28m	1.0	§J	1.0		450	7.0	350	20uΔ	10Ø	20m	40	160		10		DΔ	TO5	AØ
73	40407	28m	1.0	§J	700m	200m		4.0	50	250n	10Ø	1.0m	40	200	100M§			D	TO5	AØ
74	40407L	28m	1.0	§J	700m	200m		4.0	50 ☑	250n	10Ø	1.0m	40	200	100M§			D	TO5	AØ
75	40407S	28m	1.0	§J	700m	200m		4.0	50 ☑	250n	10Ø	1.0m	40	200	100M§			D	TO39	AØ
76	40408	28m	1.0	§J	700m	200m		4.0	90	1.0uΔ	4.0Ø	10m	40	200	100M§	9.3		D	TO5	AØ
77	40408L	28m	1.0	§J	700m	200m		4.0	90 ☑	1.0uΔ	4.0Ø	10m	40	200	100M§	9.3		D	TO5	AØ
78	40408S	28m	1.0	§J	700m	200m		4.0	90 ☑	1.0uΔ	4.0Ø	10m	40	200	100M§	9.3		D	TO39	AØ
79	40539L	28m	1.0	§J	700m			5.0	55 §☑	10u*	4.0Ø	500m	15	90	100M§	4.0		PL	TO5	AØ
80	40539S	28m	1.0	§J	700m			5.0	55 §☑	10u*	4.0Ø	500m	15	90	100M§	4.0		PL	TO39	AØ
81	40578	28m	5.0 Ø	§J	400m		55	3.5		100uΔ									TO39	
82	40581	28m	5 0 Ø	§J	1.5			2.5		10u					27M*			DPL	TO39	AØ
83	40611	28m	1.0	§A	700m	200m		2.5	25 ☑	500n	4.0Ø	50m	70	500				D	TO5	AØ
84	40616	28m	1.0	§A	700m	200m		2.5	32 ☑	500n	4.0Ø	50m	70	500				D	TO5	AØ
85	40616L	28m	1.0	§A	700m	200m		2.5	32 ☑	500n	4.0Ø	50m	70	500					TO5	AØ
86	40616S	28m	1.0	§A	700m	200m		2.5	32 ☑	500n	4.0Ø	50m	70	500					TO39	AØ
87	40635	28m	1.0	§A	700m	200m		7.0		10u*	4.0Ø	150m	50	250				PL	TO5	AØ
88	40635L	28m	1.0	§A	700m	200m		7.0	75 §☑	10u*	4.0Ø	150m	50	250					TO5	AØ
89	40635S	28m	1.0	§A	700m	200m		7.0	75 §☑	10u*	4.0Ø	150m	50	250					TO39	AØ
90	40953*	28m	3.5 Ø§	§J	330m			3.5	14	10m§♦					156M#			PE	TO39	G
91	40975*	28m	3.5 §	§J	400m			3.5	30	100u§♦					118M#			PE	TO39	G
92#	BC140†	28m	3.7 Ø	§J	1.0	100m	80	7.0	40	100u§	1.0Ø	100m	63	250 *	50M§Δ		250nØ	E	TO39	AØ
93#	BC141†	28m	3.7 Ø	§J	1.0	100m	100	7.0	60	100u§	1.0Ø	100m	63	250 *	50M§Δ		250nØ	E	TO39	AØ
94#	BFR97	28m	5.0 Ø	§J	400m		55	3.5	30	20uΔ	5.0Ø	50m	10 †	200 †	500m§Δ				TO39	AØ
95♦#	BFT98	28m	3.5 Ø	§J	250m			3.0	20		15Ø	1.0m	25		3.0G§			PE	TO117	R
96#	BFY44	28m	5.0 Ø	§J	1.0	200m	80	4.0	60	50nØ	5.0	500mΔ	20 Ø		210M§	200m		PE	TO39	
97#	BFY70	28m	5.0 Ø	§J	1.0	200m	60	4.0	40	50nØ	5.0	500mΔ	5.0		210M§	200m		PE	TO39	
98#	BSS42†	28m	1.0	§J	1.5	200m	120	6.0	120 *	100nØ	5.0Ø	10m	40	60 Ø	100M§		40nØ	PE	TO39	AØ
99#	BSW29	28m	1.0	§J	1.0		40	4.0	30	700nØ	2.0Ø	500m	35		200M§	350m	40nØ	PE	TO5	AØ
100#	BSX45-6†	28m	5.0 Ø	§J	1.0	200m		7.0	40	30n§	1.0Ø	100m	40	100	50M§	1.0	15n	PEØ	TO39	AØ
101#	BSX45-10†	28m	5.0 Ø	§J	1.0	200m		7.0	40	30n§	1.0Ø	100m	63	160	50M§	1.0	15n	PEØ	TO39	AØ
102#	BSX45-16†	28m	5.0 Ø	§J	1.0	200m		7.0	40	30n§	1.0Ø	100m	100	250	50M§	1.0	15n	PEØ	TO39	AØ
103#	BSX46-6†	28m	5.0 Ø	§J	1.0	200m		7.0	60	30n§	1.0Ø	100m	40	100	50M§	1.0	15n	PEØ	TO39	AØ
104#	BSX46-10†	28m	5.0 Ø	§J	1.0	200m		7.0	60	30n§	1.0Ø	100m	63	160	50M§	1.0	15n	PEØ	TO39	AØ
105#	BSX46-16†	28m	5.0 Ø	§J	1.0	200m		7.0	60	30n§	1.0Ø	100m	100	250	50M§	1.0	15n	PEØ	TO39	AØ
106#	BSX47-6	28m	5.0 Ø	§J	1.0	200m		7.0	80	30n§	1.0Ø	100m	40	100	50M§	1.8	15n	PEØ	TO39	AØ
107#	BSX47-10	28m	5.0 Ø	§J	1.0	200m		7.0	80	30n§	1.0Ø	100m	63	160	50M§	1.8	15n	PEØ	TO39	AØ
108#	BSX62	28m	5.0 Ø	§J	3.0	500m		5.0	40	100n§Ø					70M§		1.5u§	PEΔ	TO39	AØ
109#	BSX62-6	28m	5.0	§J	3.0	500m	60	5.0	40	100m§	1.0Ø	1.0	40	100	70M§		300n	PEΔ	TO39	A
110#	BSX63†	28m	7.7 *	§J	3.0	500m		5.0	60	100n§	1.0Ø	1.0	63	160 *	100M§			PE	TO39	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	TYPE No.	MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AE XM P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	LC EO AD DE
1	40912	33mØ	5 8	§J	3.0	2 0	140	7.0	120	2.0m#♦	4 0Ø	500m	20	100	800k§△	2.4		H	F18	CØ
2	40913	33mØ	5 8	§J	3.0	2.0	170	7.0	150	50u#♦	2 0Ø	1.0	20	60	800k§△	500m		H	F18	CØ
3#	BF257△	33m	5.0 Ø	§J	100m		160	5.0	160	50nØ	10Ø	30m	25		90M§	33		PE	T039	AØ
4#	BF258△	33m	5.0 Ø	§J	100m		250	5.0	250	50nØ	10Ø	30m	25		90M§	33		PE	T039	AØ
5#	BF259△	33m	5.0 Ø	§J	100m		300	5 0	300	50nØ	10Ø	30m	25		90M§	33		PE	T039	AØ
6#	BFR57	33m	5 0 Ø	§J	100m		160	5.0	160	50n△	10Ø	30m	25		90M§			PE	T039	AØ
7#	BFR58	33m	5.0 Ø	§J	100m		250	5.0	250	50n△	10Ø	30m	25		90M§			PE	T039	AØ
8#	BFR59	33m	5.0 Ø	§J	100m		300	5.0	300	50n△	10Ø	30m	25		90M§			PE	T039	AØ
9#	BFS89	33m	5.0 Ø	§J	150m		300	5.0	300	50nØ	10Ø	50m	25		90M§	33		PEØ	T039	AØ
10♦#	BFT99	33m	5.0 Ø	§J	500m			3.0	20		15Ø	1.0m	25		3.0G§			PE	T0117	R
11#	BFX51	33m	6.0 △	§S	1.0		80	4.0	80 *	10uØ	10Ø	100m	15	40 Ø	180M§	1.8		PL	T05	Ø
12	MSC1002*	33m	5.8 Ø	§J	250mt		50 †	3 5†	50 §	500uØ♦	15Ø	50m	15	120	1.0G#			E	T96	A
13	MSC2100*	33m					40 †	3.0†	15		5 0Ø	100m	20	120	1.6G§				W77	E
14	MSC80040*	33m					40 †	3.0†	15		5.0Ø	100m	20	120	1.6G§				T95	R
15	MSC80090*	33m	5.8 Ø	§J	250mt		50 †	3 5†	50 §	500uØ♦	15Ø	50m	15	120	1.0G#			E	T95	R
16	MSC80118	33m	2.0 ▼%	§J	250mt		50 †	3.5†	50 §	500uØ♦	15Ø	50m	15	120	1 0G#			E	W77	F
17	PE7058	33m	1.2	§J	2.0 #		220	7.0	220	100nØ	20Ø	30m	40	150 #	90M§	50		DPE	T092	A
18	PE7059	33m	1.2	§J	2 0 #		300	7.0	300	100nØ	20Ø	30m	40	150 #	80M§	50		DPE	T092	A
19#	ZT90	33m	1.0	§J	1.0 #		60	6.0	60	100n	10Ø	200m	60	200 #	300M§	3.5		PLØ	T05	AØ
20#	ZT91	33m	1.0	§J	1.0 #		120	6.0	100	1.0uØ	10Ø	200m	40	120 #	250M§	6.0		PLØ	T05	AØ
21#	ZT92	33m	1.0	§J	1.0 #		120	6.0	100	1.0uØ	10Ø	200m	65	200 #	250M§	6.0		PLØ	T05	AØ
22#	ZT93	33m	1.0	§J	1.0 #		120	6 0	80	100nØ	10Ø	150m	40	120 #	300M§	3.3		PLØ	T05	AØ
23#	ZT94	33m	1.0	§J	1.0 #		60	6.0	45	1.0uØ	10Ø	10m	20 #		300M§	3.5		PLØ	T05	AØ
24#	ZT95	33m	1.0	§J	1.0 #		60	6.0	60	100n	10Ø	350m	30	200 #	300M§	3.4		PLØ	T05	AØ
25#	ZT3440	33m#	1.0 Ø	§J	1.0	500m	300	7 0	250	20uØ	10Ø	20m	40	160	20M§△			D△	T05	Ø
26	2N5334†	34m	6 0 Ø	§J	3 0	500m	60	8 0	60	5.0u	2.0Ø	1.0	30	150 #	40M§△		50n		T039	AØ
27	2N5335†	34m	6.0 Ø	§J	3.0	500m	80	8.0	80	5.0u	2.0Ø	1.0	30	150 #	40M§△		50n		T039	AØ
28	2N5336†	34m	6.0 Ø	§J	5 0	1 0	80	6.0	80	10u	2.0Ø	2.0	30	120	30M§△		100n		T039	AØ
29	2N5337†	34m	6.0 Ø	§J	5.0	1 0	80	6 0	80	10u	2.0Ø	2.0	60	240	30M§△		100n		T039	AØ
30	2N5338†	34m	6.0 Ø	§J	5.0	1.0	100	6.0	100	10u	2.0Ø	2 0	30	120	30M§△		100n		T039	AØ
31	2N5339†	34m	6.0 Ø	§J	5.0	1.0	100	6.0	100	10u	2 0Ø	2.0	60	240	30M§△		100n		T039	AØ
32♦#	2SC1797	34m	6.0 Ø	§J	300m		50	3 5	50 §	200uØ	10Ø	150m	20	200				E	W77	F
33#	2SC2065*	34m	6.0 Ø	§J	250m		40	3 0	18	10uØ	10Ø	80m	20	200 #	3.2G§			E	T136	S
34#	BFT32	34m	1.0	§A	5.0		80	5.0	60	100nØ	10Ø	150m	50	300 #	100M§△	2.0		PE	T039	AØ
35#	BFT33	34m	1.0	§A	5.0		100	5.0	80	100nØ	10Ø	150m	50	250 #	100M§△	2.0		PE	T039	AØ
36#	BFT34	34m	1.0	§A	5.0		120	5.0	100	100nØ	10Ø	150m	50	200 #	100M§△	2.0		PE	T039	AØ
37	PT6618	34mØ	6.0 Ø	§S	400m		55	3.5	30											
38	TIP501†	34m	1.0	§J	3.0 †	500m	40 †	4 0	40	10u	1.5Ø	1 0	25	180 #	60M§△		100nØ☑		T039	AØ
39	TIP502†	34m	1.0	§J	3.0 †	500m	60 †	4.0	60	10u	1.5Ø	1.0	25	180 #	60M§△		100nØ☑		T039	AØ
40	MRF313	35m	2.5 Ø	§S	150m		40	3.0	30	1 0m△♦	10Ø	100m	20	150	2.5G§				W66	R
41	MRF313A	35m	2.5 Ø	§S	150m		40	3.0	30	1.0m△♦	10Ø	100m	20	150	2.5G§				T123	R
42	MRF626	35m	2.5 Ø	§S	150m		30 †	3.5†	20	1.0m△♦	10Ø	50m	15	150	2.7M§				T123	R
43	MRF627	35m	2.5 Ø	§S	150m		30 †	3.5†	20	1 0m△♦	10Ø	50m	15	150	2.7M§				W66a	R
44	2N2657†	40m$	1.2	§J	5.0	500m	80	7.0	60	100nØ	2.0Ø	1.0	40	120 #	20M§△		80n		T05	AØ
45	2N2658†	40m$	1.2	§J	5.0	500m	100	7.0	80	100nØ	2.0Ø	1.0	40	120 #	20M§△		80n		T05	AØ
46	2N2949	40m	6.0 Ø	§C	700m	100m	60 †	3.0†	60 Ø	100nØ♦	2.0Ø	40m	5.0	100 #	100M§△				R70	AØ
47	2N2950	40m	6.0 Ø	§C	700m	100m	60 †	3.0†	60 Ø	100nØ♦	2.0Ø	40m	5 0	100 #					T30	A
48	2N3296	40m	6.0 Ø	§C	700m	100m	60 †	3.0†	60 Ø	100nØ♦	2.0Ø	40m	5.0	50 #	50M§△				T30	A
49	2N3553	40m	7.0 Ø	§C	350m	100m	65 †	4.0†	40	1.0m#	5.0Ø	250m	15	150	350M§△	4.0			T039	AØ
50	JAN2N3553	40m	1.0	§J	1.0		65	4.0	40	200u†Ø	5.0Ø	150m	15	150 #	50M§△				T039	AØ
51	2N3593	40m	1.0	§C	500m	250m	200	10	200 §	1.0uØ	8.0Ø	200m	30	90 #	15M§△				T20	Ø
52	2N3594	40m	1.0	§C	500m	250m	200	10	200 §	1.0uØ	8.0Ø	200m	75	150 #	15M§△				T20	Ø
53	2N3916	40m	5 0 Ø	§J	150m	150m	150	5.0	150	1.0m#	10Ø	150m	40	200 #	50M§△				F16	Ø
54	2N3924	40m	7.0 Ø	§S	500m		36	4.0	18	100uØ					250M§△				T039	AØ
55	2N4349†	40m	7.0 Ø	§J	2.0		65	5.0		100u#	1.0	1.0	20		350M§	500m	130n§	PE	T05	Ø
56	2N4350	40m	7.0 Ø	§J	350m	100m	65	4.0	40	100u#	5.0Ø	350m	10	200	300M§△	2.9			T05	AØ
57	2N4862	40m$	4.0 Ø	§J	2.0	500m	140	8.0	120	100nØ	5.0Ø	500m	50	150 #	50M§△				T046	A
58	2N4863	40m$	4.0 Ø	§J	2.0	500m	140	8 0	120	100nØ	5.0Ø	500m	50	150 #	50M§△				T05	A
59	2N5090	40m$	4.0 Ø	§J	400m	400m	55 †	3.5†	30	20u△♦	5.0Ø	50m	10	200	500M§△	10			T060	A
60	2N5102	40m	70 Ø	§S	3.3	1.0	90	4.0	50 §		4.0Ø	500m	10	100	150M§△				T060	A☑
61	2N5148	40m	1.0	§J	2.0	1.0	100 †	6.0†	80	1.0m#♦	5.0Ø	1.0	30	90 #	50M§△				T039	AØ
62	2N5150	40m	1.0	§J	2.0	1.0	100 †	6.0†	80	1.0m#♦	5.0Ø	1.0	70	200 #	60M§△				T039	AØ
63	2N5252	40m	1.0	§S	1.0	250m	300	6.0	300	10u	10Ø	100m	40	120	30M§△	5.0			T039	AØ
64	2N5253	40m	1.0	§S	1.0	250m	300	6.0	300	10u	10Ø	100m	80	250	30M§△	5.0			T039	AØ
65	2N6376†	40m	1.0	§S	1.5		75	6.0	40	200nØ	1.0Ø	500m	30	90	300M§△	2.5	20nØ☑		R169	AØ
66#	2SC547	40m	6.0 Ø		1.0		65	4.0	40	100u#	3.0Ø	150m	10		400M§	4.0		PE	T039	
67#	2SC597	40m	6.0 Ø	§J	1.0		65	4 0	40		28Ø	100m	30 †		400M§			PE	R179m	AØ
68#	2SC911	40m	1.7	§J	500m		40	4.0	40 §	50uØ	10Ø	100m	10 #	180 #	800M§			PE†	W43	R
69#	2SC911A	40m	1.7	§J	500m		40	4.0	40 §	10uØ	10Ø	100m	20 #	180 #	800M§			PE†	W43	R
70#	2SC1017	40m	4.0 Ø	♦J	1.0		75	4.0	35	10uØ	10Ø	100m	10 #		200M§			PE†	B15a	P
71#	2SC1018	40m	4.0 Ø	♦J	1.0		75	4.0	35	10uØ	10Ø	100m	10 #		200M§			PE†	B15a	P
72♦#	2SC1043	40m	6.0 Ø	§J	300m		45	3.0	25	100nØ	10Ø	100m	20 #	200 #	1.8G§△			E	T136a	S
73♦#	2SC1251	40m	7.0 Ø	§J	300m		45	3.0	25	100nØ	10Ø	50m	20 #	200 #	1 8G§△			E	T136	S
74#	2SC1530	40m	5.0 Ø	§J	350m		50	4.5	50 §	100uØ	10Ø	100m	10	180 #	2.0G§			PE		
75♦#	2SC1594	40m	7.0 Ø	§J	200m		35	3.0	18	10uØ	10Ø	100m	20	200 #	2.5G§			EØ	T136	S
76♦#	2SC1595	40m	7.0 Ø	§J	300m		35	3.0	22	10uØ	10Ø	100m	20	200 #	2.5G§			E†	T136	S
77#	2SC1606	40m	6.0 Ø	§J	600m		40	4.0	18	100uØ	10Ø	100m	10	180 #	1.0G§			PE	T05	
78♦#	2SC1673*	40m	7.0 Ø	§J	300m		35	3 0	20	5.0uØ	10Ø	100m	20	200	2 5G§			E	T136	S
79▼#	2SC1970	40m	1.0	§J	600m		40	4.0	17	100uØ	10Ø	100m	10	180				PE†	B26	DØ
80▼#	2SC1977	40m	5.0 Ø	§J	1.0 #		36	4.0	18	50uØ	13Ø	100m	20	50 Ø	600M§				T0126	B
81▼#	2SC2028	40m	5.0 Ø	§J	1.5		80	6.0	50	1.0uØ	5.0Ø	100m	200 Ø		250M§			PE	T0126	B
82#	2SC2066*	40m	7.0 Ø	§J	450m		35	3.0	18	20uØ	7.0Ø	100m	15	200 #	2.0G§			E	T136	S
83#	2SC2091*	40m	5.0 Ø	§J	1.0		75	5.0	40	1.0uØ	10Ø	500m	20	200 #	150M§△	1.0 #		DE	T0126	B
84#	2SD658H	40m	50 Ø	§J	5.0		1.5k	6.0	600	100u	10Ø	100m	6.0	60		1.2	7.0uØ	D△	T03	AØ
85	3TC613	40m	7.0	J	500m	100m	50	4.0	50	100u	5.0	100m	10	150	500M			PL	T039	Ø
86	3TX614	40m	7.0	J	500m	100m	50	4.0	50	100u	5 0	200m	10	150	500M			PL	T039	Ø
87	3TX651	40m	7.0	J	1.0	200m	55	4.0	30	100u	5.0	100m	10	200	1.2G			PL	T59	☑
88	3TX851	40m	7.0	J	1.0	200m	55	4.0	30	100u	5.0	100m	10	200	1.2G			PL	T59	☑
89	40280	40m	7.0 Ø	§J	500m		36	4.0	18	100u△					550M§			PE	T039	AØ
90	40290	40m	7.0 Ø	§J	400m			4.0	50 #*	100u△					500M§			PE	T039	AØ
91	40305	40m	7.0 Ø	§J	1.0		65	4.0	40	100n△	5.0Ø	150m	10					PE	T039	AØ
92	40392	40m	7.0 Ø	§J	700m		60	5.0	40 ☑	250n♦Ø	10Ø	150m	50	250 #	100M§△	9.3		DPL	F20a	A
93	40423	40m#	3.8 Ø	§A	150m	150m	300	2.0		100u	10Ø	50m	50	250	25M§				F42	AØ
94	40425	40m#	3.8 Ø	§A	150m	150m	300	2 0	300 #	100u	10Ø	50m	30	150	25M§				F42	AØ
95	40427	40m#	3 8 Ø	§A	150m	150m	300	2.0		100u	10Ø	50m	20	100	25M§				F42	AØ
96	40544	40m	7.0 Ø	§J	700m			5.0	50 §	10u*	4.0Ø	50m	35	200	100M§	6.3		DPL	F16	AØ
97	40544L	40m	7.0 Ø	§J	700m			5 0	50 §☑	10u*	4.0Ø	50m	35	200	100M§			PL	F16	AØ
98	40544S	40m	7.0 Ø	§J	700m			5.0	50 §☑	10u*	4.0Ø	50m	35	200	100M§			PL	F16b	AØ
99	40605	40m	1.0	§J	330m		65	4.0	* 40	100n△					350M§△	4.0		PE	T039	AØ
100	40976*	40m	5.0 §	§J	500m			3.5	30	1.0m§♦					118M#			PE	T039	G
101#	BC300	40m	7.0	#C	1 0		130	7.0	130 Ø	10uØ	10Ø	150m	40	140	120M§			PL△	T039	
102#	BC301	40m	6.0 Ø	§J	1 0 #		90	7.0	60	20nØ	10Ø	150m	40	240	120M§			PE△	T039	AØ
103#	BC302	40m	6.0 Ø	§J	1.0 #		60	7 0	45	20nØ	10Ø	150m	40	240	120M§			PE△	T039	AØ
104	BF336	40m	3.0 Ø	§J	100m	20m#	185	5 0	180	100u*	10Ø	30m	20	60	130M§			PL	T039	A
105	BF337	40m	3.0 Ø	§J	100m	20m#	250	5.0	200	100u*	10Ø	30m	20	60	130M§			PL	T039	A
106	BF338	40m	3.0 Ø	§J	100m	20m#	300	5.0	225	100u*	10Ø	30m	20	60	130M§			PL	T039	A
107#	BFR63	40m☑	3.5 Ø	§J	200m		40	3.5	25	10uØ	5.0Ø	50m	25		1.1G§	7.5			T89	R
108#	BFR64	40m☑	3 5 Ø	§J	200m		40	3.5	25	10uØ	5.0Ø	50m	25		1.2G§	7.5			T89	R
109	BLX65	40m	3.0 Ø	§J	700m		36	4.0	18		5.0Ø	100m	10	40 Ø	1.4G§	1.0			T039	AØ
110	BLY33	40m	5.0 Ø	§J	500m			4.0	33	5.0m§	5.0Ø	200m	10	60 Ø	450M§				T039	AØ

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1#	2SC1355	46m	7.0 Ø	§J	700m		40	3.5	35 §	100uØ	5.0Ø	200m	80 Ø		1.8G§			PE	T129	GE
2#	2SC1465*	46m	7.0 Ø	§J	500m		50	3.5	25	250uØ	5.0Ø	200m	80 Ø		1.6G§			PE	W80	V
3#	2SC1533*	46m	7.0 Ø	§J	500m		45	3.5	23	100uØ	5.0	200m	50 Ø		1.8G§			PE	T129a	GE
4#	2SC1561*	46m	7.0	§J	500m		55	3.5	35	100uØ	5.0Ø	200m	50 Ø		1.8G§			PE	T129a	GE
5#	2SC1821*	46m	7.0	§J	500m		55	3.5	35	100uØ	5.0Ø	200m	50 Ø					PE	T129a	GE
6#	BLX92	46m§	6.0 Ø§	§J	700m		65	4.0	33		5.0Ø	100m	10	40 Ø	1.2G§	1.7		PE	T84	GJ
7▼	HSE904-RT	48m	6.0 Ø	§J			300	4.0	300	100u	10Ø	50m	30		5.0M§△				T066	CØ
8	2N2485	50m	8.8 Ø	§S	1.0	100m	120	2.0	120	500u♦	10Ø	500m	10		100M§△				T05	AØ
9	2N2486	50m	8.8 Ø	§S	1.0	100m	140	2.0	140	500u♦	10Ø	500m	10		100M§△				T05	AØ
10	JAN2N2631	50m	8.8 Ø	§J	1.5		80	4.0	60	100nØ	10Ø	300m	30	150 #	150M§△	670m			R179	
11	2N2650	50m	8.7 Ø	§S	1.0	100m	140	2.0	140	500u♦	10Ø	500m	10		100M§△				T05	AØ
12	2N2876	50m	18 Ø	§J	2.5		80	4.0	60	100nØ					200M§			PL	T060	A
13	2N2911	50m$	5.0 Ø	§C	3.0	1.0	150	10	125		2.0Ø	1.0	20	60	1.0M				T05	AØ
14	2N3262†	50m	1.0	§J	1.5		100	4.0	80	100n	4.0Ø	500m	40		150M§△	600m	20mØ	PLD	T039	AØ
15	2N3619	50m	7.5 Ø	§J	2.5	500m	75	4.0	40	25uØ	5.0Ø	1.0	40 #		200M§△				R50	
16	2N3620	50m	7.5 Ø	§J	5.0	1.0	75	4.0	40	25uØ	5.0Ø	1.0	40 #		200M§△				T27	
17	2N3623	50m	7.5 Ø	§J	2.5	500m	75	4.0	40	1.0uØ	5.0Ø	1.0	40 #		200M§△				R50	
18	2N3624	50m	7.5 Ø	§J	5.0	1.0	75	4.0	40	1.0uØ	5.0Ø	1.0	40 #		200M§△				T27	
19	2N3627	50m	7.5 Ø	§J	2.5	500m	100	4.0	50	1.0uØ	5.0Ø	1.0	40 #		200M§△				R50	
20	2N3628	50m	7.5 Ø	§J	5.0	1.0	100	4.0	50	1.0uØ	5.0Ø	1.0	40 #		200M§△				T27	
21	2N3675†	50m	8.8 Ø	§C	3.0	1.0	90	7.0	55	5.0m#	1.0Ø	1.0	12	60	1.0M§△	800m	5.0u		T05	Ø
22	2N3676†	50m	8.8 Ø	§C	3.0	1.0	90	7.0	90	5.0m#	1.0Ø	1.0	12	60	1.0M§△	800m	5.0u		T05	Ø
23	2N3928†	50m§	5.0 Ø	§J	3.0	500m	80 †	4.0†	40	1.0m#♦	10Ø	1.5	20	300 #	200M§△		30nØ		R179w	AØ
24♦	2N4054	50m§	4.0 Ø	§C	100m		300	7.0	300	100u	10Ø	50m	30	90	15M§△	67			B15	L
25♦	2N4055	50m§	4.0 Ø	§C	100m		250	7.0	250	100u	10Ø	50m	30	90	15M§△	67			B15	L
26♦	2N4056	50m§	4.0 Ø	§C	100m		200	7.0	200	100u	10Ø	50m	30	90	15M§△	67			B15	L
27♦	2N4057	50m§	4.0 Ø	§C	100m		150	7.0	150	100u	10Ø	50m	30	90	15M§△	67			B15	L
28	2N4132	50m	7.5 Ø	§J	600m	100m	90	5.0	80	10uØ	5.0Ø	200m	10	80 #	200M§△				T037	AØ
29	2N4150†	50m$	5.0 Ø	§J	5.0	2.0	100	5.0	80	100nØ	5.0Ø	5.0	40	120 #	15M§△		200n		T05	AØ
30	JAN2N4150†	50m	1.5	§A	10		100	7.0	70	100nØ	5.0Ø	5.0	40	120 #	15M§△		500nØ		T05	A
31	2N4225†	50m		§J	3.0	.50	80	6.0	40	1.0m♦	5.0Ø	1.0	40	150	150M§△	3.3	.03u		R179w	
32	2N4226†	50m		§J	3.0	.50	100	6.0	60	1.0m♦	5.0Ø	1.0	40	150	150M§△	3.3	.03u		R179w	
33	2N5237†	50m$	5.0 Ø	§J	5.0	2.0	150	5.0	120	10u#	5.0Ø	5.0	40	120 #	50M§△		500n		T05	AØ
34	JAN2N5237†	50m	1.5	§A	10		150	7.0	120	100nØ	5.0Ø	5.0	40	120 #	15M§△		500nØ		T05	A
35	2N5238†	50m$	5.0 Ø	§J	5.0	2.0	200	5.0	170	10u#	5 0Ø	5 0	40	120 #	50M§△		500n		T05	AØ
36	JAN2N5238†	50m	1.5	§A	10		200	7.0	170	100nØ	5.0Ø	5.0	40	120 #	15M§△		500nØ		T05	A
37	2N5327†	50m$	5.0 Ø	§J	10	2.0	100	5.0	80		2.0Ø	1.0	100	300	100M§△	500m	200nØ		T05	A
38	JAN2N6265	50m§	6.2 Ø	§J	275m		50	3.5	50 #	2.0m§	5.0Ø	100m	30	120 #					B25	AC
39#	2NJ243E*	50m	7.5 Ø	§J	600m		35	3.5	20	400uØ	5.0Ø	200m	50 Ø					PE	W86	A
40#	2SC495	50m	5.0 Ø	♦J	800m	800mØ	70	5.0	50	1.0uØ	2.0Ø	50m	40	240	100M§	1.6		PE	B7	B
41#	2SC496	50m	5.0 Ø	♦J	800m	800mØ	40	5.0	30	1.0uØ	2.0Ø	50m	40	240	100M§	1.6		PE	B7	B
42#	2SC582	50m	4.0	§J	100m		300	3.0	300 §	100m	10	50m	30	150				ME	T066	Ø
43♦#	2SC1039	50m	7.5 Ø	§J	250m		40	3.0	20	100uØ	10Ø	100m	15	200	2.0G§			PE	T136	S
44♦#	2SC1042	50m	7.5 Ø	§J	250m		40	3.0	20	100uØ	10Ø	100m	15	200	2.0G§			PE	T136	S
45♦#	2SC1593	50m	7.5 Ø	§J	250		40	3.0	20	100uØ	10Ø	100m	15	200 #	2.0G§			E	T136	S
46#	2SC1837	50m	7.5	§J	600m		35	3.5	20 §	400u	5.0Ø	200m	50 Ø					PE	W16a	F
47#	2SD156	50m§	4.0 Ø	§J	100m		200	3.0	200	10mØ	10Ø	50m	20	250 *	20M§	100		D	T066	
48#	2SD157	50m§	4.0 Ø	§J	100m		300	3.0	300	10mØ	10Ø	50m	20	250 *	20M§	100		D	T066	
49	40264	50m	4.0 Ø	§	100m	100m	300	3.0	300	100u	10Ø	50m	30	150	25Mt				F14	
50	40347	50m	1.0	§J	1.5	500m	60	7.0	40	1.0u*	4.0Ø	450m	25	100		2.2		D	T05	AØ
51	40347L	50m	1.0	§J	1.5	500m	60	7.0	40	1.0u*	4.0Ø	450m	25	100		2.2		H	T05	AØ
52	40347S	50m	1.0	§J	1.5	500m	60	7.0	40	1.0u*	4.0Ø	450m	25	100		2.2		H	T039	AØ
53	40348	50m	1.0	§J	1.5	500m	90	7.0	65	1.0u*	4.0Ø	300m	30	125		2.5		D	T05	AØ
54	40348L	50m	1.0	§J	1.5	500m	90	7.0	65	1.0u*	4.0Ø	300m	30	125		2.5		H	T05	AØ
55	40348S	50m	1.0	§J	1.5	500m	90	7.0	65	1.0u*	4.0Ø	300m	30	125		2.5		H	T039	AØ
56	40349	50m	1.0	§J	1.5	500m	160	7.0	140	1.0u*	4.0Ø	150m	30	125		3.3		D	T05	AØ
57	40349L	50m	1.0	§J	1.5	500m	160	7.0	140	1.0u*	4.0Ø	150m	30	125		3.3		H	T05	AØ
58	40349S	50m	1.0	§J	1.5	500m	160	7.0	140	1.0u*	4.0Ø	150m	30	125		3.3		H	T039	AØ
59#	BF469	50m	1.8 Ø§	§J	100m		250	5.0	250	10nØ	20Ø	25m	50		60M§	800m▼		PE	TO126	BØ
60#	BF471	50m	2.0 Ø§	§J	100m		300	5.0	300 §		20	25m	50		60M§△	400		PE	TO126	B
61	D40C3	50m	1.3 #	§S	1.0 #			13	30 Ø	20ut	5.0Ø	200m	90k		75m§		100 Ø	†	B15b	F
62	D40D1†	50m	1.3 #	§S	1.0			5.0	30	100n§	2.0Ø	100m	50	150	200M§	1.0	25nØ	†	B15b	F
63	D40D2†	50m	1.3 #	§S	1.0			5.0	30	100n§	2.0Ø	100m	120	360	200M§	1.0	25nØ	†	B15b	F
64	D40D3†	50m	1.3 #	§S	1.0			5.0	30	100n§	2.0Ø	100m	290		200M§		25nØ	†	B15b	F
65	D40D4†	50m	1 3 #	§S	1.0			5.0	45	100n§	2.0Ø	100m	50	150	200M§	1.0	25nØ	†	B15b	F
66	D40D5†	50m	1.3 #	§S	1.0			5.0	45	100n§	2.0Ø	100m	120	360	200M§	1.0	25nØ	†	B15b	F
67	D40D7†	50m	1.3 #	§S	1.0			5.0	60	100n§	2.0Ø	100m	50	150	200M§	2.0	25nØ	†	B15b	F
68	D40D8†	50m	1.3 #	§S	1.0			5.0	60	100n§	2.0Ø	100m	120	360	200M§	2.0	25nØ	†	B15b	F
69	D40D10	50m	1.3 #	§S	1.0			5.0	75	100n§	2.0Ø	100m	50	150	200M§	2.0	25nØ	†	B15b	F
70	D40D11	50m	1.3 #	§S	1.0			5.0	75	100n§	2.0Ø	100m	120	360	200M§	2.0	25nØ	†	B15b	F
71	D40D13	50m	1.6	§J	1.0			5.0	75	100n§	2.0Ø	100m	50	150	200M§	2.0	25nØ	†	B15b	F
72	D40D14	50m	1.6	§J	1.0			5.0	75	100n§	2.0Ø	100m	120	360	200M§	2.0	25nØ	†	B15b	F
73	D40N1	50m	1.3 #	§J	100m			5.0	250 §	10u	10Ø	20m	30	90	80M§			†	B15b	F
74	D40N2	50m	1.3 #	§J	100m			5.0	250 §	10u	10Ø	20m	30	90	80M§			†	B15b	F
75	D40N3	50m	1.3 #	§J	100m			5.0	300 §	10u	10Ø	20m	30	90	80M§			†	B15b	F
76	D40N4	50m	1.3 #	§J	100m			5.0	300 §	10u	10Ø	20m	60	180	80M§			†	B15b	F
77	D40N5	50m	1.6	§J	100m			5.0	300 §	10u	10Ø	20m	20		80M§			†	B15b	F
78	D40P1	50m	1.3 #	#J	500m		200	7.0	120	10u	10Ø	80m	40		50M§△		2.5u§	†	B15b	F
79	D40P3	50m	1.3 #	§J	500m		250	7.0	180	10u	10Ø	80m	40		50M§△		2.5u§	†	B15b	F
80	D40P5	50m	1.3 #	§J	500m		300	7.0	225	10u	10Ø	80m	40		50M§△		2.5u§	†	B15b	F
81#	DT1311	50m	5.0	§J	1.5	500m	60	12	60 §	1.5u	4.0	200m	20	60	1.5M§	3.7		D	T05	
82#	DT1312	50m	5.0	§J	1.5	500m	100	12	100 §	1 5u	4.0	200m	20	60	1.5M§	3.7		D	T05	
83#	DT1321	50m	5.0	§J	1.5	500m	60	12	60 §	1.5u	4.0	200m	40	120	2.5M§	3.7		D	T05	
84#	DT1322	50m	5.0	§J	1.5	500m	100	12	100 §	1.5u	4.0	200m	40	120	2.5M§	3.7		D	T05	
85	KS6103†	50m		§J	1.0	200m	60	4.5	60	500u	5.0	500m	15		300Mt		20nØ	PE	TO39	
86	KS6104†	50m		§J	1.0	200m	40	4.5	40	500u	5.0	500m	15		300Mt		25nØ	PE	TO39	
87	MSP10	50m	2.0	§A	400m	150m	100	5.0	100 §	3.0u	10Ø	55m	30	55 Ø	40M§	25		DM	F8	
88	MSP15	50m	2.0	§A	400m	150m	150	5.0	150 §	3.0u	10Ø	55m	30	55 Ø	40M§	25		DM	F8	
89	MSP20	50m	2.0	§A	400m	150m	200	5.0	200 §	3.0u	10Ø	55m	30	55 Ø	40M§	25		DM	F8	
90	MSP25	50m	2.0	§A	400m	150m	250	5.0	250 §	3.0u	10Ø	55m	30	55 Ø	40M§	25		DM	F8	
91	MSP30	50m	2.0	§A	400m	150m	300	5.0	300 §	3.0u	10Ø	55m	30	55 Ø	40M§	25		DM	F8	
92	MSP35	50m	2.0	§A	400m	150m	350	5.0	350 §	3.0u	10Ø	55m	30	55 Ø	40M§	25		DM	F8	
93	MSP40	50m	2.0	§A	400m	150m	400	5.0	400 §	4.0u	10Ø	45m	30	55 Ø	40M§	30		DM	F8	
94	MSP45	50m	2.0	§A	400m	150m	450	5.0	450 §	4.0u	10Ø	45m	30	55 Ø	40M§	30		DM	F8	
95	MSP50	50m	2.0	§A	350m	150m	500	5.0	500 §	6.0u	10Ø	25m	30	55 Ø	40M§	55		DM	F8	
96	MSP55	50m	2.0	§A	350m	150m	550	5.0	550 §	6.0u	10Ø	25m	30	55 Ø	40M§	60		DM	F8	
97	MSP60	50m	2.0	§A	350m	150m	600	5.0	600 §	8.0u	10Ø	25m	30	55 Ø	40M§	60		DM	F8	
98	MSP65	50m	2.0	§A	350m	150m	650	5.0	650 §	8.0u	10Ø	25m	30	55 Ø	40M§	60		DM	F8	
99	MSP70	50m	2.0	§A	350m	100m	700	5.0	700 §	10u	10Ø	25m	30	55 Ø	40M§	65		DM	F8	
100	MSP75	50m	2.0	§A	300m	100m	750	5.0	750 §	10u	10Ø	22m	30	55 Ø	40M§	73		DM	F8	
101	MSP80	50m	2.0	§A	300m	100m	800	5.0	800 §	12u	10Ø	22m	25	50 Ø	40M§	73		DM	F8	
102	MSP85	50m	2.0	§A	250m	75m	850	5.0	850 §	12u	10Ø	20m	25	50 Ø	40M§	80		DM	F8	
103	MSP90	50m	2.0	§A	250m	75m	900	5.0	900 §	15u	10Ø	20m	25	50 Ø	40M§	80		DM	F8	
104	MSP95	50m	2.0	§A	200m	50m	950	5.0	950 §	15u	10Ø	15m	25	50 Ø	40M§	100		DM	F8	
105	MSP100	50m	2.0	§A	400m	100m	1.0k	5.0	1.0k§	12u	10Ø	20m	30	180	35M	45		DM	F8	
106	NPC1449	50m	5.0 Ø	§J	3.0 #		40	5.0	35	500nØ	2.0Ø	300m	40 #	320 #	50M§		1.4u#	PL	TO126	BØ
107	PT4925	50m	8.8	§	10	5.0	100	5.0	80	1.0m	5.0	5.0	80	200	60M	250m	350nØ	PL	TO5	A
108	PT4961	50m	9.0	§	5.0	2.0	140	6.0	120	1.0m	1.0	500m	40	120	50M	700m	350nØ	PL	TO5	A
109	PT5909	50m	1.0	§J	10	2.0	100	6.0	80	1.0uØ	5.0Ø	1.0	100	300	50M	500m	75n	PL	TO5	A
110	RCP111A	50m	6.2 Ø	§J	150m	50m		7.0	200 Ø	1.0u♦	10Ø	25m	50	300 #	80M§	40m#		DE†	B12	P

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N6197	57m	10 Ø	§S	1.0		60 †	4.0†	35	2.0m§†									T91	R
2	2N6202	57m	10 Ø	§S	500m		60 †	4.0†	33	2.0m§†									T91	R
3	2N6206	57m	10 Ø	§S	500m		50 †	4.0†	30	2.0m§†									T93	R
4	2N6366	57m	10 Ø	§S	1.0		36 †	4.0†	18	5.0m§†	5.0Ø	250m	5.0	50	50M§△				TO102	AØ
5#	2SC691	57m	8.6 Ø	§J	500m		60	4.0	40	200uØ	10Ø	100m	10 #	180 #	400M§			PE†	T59b	R
6#	2SC778	57m	2.5	§J	2.0		80	4.0	40	10uØ	10Ø	100m	10 #		150M§			PE	F19	
7#	2SC1011	57m	10 Ø	§J	750m		40	3.0	20	100uØ	10Ø	100m	5.0 #		500M§			PE†	TO131	R
8	40385L	57m	1.0	§J	1 0		450	7.0	350	20u△	10Ø	20m	40	160		10			TO5	AØ
9	40385S	57m	1.0	§J	1.0		450	7.0	350	20u△	10Ø	20m	40	160		10			TO39	AØ
10	40390	57m	3.5	§J	1.0	500m	300	7.0	250 ☑	50u△	10Ø	20m	40	160	15M§△	10		D△	F31	A
11	40446	57m	10 Ø	§J	1.5			2.5		10u					27M*			DPL	F16	AØ
12	40582	57m	10 Ø	§J	1.5			2.5		10u					27M*			DPL	F16	AØ
13	40594	57m	1.2	§A	2.0	1.0		4.0		10u*	4.0Ø	300m	70	350				PL	TO5	AØ
14	40594L	57m	1.2	§A	2.0	1.0		4.0	95 §☑	10u*	4.0Ø	300m	70	350					TO5	AØ
15	40594S	57m	1.2	§A	2.0	1 0		4.0	95 §☑	10u*	4.0Ø	300m	70	350					TO39	AØ
16	B2-8Z	57m	10 Ø	§J	1.0			3.0	14						175M#				W54	R
17	B3-12	57m	10 Ø	§J	1.0			4.0	18						175M#				T91	R
18	B3-28	57m	10 Ø	§J	1.0			4.0	35						175M#				T91	R
19▼#	BF257	57m	5.0 Ø	§J	1.0		160	5.0	160	50nØ	10Ø	30m	25		30M§	33m		D	TO39	AØ
20▼#	BF258	57m	5.0 Ø	§J	1.0		250	5.0	250	50nØ	10Ø	30m	25		30M§	33m		D	TO39	AØ
21▼#	BF259	57m	5.0 Ø	§J	1.0		300	5.0	300	50nØ	10Ø	30m	25		30M§	33m		D	TO39	AØ
22▼#	BFQ38	57m	5.7 Ø	♦J	1.0	500m	300	5.0	250	20u§Ø	5.0Ø	50m	25 Ø		10M§	15 ▼		D	TO39	A
23▼#	BFQ39	57m	5.7 Ø	♦J	1.0	500m	300	5.0	300	500n§Ø	5.0Ø	50m	25 Ø		10M§	15 ▼		D	TO39	A
24▼#	BFQ40	57m	5.7 Ø	♦J	1.0	500m	450	5.0	350	20u§Ø	5.0Ø	50m	25 Ø		10M§	15 ▼		D	TO39	A
25#	BSS15†	57m	10 Ø	§J	2.0	1.0	100	7.0	75	500nØ	4.0Ø	500m	30	120 #	50M§△		80nØ☑	PE	TO39	AØ
26#	BSS16†	57m	10 Ø	§J	2 0	1.0	75	5.0	50	5.0uØ	4.0Ø	500m	40 #	250 #	50M§△		80nØ☑	PE	TO39	AØ
27	C2-8Z	57m	10 Ø	§J	1.0			3.0	14						470M#				W54	R
28	C3-12	57m	10 Ø	§J	1.0			4.0	17						470M#				T91	R
29	C3-28	57m	10 Ø	§J	500m			4.0	33						400M#				T91	R
30	CD2035*	57m	10 Ø	§J	500m†			4.0†	50 Ø										T75g	R
31	CD2087*	57m	10 Ø	§J	500m†			4.0†	50 Ø										T75g	R
32	D3-28	57m	10 Ø	§J	500m			4.0	30						960M#				T93	R
33	HEPS3010-RT†																			
		57m	10 Ø	§J	4.0	1 0	70	5.0	60	100u♦	2.0Ø	4.0	20 #	100 #	4 0M§△	250m	100n☑		TO39	A
34	MRF231	57m	10 Ø	§S	1.0		36 †	4.0†	18	500u♦Ø	5.0Ø	250m	5.0		90M#				T93b	R
35	PT2620	57m	1.0	§J	1.0	400m	85	4.0	45	100m§	20Ø	350m	30	100 #	700M§	7.5		PL	TO5	
36	PT2620A	57m	1.0	§J	1.0	400m	85	4.0	45		20Ø	350m	30	100 #		7.5			TO5	AØ
37	PT2640	57m	1.0	§J	1.0	400m	85	4.0	45	50m§	20Ø	350m	30	100 #	400M§	7.5		PL	TO5	
38	PT2660	57m	1.0	§J	1.2		70	4.0	40	1.0u§	12Ø	100m	20	150				PL	TO39	
39	PT2670†	57m	1.0	§J	1.0		100	4.0	60	1.0uØ	20Ø	350m	20	100 #	170M§				TO5	
40	PT3502	57m	10 Ø	§J	750m		60	3.0	40	100uØ	20Ø	50	15	100 #				PL	T59	R
41	PT3503	57m	10 Ø	§J	750m		40	3.0	25	100uØ	12Ø	50m	15	100 #				PL	T59	R
42	RCA1A15	57m	10 Ø	§J	1.0	500m		5.0	100	10u△♦	10Ø	10m	20	100	15M§△	100		E	TO39	AØ
43	SCA3523-2	57m	10 Ø	§J	1 5		70	3.5	40	10u					100M§			D	F8	A
44	SCA3523-3	57m	10 Ø	§J	1.5		70	3.5	40	10u					100M§			D	T13	A
45	SCA3523A2	57m	10 Ø	§J	1.5		70	3.5	40	10u					100M§			D	F8	A
46	SCA3523A3	57m	10 Ø	§J	1.5		70	3.5	40	10u					100M§			D	T13	A
47	STI105	57m#	2.0 Ø	§S	1.0	500m	100	6.0	100 §	3.0u	10Ø	75m	30	200	30m			D	F8	
48	STI205	57m#	2.0 Ø	§S	1.0	500m	200	6.0	200 §	3.0u	10Ø	60m	30	200	30m			D	F8	
49	STI305	57m#	2.0 Ø	§S	1.0	500m	300	6.0	300 §	3.0u	10Ø	55m	30	200	30m			D	F8	
50	STI405	57m#	2.0 Ø	§S	1.0	500m	400	6.0	400 §	3.0u	10Ø	45m	30	200	30m			D	F8	
51	STI505	57m#	2.0 Ø	§S	1.0	500m	500	6.0	500 §	3.0u	10Ø	35m	30	200	30m			D	F8	
52	STI605	57m#	2.0 Ø	§S	1.0	500m	600	6.0	600 §	4.0u	10Ø	25m	30	200	30m			D	F8	
53	STI705	57m#	2.0 Ø	§S	1.0	500m	700	6.0	700 §	4.0u	10Ø	20m	30	200	30m			D	F8	
54	TRL2005	57m	2.0	§	3.0	1.0	200	4.0	200 §	10u	10Ø	500m	15	35 Ø	20M§△				F8	
55	TRS25X	57m	10 Ø	§A	1.0	500m	300	12	250	100u	10Ø	20m	1.6k	30k	50MØ△				TO5	
56	TRS30X	57m	10 Ø	§A	1.0	500m	400	12	300	100u	10Ø	20m	2.5k	32k	50MØ△				TO5	
57	TRS35X	57m	10 Ø	§A	1.0	500m	450	12	350	100u	10Ø	20m	1.6k	30k	50MØ△				TO5	
58	TRS3742	57m	2.0	§	1.0	500m	300	7.0	300	200n	10	30m	20	200	50M				F8	
59	TRS4926	57m	2.0	§	1.0	500m	200	7.0	200	100n	10	30m	20	200	50M				F8	
60	TRS4927	57m	2.0	§	1.0	500m	250	7.0	250	100n	10	30m	20	200	50M				F8	
61	MSC80186*	58m					50 †	3.5†	20		5.0Ø	100m	15	20	3.2G§				T95	R
62	MSC80196*	58m					50 †	3.5†	20		5.0Ø	100m	15	20	3.2G§				W77	F
63	2N6524	59m	10 Ø	§S	1.2 †		40 †	3.0†	40 §	1.2m§♦	5.0Ø	250m	15						W24	A§
64	2N6528	59m	10 Ø	§S	1 2 †		50 †	3.5†	50 §	1.2m§♦	5 0Ø	250m	15						W24	A§
65	2N5152	60m	1.0	§J	2.0	1.0	100 †	6.0†	80	1.0m#♦	5 0Ø	2.5	30	90 #	60M§△				TO39	AØ
66	2N5154	60m	1.0	§J	2.0	1.0	100 †	6.0†	80	1.0m#♦	5.0Ø	2.5	70	200 #	70M§△				TO39	AØ
67	3TX615	60m	11	J	500m	100m	50	4.0	50	100u	5.0	200m	10	150	500M			PL	TO60	
68	2003*	60m	11 Ø	§J	500m†			4.0†	50 Ø										W24	A
69	2702	60m	10 Ø		500m			4.0	50 Ø						2.7G					
70	3003	60m	10 Ø		500m			4.0	50 Ø						3.0G					
71	D10P	60m	11 Ø	§	1.0			4.0	50 Ø						1.0G					
72	DM10P	60m	11 Ø	§	1.0			4.0	50 Ø						1.0G					
73	KS6105†	60m		§J	1 5	300m	60	4.5	60	500u	5.0	1.0	20		400M†		15n☑	PE	TO39	
74	KS6106†	60m		§J	1.5	300m	40	4.5	40	500u	5.0	1.0	20		400M†		20n☑	PE	TO39	
75	KS6107†	60m		§J	2.0	500m	60	4.5	60	500u	5 0	1 0	15		200M†		15n☑	PE	TO37	
76	KS6108†	60m		§J	2 0	500m	40	4.5	40	500u	5.0	1 0	15		200M†		20n☑	PE	TO37	
77	40666	62m	11 Ø	§J	500m		65	4.0	40	100u△					500M§	4.0		E	TO60	A☑
78♦#	2SC1791	63m	11 Ø	§J	1.0		45	4 0	23	500uØ	10Ø	500m	15	250	1.0G§△			E	T59d	S
79♦#	2SC1212	64m	10 Ø	§J	1.0		50	4.0	50	5.0u	4.0Ø	50m	60 *	200 *	160M§	1.5		E	B7a	B
80♦#	2SC1212A	64m	10 Ø	§J	1.0		80	4.0	80	5.0uØ	4.0Ø	50m	60 *	200 *	160M§	1.5		E	B7a	B
81♦#	2SC1368	64m	8.0 Ø	§J	1.5		25	5.0	25	20uØ	2.0Ø	500m	35 *	320 *	180M§	500m		D	B7a	B
82	D40E1	64m	1.6	§J	2.0			5.0	30	100n§	2.0Ø	100m	50		230M§	1.0	130nØ	†	B15b	F
83	D40E5	64m	1.6	§J	2.0			5.0	60	100n§	2.0Ø	100m	50		230M§	1.0	130nØ	†	B15b	F
84	D40E7	64m	1.6	§J	2 0			5.0	80	100n§	2 0Ø	100m	50		230M§	1.0	130nØ	†	B15b	F
85	2N4440	65m	11 Ø	§J	1.5	200m	65	4.0	40	100u△♦	5.0Ø	125m	10	200	400M§△	4.0			TO60	A
86	2N1068†	66m	10 Ø	§A	1.5	500m	60	12	30	500u	4.0Ø	750m	15	75	1.5Mt	2.6	1.6u	D	TO8	AØ
87	2N2201	66m	2.0	§C	1.0	500m	120	10	100	50u	6.8Ø	200m	25	90 #	10M§△				F8	AØ
88	2N2202	66m	1.0	§C	1.0	500m	120	10	100	50u	6.8Ø	200m	25	90 #	10M§△				R45	A
89	2N2203	66m	1.0	§C	1.0	500m	120	10	100	50u	6.8Ø	200m	25	90 #	10M§△				R46	A
90	2N2204	66m	1.0	§C	1.0	500m	120	10	100	50u	6.8Ø	200m	25	90 #	10M§△				T19	A
91	2N2611	66m	2.0	§C	1.0	500m	120 †	10†	100	50u♦	6.8	200m	7.0	36 #	4.0M§△				F8	AØ
92	2N2655	66m	15 Ø	§C	500m	250m	100	8.0	100	100u♦	8.0Ø	200m	30	90 #	250k△	10 #			TO5	AØ
93	2N2849-1†	66m§	850m	§S	3.0		100	5.0	80		1.0Ø	1.0	100	300 #	30k§△	400m	125n☑	PE	TO5	Ø
94	2N2849-2†	66m§	850m	§S	3.0		100	5.0	80		1.0Ø	1.0	100	300 #	30k§△	400m	125n☑	PE	T26	Ø
95	2N2850-2†	66m§	850m	§S	3.0		100	5.0	80		1.0Ø	1.0	40	120 #	30k§△	250m	125n☑	PE	T26	Ø
96	2N2851-2†	66m§	850m	§S	3.0		100	5.0	80		1.0Ø	1.0	40	120 #	30k§△	400m	125n☑	PE	T26	Ø
97	2N2852-2†	66m§	850m	§S	3.0		100	5.0	80		1.0Ø	1.0	20	60 #	30k§△	400m	125n☑	PE	T26	Ø
98	2N2853-2†	66m§	850m	§S	3.0		60	5.0	40		1.0Ø	1.0	40 #		30k§△	300m	125n☑	PE	T26	Ø
99	2N2854-1†	66m§	850m	§S	3.0		60	5 0	40		1.0Ø	1 0	100	300 #	30k§△	400m	125n☑	PE	TO5	
100	2N2854-2†	66m§	850m	§S	3.0		60	5.0	40		1.0Ø	1.0	100	300 #	30k§△	400m	125n☑	PE	T26	Ø
101	2N2855-2†	66m§	850m	§S	3.0		60	5.0	40		1.0Ø	1.0	40	120 #	30k§△	400m	125n☑	PE	T26	Ø
102	2N2856-2†	66m§	850m	§S	3.0		60	5.0	40		1.0Ø	1.0	20	60 #	30k§△	400m	125n☑	PE	T26	Ø
103	2N3016	66m§	3.3 Ø	§J	2.5	500m	100	4.0	50	100nØ	5.0Ø	1.0	60						R179	
104	2N3017	66m§	3.3 Ø	§J	5.0	1.0	100	4.0	50	100nØ	5.0Ø	1.0	60						T27	
105	2N3375	66m	11 Ø	§C	1.5	200m	65 †	4.0†	40	100m△♦	5.0Ø	250m	15	150	350M§△	4.0			TO60	A
106♦	JAN2N3375	66m	2.6	§J	1.5		65	4.0	40	100u	5.0Ø	150m	15	150 #	350M§△	1.4 #			T31	F
107	2N3589	66m	2.0	§C	500m	250m	200	10	200 §	1.0uØ	8.0Ø	200m	30	90 #	15M§△				F8	AØ
108	2N3590	66m	2.0	§C	500m	250m	200	10	200 §	1.0uØ	8.0Ø	200m	75	150 #	15M§△				F8	
109	2N3591	66m	1.0	§C	500m	250m	200	10	200 §	1.0uØ	8.0Ø	200m	30	90 #	15M§△				R46	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AX MP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	TRS3255LP	66m	2.0	§J	400m	50m	325	3.0	325 §	10uØ	4.0Ø	25m	30 Ø		50k§	80			F8	
2	TRS3505	66m	2.0	§A			350	6.0	350 §	2.0uØ	4.0Ø	50m	22 Ø		50k§	36			F8	
3	TRS3505LP	66m	2.0	§J	400m	50m	350	3.0	350 §	10uØ	4.0Ø	25m	30 Ø		50k§	80			F8	
4	TRS3605S	66m	2.0	§A	400m		420	5.0	360	2.0uØ	8.0Ø	200m	25	45 Ø	50M§Δ	30		DM	F8	
5	TRS3755	66m	2.0	§J	400m	50m	375	6.0	375 §	3.0uØ	4.0Ø	50m	20 #		50M§	38			F8	
6	TRS3755LP	66m	2.0	§J	400m	50m	375	3.0	375 §	10uØ	4.0Ø	25m	30 Ø		50k§	80			F8	
7	TRS4005	66m	2.0	§A			400	6.0	400 §	2.0uØ	4.0Ø	50m	30 #	65 Ø	50M§	30			F8	
8	TRS4015	66m	2.0	§J	400m	50m	400	6.0	400 §	2.0uØ	4.0Ø	50m	22 Ø		50k§	36			F8	
9	TRS4015LP	66m	2.0	§J	400m	50m	400	3.0	400 §	10uØ	4.0Ø	25m	30 Ø		50k§	80			F8	
10	TRS4015S	66m	2.0	§A	400m		480	5.0	400	10uØ	10Ø	100m	20	30 Ø	50M§Δ	60		DM	F8	
11	TRS4255	66m	2.0	§J	400m	50m	425	6.0	425 §	3.0uØ	4.0Ø	50m	30 Ø		50k§	30			F8	
12	TRS4255LP	66m	2.0	§J	400m	50m	425	3.0	425 §	10uØ	4.0Ø	25m	30 Ø		50k§	80			F8	
13	TRS4505	66m	2.0	§A			450	6.0	450 §	2.0uØ	4.0Ø	50m	22 Ø		50k§	36			F8	
14	TRS4505LP	66m	2.0	§J	400m	50m	450	3.0	450 §	10uØ	4.0Ø	25m	30 Ø		50k§	80			F8	
15	TRS4755	66m	2.0	§J	400m	50m	475	6.0	475 §	2.0uØ	4.0Ø	50m	30 #		50M§	30			F8	
16	TRS4755LP	66m	2.0	§J	400m	50m	475	3.0	475 §	10uØ	4.0Ø	25m	30 Ø		50k§	80			F8	
17	TRS4805S	66m	2.0	§A	400m		580	5.0	480	10uØ	10Ø	100m	20	30 Ø	50M§Δ	60		DM	F8	
18	TRS5015	66m	2.0	§A	400m		500	6.0	500 §	2.0uØ	5.0Ø	50m	22 Ø		50k§	30			F8	
19	TRS5205S	66m	2.0	§A	400m		625	5.0	520	10uØ	10Ø	100m	20	30 Ø	50M§Δ	60		DM	F8	
20	TRS5255	66m	2.0	§J	400m	50m	525	6.0	525 §	2.0uØ	5.0Ø	25m	22 Ø		50k§	72			F8	
21	TRS5405S	66m	2.0	§A	400m		650	5.0	540	10uØ	10Ø	100m	20	30 Ø	50M§Δ	60		DM	F8	
22	TRS5505	66m	2.0	§A	400m		550	6.0	550 §	10uØ	5.0Ø	25m	30	65 Ø	50M§Δ				F8	
23	TRS5755	66m	2.0	§J	400m	50m	575	6.0	575 §	2.0uØ	5.0Ø	25m	22 Ø		50k§	72			F8	
24	TRS5805S	66m	2.0	§A	400m		700	5.0	580	10uØ	10Ø	100m	20	30 Ø	50M§Δ	60		DM	F8	
25	TRS6015	66m	2.0	§A	400m		600	6.0	600 §	10uØ	5.0Ø	25m	20	60 Ø	50M§Δ			DM	F8	
26	TRS6205S	66m	2.0	§A	400m		750	5.0	620	10uØ	10Ø	100m	20	30 Ø	50M§Δ	60		DM	F8	
27	TRS6505	66m	2.0	§A			650	6.0	650 §	10uØ	5.0Ø	25m	25 #		50M§	60			F8	
28	TRS6605S	66m	2.0	§A	400m		800	5.0	660	10uØ	10Ø	100m	20	30 Ø	50M§Δ	60		DM	F8	
29	TRS7015	66m	2.0	§A			700	6.0	700 §	10uØ	5.0Ø	25m	25 #		50M§	60			F8	
30	TRS7015S	66m	2.0	§A	400m		850	5.0	700	10uØ	10Ø	100m	20	30 Ø	50M§Δ	60		DM	F8	
31	TRS7505	66m	2.0	§A			750	6.0	750 §	10uØ	5.0Ø	25m	25 #		50M§	60			F8	
32	TRS8015	66m	2.0	§A			800		800 §	10uØ	5.0Ø	25m	25 #		50M§	60			F8	
33	2N1085	67m		§J	2.0	.20	60	5.0	50	50m	5.0	.50	40	120	10k†	6.0			TO5	
34	2N6390	67m#	8.3 Ø	§S	1.0		50 †	3.5†	50 §	2.0m§♦	10Ø	50m	20	120					W24	AC
35♦#	2SC1405	67m	10	§J	750m		36	4.0	18	50uØ	10Ø	100m	40 Ø					PE	TO131	R
36♦#	2SC1620	67m	10	§J	600m		36	3.0	18	100uØ	13Ø	100m	10	200				PE	TO131	R
37#	2SC1804	67m	10 Ø	§J	1.0		47	4.0	47 §	200uØ	25Ø	100m	10	180 #	1.2G§			PE		
38#	2SC1808	67m	10 Ø	§J	1.0		35	3.5	17	100uØ	10Ø	100m	10	180 #	1.2G§			PE		
39#	2SC2145	67mØ	10 Ø	§J	2.0		35	4.0	18	500uØ	10Ø	100m	20	180 #	500M§			PE	TO39	A
40	2850-1†	67m	1.2	§A	5.0		100	5.0	80	100n§	1.0Ø	50m	25	50 Ø	40M§	250m	50n	PL	TO5	AØ
41	2850-3†	67m	1.5	§A	5.0		100	5.0	80	100n§	1.0Ø	50m	25	50 Ø	40M§	250m	50n	PL	T32	AØ
42	2851-1†	67m	1.2	§A	5.0		100	5.0	80	100n§	1.0Ø	50m	25	50 Ø	40M§	400m	50n	PL	TO5	AØ
43	2851-3†	67m	1.5	§A	5.0		100	5.0	80	100n§	1.0Ø	50m	25	50 Ø	40M§	400m	50n	PL	T32	AØ
44	2852-1†	67m	1.2	§A	5.0		100	5.0	80	100n§	1.0Ø	50m	15	25 Ø	30M§	400m	60n	PL	TO5	AØ
45	2852-3†	67m	1.5	§A	5.0		100	5.0	80	100n§	1.0Ø	50m	15	25 Ø	30M§	400m	60n	PL	T32	AØ
46	2853-1†	67m	1.2	§A	5.0		60	5.0	40	100n§	1.0Ø	1.0	40 #	85 Ø	40M§		50n	PL	TO5	AØ
47	2853-3†	67m	1.5	§A	5.0		60	5.0	40	100n§	1.0Ø	1.0	40 #	85 Ø	40M§		50n	PL	T32	AØ
48	2854-1†	67m	1.2	§A	5.0		60	5.0	40	100n§	1.0Ø	50m	50	90 Ø	50M§		40n	PL	TO5	AØ
49	2854-3†	67m	1.5	§A	5.0		60	5.0	40	100n§	1.0Ø	50m	50	90 Ø	50M§		40n	PL	T32	AØ
50	2855-1†	67m	1.2	§A	5.0		60	5.0	40	100n§	1.0Ø	50m	25	50 Ø	40M§		50n	PL	TO5	AØ
51	2855-3†	67m	1.5	§A	5.0		60	5.0	40	100n§	1.0Ø	50m	25	50 Ø	40M§		50n	PL	T32	AØ
52	2856-1†	67m	1.2	§A	5.0		60	5.0	40	100n§	1.0Ø	50m	15	25 Ø	30M§		60n	PL	TO5	AØ
53	2856-3†	67m	1.5	§A	5.0		60	5.0	40	100n§	1.0Ø	50m	15	25 Ø	30M§		60n	PL	T32	AØ
54	PT3986	67m	1.5	§J	5.0	1.0	100	5.0	60	100n§Ø	1.0Ø	1.0	40		50M	250m		PL	TO5	H
55	PT4992	67m	1.5	§J	5.0	1.0	100	8.0	80	100n§Ø	2.0Ø	1.0	40	120	20M	500m	80n	PL	TO5	H
56	2N5423	68m	12 Ø	§C	2.0	1.0	36	4.0	18	1.0uØ	5.0Ø	1.0	20	70	300M§	500m			TO60	AØ
57	2N5645	68m	12 Ø	§S	1.0		36	4.0	18	500uØ	5.0Ø	500m	15		400M§Δ				T72h	R
58	2N6080	68m	12 Ø	§S	1.0		36	4.0	18	250uØ	5.0Ø	250m	5.0						T72h	R
59♦#	2SC891	68m	10 Ø	§J	600m		40	4.0	20	5.0uØ	10Ø	500m	15 #		600M§Δ			PE	T59d	SØ
60▼#	2SC2118	68m	10 Ø	§J	1.4		35	3.5	17	1.0mØ	5.0Ø	1.0	10 #	200 #				PE	F17	
61	SD1095	68m	12 Ø	§J	1.0		36	4.0	16	2.0m	5.0Ø	100m	10					PE	T72q	R
62▼#	2SD439	69m	8.0 Ø	§J	1.2		20	5.0	18	1.0uØ	2.0Ø	500m	60	320	150M§			PE	TO126	B
63▼#	2SD600	69m	8.0 Ø	§J	1.0		100	5.0	100	1.0uØ	5.0Ø	50m	60	320	130M§			PE	TO126	B
64▼#	2SD600K	69m	8.0 Ø	§J	1.0		120	5.0	120	1.0uØ	5.0Ø	50m	60	320	130M§			PE	TO126	B
65	MRF5175	69m	12 Ø	§S	1.0		60 †	4.0†	33	500u♦Ø	5.0Ø	250m	10	100	400M#				T90	R
66	PT6635	69mØ	12 Ø	§S	600m		55	3.5	30											
67#	2SC1089	70m	7.0 Ø	♦J	150m		300	4.0	300	100u	10Ø	50m	35 #	180 #	70M§			PE†	B15a	P
68#	2SD204	71mØ	9.0 Ø	§J	700m		60	5.0	45	3.0uØ	2.0Ø	300m	40 #	200 #				PE	TO5	AØ
69	BC365	72m	1.0	†J	2.0		50	4.0	45	100nØ	1.0Ø	50m	80	125 Ø	150M§	1.6		AN	B18b	AØ
70	BC366	72m	1.0	†J	2.0		60	4.0	60	100nØ	1.0Ø	50m	80	125 Ø	150M§	1.6		AN	B18b	AØ
71	BC367	72m	1.0	†J	2.0		80	4.0	80	100nØ	1.0Ø	50m	80	125 Ø	150M§	1.6		AN	B18b	AØ
72	MPSU01	72m	1.0	†J	2.0		40	5.0	30	100nØ	1.0Ø	10m	55 #		50M§Δ			AN	B18	AØ
73	MPSU01A	72m	1.0	†J	2.0		50	5.0	40	100nØ	1.0Ø	10m	55 #		50M§Δ			AN	B18	AØ
74	PT2610	74m	13 Ø	§J	1.0	400m	100	4.0	60		20Ø	350m	20	100 #	600M§	1.6		PL	TO5	
75	PT2630	74m	1.0	§J	1.0		100	4.0	60		20Ø	350m	20	100		1.6		PL	TO5	
76	JAN2N2034†	75m§	1.0	§A	3.0		80	10	60	20u#	4.0Ø	1.0	20	60 #	1.0M§Δ		3.0uØØ		TO5	AØ
77	JAN2N2858†	75m§	1.0	§A	3.0		100	10	80	20u#	4.0Ø	1.0	20	60 #	1.0M§Δ		3.0uØØ		TO5	AØ
78	JAN2N2859†	75m§	1.0	§A	3.0		120	10	100	20u#	4.0Ø	1.0	20	60 #	1.0M§Δ		3.0uØØ		TO5	AØ
79	JAN2N2911†	75m§	1.0	§A	3.0		150	10	125	20u#	4.0Ø	1.0	20	60 #	1.0M§Δ		3.0uØØ		TO5	AØ
80#	2SC515	76m	6.0 §	§J	100m		300	3.0	300	100uØ	10Ø	50mΔ	30	150	20M§			ME	TO66	
81	ST74049†	76m#	11 Ø#	§J	2.0		125	10	80 *	10uØ	10Ø	1.0	30	120 #	30M§Δ		500nØ	PL	TO5	
82	ST74050†	76m#	11 Ø#	§J	2.0		145	10	100 *	10uØ	10Ø	1.0	30	120 #	30M§Δ		500nØ	PL	TO5	
83	ST74051†	76m#	11 Ø#	§J	2.0		170	10	120 *	10uØ	10Ø	1.0	30	120 #	30M§Δ		500nØ	PL	TO5	
84	JAN2N5918	80m§	2.4	§A	750m			4.0	30	5.0m	4.0Ø	500m	15	200 #	500M§Δ				T104	R
85#	2SC893	80m	12 Ø	§J	300m		100	6.0	60	1.0u	4.0Ø	50m	50	370	20M§			ME	F17	AØ
86#	2SC973A	80m	12 Ø	§J	700m		40	4.0	40 §	10uØ	10Ø	100m	20 #	180 #	1.2G§			PE†	T83	VØ
87#	2SC1096	80m	10 Ø	§	2.0		40	5.0	30	100u	5.0Ø	1.0	40	250 #	60M§			E	Y202a	DØ
88#	2SC1098	80m	10 Ø	§	1.0		70	5.0	45	100u	5.0Ø	500m	40	250 #	50M§			E	Y202a	DØ
89#	2SC1098A	80m	10 Ø	§J	5.0	600m	70	5.0	60	1.0uØ	5.0Ø	500m	40	250 #	40M§	1.3		E	Y202a	DØ
90♦#	2SC1162	80m	10 Ø	§J	1.5		35	5.0	35	20u	2.0Ø	500m	35 *	320 *	180M§	500m		E	B7a	B
91#	2SC1356	80m	12 Ø	§J	1.0		40	3.5	35 §	200uØ	5.0Ø	500m	80 Ø		1.8G§			PE	T129	GE
92♦#	2SC1446	80m	10	§J	150 #		300	5.0	300 §	100u	10Ø	50m	30	150	55M§	50		PL	B17	B
93#	2SC1520	80m	10 Ø	§J	200m		250	7.0	250	100nØ	10Ø	10m	40	200 #	50M§Δ			PL	B9	XØ
94#	2SC1521	80m	10 Ø	§J	200m		250	7.0	250	100nØ	10Ø	10m	40	200 #	50M§Δ			PL	B10	TØ
95#	2SC1524*	80m	12 Ø	§J	1.0		50	3.5	30	200uØ	5.0	500m	50 Ø		800M§			PE	T129a	GE
96#	2SC1534*	80m	12	§J	1.0		45	3.5	23	200uØ	5.0Ø	500m	50 Ø		1.6G§			PE	T129a	GE
97♦#	2SC1550	80m	10	§J	100m		250	5.0	250	100u	50Ø	5.0m	50	250	100M§	40		D	TO126	B
98#	2SC1562*	80m	12	§J	1.0		55	3.5	35	200uØ	5.0Ø	500m	50 Ø		1.6G§			PE	T129a	GE
99#	2SC1626	80m	1.5	§J	750m	750mØ	80	5.0	80	500nØ	2.0Ø	150m	70	240	100M§	1.0		PE	B26	D
100#	2SC1749	80m	1.2	§J	100m		300	5.0	220		10Ø	25m	35	230 #	80M§			D	B15a	PL
101▼#	2SC1758K	80m	10 Ø	§J	100m		300	7.0	300	1.0u	10Ø	20m	160	300	80M§	25		D	B36	AØ
102▼#	2SC1758L	80m	10 Ø	§J	100m		300	7.0	300	1.0u	10Ø	20m	100	200	80M§	25		D	B36	AØ
103▼#	2SC1758M	80m	10 Ø	§J	100m		300	7.0	300	1.0u	10Ø	20m	60	120	80M§	25		D	B36	AØ
104▼#	2SC1758N	80m	10 Ø	§J	100m		300	7.0	300	1.0u	10Ø	20m	40	80	80M§	25		D	B36	AØ
105#	2SC1822*	80m	12	§J	1.0		55	3.5	35	200uØ	5.0Ø	500m	50 Ø					PE	T129a	GE
106♦#	2SC1848	80m	10 Ø	§J	3.0		70	5.0	50	1.0uØ	5.0Ø	100m	30		150M§	600m		PE	B15b	B
107▼#	2SC2029	80m	10 Ø	§J	2.0		80	5.0	70 §	10uØ	5.0Ø	100m	100 Ø		150M§			PE	Y220b	D
108♦#	2SC2034	80m	12 Ø	§J	2.0		120	5.0	90 §	1.0uØΔ	5.0Ø	1.0	50	200	150M§			PE	TO39	AØ
109#	2SD324	80m	10 §	J§	150m#		300	3.0	300 Ø	100u	10Ø	10	50	150				D	TO3	CØ
110#	2SD356	80m	10 Ø	§J	800m		90	5.0	80	10uØ	4.0Ø	300m	55	300 #	70M§			PE†		

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	LCOADE
1	NSD128	83m	1 7	$J	250m		180	5.0	180	50nØ	5.0Ø	10m	50	500	100M§			PL†	Y202a	A
2	NSD129	83m	1 7	$J	250m		225	5.0	225	50nØ	5.0Ø	10m	50	500	100M§			PL†	Y202a	A
3	NSD131	83m	1.7	$J	200m		250	7.0	250	100nØ	10Ø	30m	30	90	50M§			PL†	Y202a	A
4	NSD132	83m	1.7	$J	200m		250	7.0	250	100nØ	10Ø	30m	60	180	50M§			PL†	Y202a	A
5	NSD133	83m	1.7	$J	200m		300	7.0	300	100nØ	10Ø	30m	30	90	50M§			PL†	Y202a	A
6	NSD134	83m	1.7	$J	200m		300	7.0	300	100nØ	10Ø	30m	60	180	50M§			PL†	Y202a	A
7	NSD135	83m	1.7	$J	200m		375	7.0	375	100nØ	10Ø	30m	30					PL†	Y202a	A
8	NSD3439	83m	10 Ø	$J	2.0	1.0	450	6.0	350	500u#	10Ø	20m	40	160	15MΔ			PL†	Y202a	A
9	NSD3440	83m	10 Ø	$J	2.0	1.0	300	6.0	250	500u#	10Ø	20m	40	160	15MΔ			PL†	Y202a	A
10	NSD6178	83m	10 Ø	$J	2.0	500m	80	5.0	75	500m	2.0Ø	500m	40	250	50MΔ			PL†	Y202a	A
11	NSD6179	83m	10 Ø	$J	2.0	500m	60	5.0	50	500m	2.0Ø	500m	40	250	50MΔ			PL†	Y202a	A
12	NSDU01	83m	1.7	$J	5.0		40	5.0	30	100nØ	1.0Ø	10m	55 #		50M§Δ			PL	Y202a	AØ
13	NSDU01A	83m	1.7	$J	5.0		50	5.0	40	100nØ	1.0Ø	10m	55 #		50M§Δ			PL	Y202a	AØ
14	NSDU05	83m	1.7	$J	5.0		60	5.0	60	100nØ	1.0Ø	50m	80 #		50M§Δ			PL	Y202a	AØ
15	NSDU06	83m	10 Ø	$J	2.0	500m	80	4.0	80	100n	1.0Ø	250m	50		50MΔ			PL†	Y202a	A
16	NSDU07	83m	10 Ø	$J	2.0	500m	100	4.0	100	100n	1.0Ø	250m	50		50MΔ			PL†	Y202a	A
17	NSDU10	83m	10 Ø	$J	2.0	1 0	300	8.0	300	200nØ	10Ø	30m	40		60MΔ			PL†	Y202a	A
18	NSE180	83m	10 Ø	$J	3.0	500m	60	5.0	40	100n	1.0Ø	100m	50	250	50MΔ			PL†	Y202a	D
19	NSE181	83m	10 Ø	$J	3 0	500m	80	5.0	60	100n	1.0Ø	100m	50	250	50MΔ			PL†	Y202a	D
20	2N5945	85m	15 Ø	§S	800m		36 †	4.0†	16	1.0mØ♦	5.0Ø	200m	20						T90	R
21	2N5995	85m§	10 Ø	§S	1.5		36	3.5	14	2.5mΔ									T78	R
22	MRF818	85m	15 Ø	§S	1.5		36 †	4.0†	16	1.0m♦Ø	5.0Ø	200m	40	200	900M#				T90	R
23	MRF823	85m	15 Ø	§S	1.5		36 †	4.0†	16	1.0mØ♦	5.0Ø	200m	20	150					W30	S
24	SD1135	85m	15 Ø	§S	1.7		36	4.0	16	1.0mØ♦	5.0Ø	500m	20						T90	
25	2N5589	86m	15 Ø	§S	600m		36 †	4.0†	18	1.0mØ♦	5.0Ø	100m	5.0		200M§Δ				T71c	R
26	2N5636	86m	15 Ø	§S	1.5		60	4.0	35	1.0mØ	5.0Ø	200m	5.0		450M§Δ				T71b	R
27	2N5641	86m	15 Ø	§S	1.0		65	4.0	35	1.0mØ	5.0Ø	100m	5.0		300M§Δ				T71b	R
28▼#	2SC2078	86m	10 Ø	$J	3.0		80	5.0	75 §	10uØ	5.0Ø	500m	25	200	150M§			PE	Y220b	D
29▼#	2SD612	86m	10 Ø	$J	2.0		25	5.0	25	1.0uØ	2 0Ø	500m	60	320	100M§			PE	TO126	B
30▼#	2SD612K	86m	10 Ø	$J	2.0		35	5.0	35	1.0uØ	2.0Ø	500m	60	320	100M§			PE	TO126	B
31	PT600Ø	86m	13 Ø	§J	2.0		60	4.0	45 §	1.0uØ	12Ø	1.0	15	45 #	210M§	2.0		PL	TO8	A
32	PT601Ø	86m	13 Ø	§J	2.0		60	4.0	45 §	1.0uØ	12Ø	1.0	30	90 #	210M§	2.0		PL	TO8	A
33	PT612	86m	2.0	§J	2.0		75	5.0	60 §	500uØ	28Ø	350m	7.5	75	60M§Δ			PL	TO8	A
34	RF2084	86m	15 Ø	§J	800m		36	4.0	16	1.0m	5.0Ø	200m	20					PE	T90	R
35	SD1145	86m	15 Ø	§J	800m		36	4.0	16	1.0m	5.0Ø	200m	20					PE	T90	R
36	2N1709	87m	2 0 Ø	§S	2.0		75	4.0	30	10uØ	28Ø	350m	7.5	75 #	150M§Δ	5.0			TO8	AØ
37	2N1710	87m	2.0 Ø	§S	2.0		60	3.0	30	50uØ	28Ø	350m	4.0	100 #	150M§Δ	5.0			TO8	AØ
38	2N5947	91m	16 Ø	§S	400m		40	3.5	30	10uØ	20Ø	75m	25	250	1.1G§Δ	1.7m		Ø	T81	R
39#	2SC1590	91m	13 Ø	§J	1.2		36	4.0	18	1.0m	10Ø	500m	15	200	350M§			E	W64	Y
40#	2SC1306	96m	12 Ø	$J	3.0 #		65	4.0	65 §	10uØ	10Ø	500m	40	150 #	300M§	600m#		E†	Y220b	DØ
41#	2SC2092*	96m	12 Ø	$J	3.0		75	4.0	75 §	10uØ	10Ø	500m	30	150 #	250M§	600m#		DE	Y220b	B
42▼	GT200	96m	12 Ø	$J	2.0		80	4.0	80 §	1.0uΔ	5.0Ø	1.0	30	150	150M§	500m		PE	Y220b	D
43	2N1072†	100m	2 0	$J	2.0 Ø	2.0		6.0	30	1 0m	5.0Ø	750mΔ	20			2.6	100nØØ		TO38	AØ
44	JAN2N1072†	100m	2.0	J	2.0 Ø		75	6.0	75 Ø	100nØ	5.0Ø	750m	20		70M§	2.7	100nØ	D△	TO38	A
45	2N2036†	100m$	10 Ø	§C	3.0	1.0	80	10	60	150u♦	4.0Ø	2.0	20	60	1.0M§Δ	500m	1.0uØØ		TO37	AØ
46	2N2631	100m	8.8 Ø	§J	1 5		80	4.0	60	100nØ					200M§			PL	TO39	AØ
47	2N2697†	100m$	10 Ø	§C	5.0	500m	80	8.0	60	100nØ♦	2.0Ø	1.0	40	120 #	20M§Δ		80nØ		T9	BØ
48	2N2698†	100m$	10 Ø	§C	5.0	500m	100	8.0	80	100nØ♦	2.0Ø	1.0	40	120 #	20M§Δ		80nØ		T9	BØ
49	2N2781	100m	15 Ø	§J	2.0		75	5 0	75 §	500uØ	28Ø	350m	7.5	75 #	140M§Δ	5.0		PL	TO8	A
50	2N2782	100m	15 Ø	§J	2.0		100	5.0	100 §	500uØ	28Ø	350m	7.5	75 #	140M§Δ	5.0		PL	TO8	A
51	2N2783	100m	15 Ø	§J	2.0		100	5.0	100 §	500uØ	28Ø	350m	7.5	75 #	140M§Δ	5.0		PL	TO8	A
52	2N2874	100m	15 Ø	§J	2.0		75	4.0	75 §	10uØ	28Ø	350m	7.5	75 #	140M§Δ	5.0		PL	TO8	A
53	JAN2N2876	100m	18 Ø	§J	2.5		80	4.0	60	100nØ	10Ø	300m	30	150 #	150M§Δ	400m			T31	
54	2N3229	100m	17	§S	2.5		105	4.0	60	100nØ	1.0Ø	2.5	5.0		150M§Δ	400m			T31	A
55	2N4040	100m	18 Ø	§C	1.0	300m	60	4.0	40	200uØ	5.0Ø	100m	10	80	400M§Δ	2.0			TO117	R
56	2N4041	100m	18 Ø	§C	1.0	300m	60	4.0	40	200uØ	5.0Ø	100m	10	80	400M§Δ	2.0			TO117	R
57	2N6408	100m	12 Ø	§J	2.0	1.0	80 †	6.0†	60	500uΔ♦	2.0Ø	100m	50	250 #	50M§Δ	1.0 #			B16	DØ
58	2N6409	100m	12 Ø	§J	2.0	1.0	100 †	6.0†	80	500uΔ♦	2.0Ø	100m	50	250 #	50M§Δ	1.0 #			B16	DØ
59#	2NJ244B*	100m	15 Ø	§J	1.5		35	3.5	20	1.0mØ	5.0Ø	500m	50 Ø					PE	W86	C
60#	2NJ244E*	100m	15 Ø	§J	1 5		35	3.5	20	1.0mØ	5.0Ø	500m	50 Ø					PE	W86	A
61#	2SC106†	100m	15 Ø	§J	1.5	1.5 Ø	60	5.0	60 §	3.0m	12Ø	200m	7.5	20 Ø	100M§	3.0	25m	PE	TO8	
62#	2SC680	100m	12 Ø	§J	2 0	1 0	200	6.0	120	10m#	10Ø	200m	60	240				D	TO66	CØ
63#	2SC680A	100m	12 Ø	§J	2.0	1.0	200	6.0	140	10m#	10Ø	200m	45	180				D	TO66	CØ
64#	2SC1040	100mØ	15 Ø	§J	1.2		45	3.0	25	500uØ	10Ø	1.0	15 #	250 #	400M§Δ			E	T59d	S
65#	2SC1059	100m	8.0 Ø	§J	150m		300	4.0	300 #		10Ø	50m	30	160	20M§			D	TO66	CØ
66#	2SC1176	100m	15 Ø	§J	1.0		40	4.5	18	100uØ	10Ø	100m	10 #		450M§			PE	TO117	
67#	2SC1409	100m	12 Ø	§J	2.0	1.0	200	6.0	120	10m#	4.0Ø	50m	35	200 *		3.0		D	B17a	D
68#	2SC1410	100m	12 Ø	§J	2.0	1.0	200	6.0	120	10m#	4.0Ø	50m	35	200 *		3.0		D	B17	D
69▼#	2SC1569	100m	12 Ø	§J	150m	150mØ	300	5 0	300	1.0uØ	10Ø	50m	40	170	100M§	10		D	B26a	D
70#	2SC1722	100m	12 Ø	§J	200m		300	5.0	300	100nØ	10Ø	50m	50	300	80M§	40		D	B17	D
71#	2SC1838	100m	15	§J	1.5					1.0m	5.0Ø	500m	50 Ø					PE	W16a	F
72#	2SC1909	100m#	10 Ø#	§J	3.0 #		75	4.0	75 §*	10uØ	10Ø	500m	20	150 #	160M§	600m#		E†	Y220b	DØ
73♦#	2SC1964	100m	1.5	§J	3.5		80	4.0	40	100uØ	10Ø	100m	10	180				PE†	B26	DØ
74#	2SC1965	100m	1.5	§J	1.0		35	4.0	17	500uØ	10Ø	100m	10 #	180 #	500M§			PE	F19	AØ
75▼#	2SC1971	100m	12 Ø	§J	2.0		35	4.0	17	500uØ	10Ø	100m	10	180				PE†	B26	C
76▼#	2SC2166	100m	1.5	§J	4.0		75	5.0	75 §	100uØ	10Ø	100m	35	180				PE†	B26	DØ
77#	2SD78A	100m	15 Ø	§J	2.0		100	12	80	1.0uØ	2.0Ø	500m	40	160 #		600m#		E	TO5	AØ
78#	2SD79	100m$	15 Ø	§J	2.0	1.0	100	12	60	1.0uØ	2.0Ø	500mØ	40	160				PE	F19	
79#	2SD141	100m	15 Ø	§J	3.0	500m	20	5.0	12	100uØ	2.0Ø	1.0	30	240 #		300m		PE	F6	
80	2005*	100m	17 Ø	§J	1.0 †			4.0†	50 Ø										W24	A
81	40422	100m	8.0 Ø	§J	150m	150m	300	2.0	300 #	100u	10Ø	50m	50	250	25M§Δ			PL	TO66	AØ
82	40424	100m	8.0 Ø	§J	150m	150m	300	2.0	300 #	100u	10Ø	50m	30	150	25M§Δ			PL	TO66	AØ
83	40426	100m	8.0 Ø	§J	150m	150m	300	2.0	300 #	100u	10Ø	50m	20	100	25M§Δ			PL	TO66	AØ
84	40491	100m#	3.8 Ø	§A	150m	150mØ	300	2.0	300	100u	10Ø	50mØ	30	250	25M§				TO66	
85	40546	100m	8.0 Ø	§J	150m	150m		2.0	250 #	100u	10Ø	50m	50	150	25M§			D	TO66	CØ
86	40547	100m	8.0 Ø	§J	150m	150m		2.0	250 #	100u	10Ø	50m	20	250	25M§			D	TO66	CØ
87#	BD135	100m	6.5 Ø	♦J	500m		45	5.0	45	100nØ	2.0Ø	150m	40	250	50M§Δ	1.0		PE	B16p	B
88	BD135Ø	100m	1.2	♦J	1.5		45	5.0	45	100nØ♦	2 0Ø	5.0m	40	250 #		1.0 #		†	B16f	B
89#	BD137	100m	6.5 Ø	♦J	500m		60	5.0	60	100nØ	2.0Ø	150m	40	160	50M§Δ	1.0		PE	B16p	B
90	BD137Ø	100m	1.2	♦J	1.5		60	5.0	60	100nØ♦	2 0Ø	5.0m	40	160 #		1.0 #		†	B16f	B
91#	BD139	100m	6.5 Ø	♦J	500m		80	5.0	80	100nØ	2.0Ø	150m	40	160	50M§Δ	1.0		PE	B16p	B
92	BD139Ø	100m	1.2	♦J	1.5		80	5.0	80	100nØ♦	2.0Ø	5.0m	40	160 #		1.0 #		†	B16f	B
93#	BF457	100m	1.2	$J	100m	50m#	200	5.0†	160	50nØ♦	10Ø	30m	25	50 Ø	90M§	20		PE†	B16p	B
94	BF457Ø	100m	1.2	$J	100m	50m	160	5.0	160	50nØ♦	10Ø	30m	25		90M§	33		PL	B16f	B
95#	BF458	100m	1.2	$J	100m	50m#	250 †	5.0†	250	50nØ♦	10Ø	30m	25	50 Ø	90M§	20		PE†	B16p	B
96	BF458Ø	100m	1.2	$J	100m	50m	250	5.0	250	50nØ♦	10Ø	30m	25		90M§	33		PL	B16f	B
97#	BF459	100m	1.2	$J	100m	50m#	300 †	5.0†	300	50nØ♦	10Ø	30m	25	50 Ø	90M§	20		PE†	B16p	B
98	BF459Ø	100m	1.2	$J	100m	50m	300	5 0	300	50nØ♦	10Ø	30m	25		90M§	33		PL	B16f	B
99#	BLY14	100m	8.7	ØJ	1.0	200m	80	4.0	80 Ø	5.0u	10	500m	11 †		190M§			PE	T55	
100	BLY87A	100m	17 Ø	§J	1.2		36	4.0	18	5.0mΔ	5.0Ø	500m	5.0		700M§			PE	T72m	R
101	D10-28B	100m	17 Ø	§J	1.0		50	4.0	50 Ø						900M#				T91	R
102	D42C1†	100m	2.1	$J	3 0			5.0	30	10u§	1.0Ø	200m	25		50M§	500m	100nØ	†	B15b	BØ
103	D42C2†	100m	2.1	$J	3.0			5.0	30	10u§	1.0Ø	200m	40	120	50M§	500m	100nØ	†	B15b	BØ
104	D42C3†	100m	2.1	$J	3.0			5 0	30	10u§	1.0Ø	200m	40	120	50M§	500m	100nØ	†	B15b	BØ
105	D42C4†	100m	2.1	$J	3.0			5.0	45	10u§	1.0Ø	200m	25		50M§	500m	100nØ	†	B15b	BØ
106	D42C5†	100m	2.1	$J	3.0			5.0	45	10u§	1 0Ø	200m	40	120	50M§	500m	100nØ	†	B15b	BØ
107	D42C6†	100m	2.1	$J	3.0			5 0	45	10u§	1.0Ø	200m	40	120	50M§	500m	100nØ	†	B15b	BØ
108	D42C7†	100m	2.1	$J	3.0			5.0	60	10u§	1.0Ø	200m	25		50M§	500m	100nØ	†	B15b	BØ
109	D42C8†	100m	2.1	$J	3.0			5.0	60	10u§	1.0Ø	200m	40	120	50M§	500m	100nØ	†	B15b	BØ
110	D42C9	100m	2.1	$J	3.0			5.0	60	10u§	10Ø	200m	40		50M§	500m	100nØ	†	B15b	BØ

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	BIAS Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	MJE220	120m	1.5	§J	4.0	1.0	60	7.0	40	100n	1.0Ø	200m	40	200	50M§△	600m		△	B6	B
2	MJE221	120m	1.5	§J	4.0	1.0	60	7.0	40	100n	1.0Ø	200m	40	150	50M§△	600m		△	B6	B
3	MJE222	120m	1.5	§J	4.0	1.0	60	7.0	40	100n	1.0Ø	200m	25		50M§△	600m		△	B6	B
4	MJE223	120m	1.5	§J	4.0	1.0	80	7.0	60	100n	1.0Ø	200m	40	200	50M§△	600m		△	B6	B
5	MJE224	120m	1.5	§J	4.0	1.0	80	7.0	60	100n	1.0Ø	200m	40	150	50M§△	600m		△	B6	B
6	MJE225	120m	1.5	§J	4.0	1.0	80	7.0	60	100n	1.0Ø	200m	25		50M§△	600m		△	B6	B
7	MJE240	120m	1.5	§J	4.0	1.0	80	7.0	80	100n	1.0Ø	200m	40	200	40M§△	600m		△	B6	B
8	MJE241	120m	1.5	§J	4.0	1.0	80	7.0	80	100n	1.0Ø	200m	40	120	40M§△	600m		△	B6	B
9	MJE242	120m	1.5	§J	4.0	1.0	80	7.0	80	100n	1.0Ø	200m	25		40M§△	600m		△	B6	B
10	MJE243	120m	1.5	§J	4.0	1.0	100	7.0	100	100n	1.0Ø	200m	40	120	40M§△	600m		△	B6	B
11	MJE244	120m	1.5	§J	4.0	1.0	100	7.0	100	100n	1.0Ø	200m	25		40M§△	600m		△	B6	B
12	MJE2050	120m	15 Ø	§J	5.0			4.0	45 §		1.0Ø	1.8	50						B6	B
13	MJE3439	120m	15 Ø	§J	300m	150m	450	5.0	350	20uØ	10Ø	20m	30		15M§△	10			B16	B
14	MJE3440	120m	15 Ø	§J	300m	150m	350	5.0	250	20uØ	10Ø	20m	40	160	15M§△	10			B16	B
15	TIP61†	120m$	1.5	§J	500m†	400m	40 †	5.0†	40	300u△♦	4.0Ø	500m	15	100 #	3.0M§△	1.4 #	20uØ	DM	B1	AØ
16	TIP61A†	120m$	1.5	§J	500m†	400m	60 †	5.0†	60	300u△♦	4.0Ø	500m	15	100 #	3.0M§△	1.4 #	20uØ	DM	B1	AØ
17	TIP61B†	120m$	1.5	§J	500m†	400m	80 †	5.0†	80	300u△♦	4.0Ø	500m	15	100 #	3.0M§△	1.4 #	20uØ	DM	B1	AØ
18	TIP61C†	120m$	1.5	§J	500m†	400m	100 †	5.0†	100	300u△♦	4.0Ø	500m	15	100 #	3.0M§△	1.4 #	20uØ	DM	B1	AØ
19	2N3138	125m	20 Ø	§S	2.0	200m	65	1.0	65	100uØ	10Ø	1.0	10		10M§△				T24	
20	2N3139	125m	20 Ø	§S	2.0	200m	140	1.0	140	100uØ	10Ø	1.0	10		10M§△				T24	
21	2N3140	125m	20 Ø	§S	2.0	200m	65	1.0	65	100uØ	10Ø	1.0	10		10M§△				T24	
22	2N3141	125m	20 Ø	§S	2.0	200m	140	1.0	140	100uØ	10Ø	1.0	10		10M§△				T24	
23♦#	2SC1501	125m	10 §	§J	100m		300	5.0	300 §	100u	10Ø	10m	30		55M§			†	TO126	B
24♦#	2SC1792	125m	22 Ø	§J	2.0		45	4.0	23	1.0mØ	10Ø	500m	15	250	800M§			E	T59d	S
25▼#	2SC2085	125m	10 Ø§	§J	150m#		300	5.0	300 §	100u	10Ø	10m	30		55M§	50			B26	D
26	MJ2251	125m☑	10 Ø	§J	500m			6.0	225	100uØ	10Ø	50m	25	200	10M§△				TO66	CØ
27	MJ2252	125m☑	10 Ø	§J	500m			6.0	300	100uØ	10Ø	50m	25	200	10M§△				TO66	CØ
28	ST15008	125m$	125 Ø	§J	40	8.0	125	12	80	10u	5.0Ø	40	10		10M§△	60m		PE	TO63	
29	2N3927	128m	23 Ø	§S	3.0		36	4.0	18	250uØ					200M§△				TO60	AØ
30#	2SC488	128m	16 Ø	§J	3.0		140	5.0	110	3.0mØ	5.0Ø	500m△	80 †		10M§			DM	TO66	
31#	2SC489	128m	16 Ø	§J	3.0	3.0 Ø	100	5.0	80	120uØ	5.0Ø	500m	20	200 *	10M§	500m		DM	TO66	CØ
32#	2SC1337A	130mØ	20 Ø	§J	2.0		35	4.5	17	200uØ	10Ø	100m	10	180 #	1.0G§			PE	TO129	R
33	2N3632	131m	23 Ø	§C	3.0 †	400m	65 †	4.0†	40	500u♦	5.0Ø	250m	10	150		1.0			TO60	A
34	2N3733	131m	23 Ø	§C	1.0	400m	65	4.0	40	500u	5.0Ø	250m	10	150	250M§△	1.0			TO60	A
35	2N5215	131m	23 Ø	§C	1.0	500m	70	4.0	70	500u♦Ø	5.0Ø	500m	10	80	400M§	500m			TO60	A☑
36	40307	131m	23 Ø	§J	3.0		65	4.0	40	250n△	5.0Ø	300m	10					PE	TO60	A
37	40665	131m	23 Ø	§J	1.0		65	4.0	40	250u△					400M§	2.0		E	TO60	A☑
38	SDT6113†	131m	23	§J	10	4.0	65	4.0	30		5.0Ø	5.0	10 #		350M§△		75nØ☑		TO60	
39	SDT6114†	131m	23	§J	10	4.0	65	4.0	40		5.0Ø	5.0	10 #		350M§△		75nØ☑		TO60	
40	SDT6115†	131m	23	§J	10	4.0	65	4.0	50		5.0Ø	5.0	10 #		350M§△		75nØ☑		TO60	
41	2N1718	133m	2.0	§J	750m	750mØ	90	6.0	60	1.0uØ	5.0Ø	200mØ	20	60 #	16M§△				T13	AØ
42	2N1719	133m	2.0	§J	750m	750mØ	150	6.0	100	1.0uØ	5.0Ø	200mØ	20	60 #	16M§△				T13	AØ
43	2N1720	133m	2.0	§J	750m	750mØ	90	6.0	60	1.0uØ	5.0Ø	200mØ	40	120 #	16M§△				T13	AØ
44	2N1721	133m	2.0	§J	750m	750mØ	150	6.0	100	1.0uØ	5.0Ø	200mØ	40	120 #	16M§△				T13	AØ
45	2N2196	133m$	2.0	§C	1.0	500m	80	8.0	60 §	75u	10Ø	200m	30	90 #		10 #			F8	AØ
46	2N2197	133m$	2.0	§C	1.0	500m	80	8.0	60 §	75u	10Ø	200m	75	200 #		10 #			F8	AØ
47	2N2849-3	133m	10 Ø§	ØJ	3.0	1.0	100	5.0	80	100nØ	1.0Ø	1.0	100	300	80M	400m	100n	PE	T13	
48	2N2850-3	133m	10 Ø§	ØJ	3.0	1.0	100	5.0	80	100nØ	1.0Ø	1.0	40	120	60M	250m	100n	PE	T13	
49	2N2851-3	133m	10 Ø§	ØJ	3.0	1.0	100	5.0	80	100nØ	1.0Ø	1.0	40	120	60M	400m	100n	PE	T13	
50	2N2852-3	133m	10 Ø§	ØJ	3.0	1.0	100	5.0	80	100nØ	1.0Ø	1.0	20	60	40M	400m	100n	PE	T13	
51	2N2853-3	133m	10 Ø§	ØJ	3.0	1.0	60	5.0	40	100nØ	1.0Ø	1.0	40		60M	500m	100n	PE	T13	
52	2N2854-3	133m	10 Ø§	ØJ	3.0	1.0	60	5.0	40	100nØ	1.0Ø	1.0	100	300	80M	400m	100n	PE	T13	
53	2N2855-3	133m	10 Ø§	ØJ	3.0	1.0	60	5.0	40	100nØ	1.0Ø	1.0	40	120	60M	400m	100n	PE	T13	
54	2N2856-3	133m	10 Ø§	ØJ	3.0	1.0	60	5.0	40	100nØ	1.0Ø	1.0	20	60	40M	400m	100n	PE	T13	
55	2N2995	133m$	1.5	§C	1.0	500m	120	10	100	50u	30	30m	30 †	100	10M§△				T20a	AØ
56	2N3738	133m	20 Ø	§J	250m	500m	250	6.0	225	100u	10Ø	100mØ	40	200	10M§△	10			TO66	CØ
57	2N3739	133m	20 Ø	§J	250m	500m	325	6.0	300	100u	10Ø	100mØ	40	200	10M§△	10			TO66	CØ
58	2N3766	133m	20 Ø	§J	1.0	2.5	80 †	6.0†	60	100u♦	10Ø	500m	40	160	10M§△	2.5			TO66	CØ
59	2N3767	133m	20 Ø	§J	1.0	2.5	100 †	6.0†	80	100u♦	10Ø	500m	40	160	10M§△	2.5			TO66	CØ
60	2N5101	133m$	10 Ø	§A	1.0	500m	500	6.0	400	5.0mØ	10Ø	100m	15	250	50M§△	20			F8	AØ
61	2N6391	133m#	16 Ø	§S	2.5		50 †	3.5†	50 §	3.0m§♦	10Ø	200m	20	120					W24	AC
62#	2SC92	133m	20 Ø	§J	2.0		100	5.0	50	100uØ	10Ø	350m	10	100 #	190M§	2.0		PE	TO8	
63#	2SC93	133m	20 Ø	§J	2.0		80	5.0	45	100uØ	10Ø	350m	10 #	35 Ø	190M§	2.0		PE	TO8	
64#	2SC94	133m	20 Ø	§J	2.0		100	5.0	50	100uØ	10Ø	350m	10 #	35 Ø	190M§	2.0		PE	TO8	
65♦#	2SC515A	133m	20 Ø	§J	150m	150mØ	300	5.0	300	10u	10Ø	50m	40	170	100M§	4.0		DPL	TO66	C
66#	2SC551	133m	20 Ø	§J	3.0		65	4.0	40	250u#	30Ø	300m	10		350M§	2.0		PE	TO60	
67#	2SC553	133m	20 Ø	§J	3.0		65	4.0	40	250u#	30Ø	300m	10		400M§	2.0		PE	TO60	
68#	2SC585	133m	20 Ø	§J	3.0		65	4.0	40	12uØ	28	200m△	30 Ø		400M§	2.0		PE	T68	A
69#	2SC591	133m	20 Ø	§J	4.5		100	4.0	250	100uØ	10Ø	150m	10	70	150M§	1.6		PE	TO8	AØ
70#	2SC600	133m	20 Ø	§J	3.0		65	4.0	40	12uØ	28Ø	200m	30 †		400M§	2.0		PE	T68	A
71#	2SC636	133m	20 Ø	§J	3.0		65	4.0	40	5.0uØ	10Ø	500m	20	200	400M§			PE	TO60	
72#	2SC638	133m	20 Ø	§J	2.0		40	4.0	20	20uØ	14Ø	1.0	20 #		400M§			PE	T68	A☑
73#	2SC975A	133m	20 Ø	§J	1.5		40	5.0	40 §	100uØ	10Ø	100m	20 #	180 #	1.2G§			PE†	T83	V☑
74♦#	2SC1075	133m	20	§J	4.0 #		36	4.0	18	10u	13Ø	400m	15	60 Ø	800M§			PE	T98	
75#	2SC1337	133m	20 Ø	§J	2.0		35	4.5	17	200uØ	10Ø	100m	10	180 #	1.0G§			PE	TO129	
76#	2SC1414	133m	20 Ø	§J	2.0		40	3.5	35 §	400uØ	5.0Ø	1.0	80 Ø		1.5G§			PE	T129	GE
77#	2SC1525*	133m	20 Ø	§J	2.0		50	3.5	30	400uØ	5.0	1.0	50 Ø		800M§			PE	T129a	GE
78#	2SC1967	133m	20 Ø	§J	2.0		35	4.0	17	200uØ	10Ø	100m	10 #	180 #	1.0G§			PE		
79#	2SD48	133m	20 Ø	§J	3.0	1.0	100	10	55	15uØ	4.0Ø	750m	20	80	1.5M†			D	TO8	
80#	2SD146	133m	20 Ø	§J	1.0		40	5.0	35	20uØ	4.0Ø	500m	30	150 *	1.4M†	2.0		D	F6b	
81#	2SD147	133m	20 Ø	§J	1.0		60	5.0	50	20uØ	4.0Ø	500m	20	150 *	1.4M†	2.0		D	F6b	
82#	2SD148†	133m	20 Ø	§J	2.0		70	5.0	70 #	20uØ	4.0Ø	2.0 Ø	35 Ø		1.2M§	500m	1.3u	DΔ	F12a	AØ
83#	2SD155	133mØ	20 Ø	§J	3.0	1.0	80	5.0	60	1.0mØ	2.0Ø	2.0	4.0	145				ME	TO66	CØ
84#	2SD255	133mØ	20 Ø	§J	3.0	1.0	70	5.0	50	1.0mØ	2.0Ø	2.0	30 #	150 #				EM	TO66	CØ
85#	2SD580	133m	20	§J	1.0		60	5.0	50	20u	4.0Ø	500m	70 Ø		1.2	2.0			TO8	AØ
86	3TX617	133m			1.2	300m	65	4.0	50	250u					300M			PE	T59	
87	40282	133m	23 Ø	§J	2.0		36	4.0	18	250u△					350M§			PE	TO60	A☑
88	40292	133m	23 Ø	§J	1.2			4.0	50 #*	250u△					300M§			PE	TO60	AØ
89#	BD124†	133m☑	15 Ø	§J	2.0	500m#	70	6.0	45	2.0uØ	5.0Ø	500m	35	150	60M§△	500m	75n	PE	F9c	CØ
90#	BLX97	133m	12 Ø	§J	800m		40	3.5	27	200uØ	20Ø	400m	30		1.2G§△	1.8		PE	T84	GJ
91#	BLY53A	133m♦	8.0 Ø	§S	1 0		36	4.0	18		5.0Ø	500m	10	40 Ø	800M§	400m		PE	T84	GJ
92#	BUY71	133m	10 Ø	#J	2.0	2.0	2.2k	5.0	800	1.0m#					4.0M§		700n#	DM	TO3	
93	MJ2249	133m	20 Ø	§J	2.0	500m	60	6.0	60	1.0m	4.0Ø	100m	25	200 *	10M§△	2.5		△	TO66	CØ
94	MJ2250	133m	20 Ø	§J	2.0	500m	80	6.0	80	1.0m	4.0Ø	100m	25	200 *	10M§△	2.5		△	TO66	CØ
95	MJ3101	133m	20 Ø	§J	2.0	500m	50	6.0	40	1.0m	4.0Ø	100m	25	200 *	10M§△	3.3		△	TO66	CØ
96	PT665	133m	20 Ø	§J	2.0		75	4.0	60 §	10uØ	28Ø	350m	7.5	75 #	210M§			PL	T39	
97	PT665A	133m	20 Ø	§J	2.0		100	5.0	90 §	10uØ	28Ø	350m	7.5	75 #	150M§△	5.0		PL	T39	
98	SPT3738	133m	20	§J	3.0	1.0	250	6.0	225 ☑	500u#	10Ø	250m	50		10M§△	10		△	TO66	
99	TRS2006	133m	20 Ø	§	1.0	500m	200	6.0	200 §	100u	10Ø	50m	30	300	50M				TO66	
100	TRS3006	133m	20 Ø	§	1.0	500m	300	6.0	300 §	100u	10Ø	50m	30	300	50M				TO66	
101	TRS4006	133m	20 Ø	§	1.0	500m	400	6.0	400 §	100u	10Ø	50m	30	300	50M				TO66	
102	TRS4016S	133m	20 Ø	§	1.0	500m	450	6.0	400	100u	10Ø	50m	30	300	50M				TO66	
103	TRS4506	133m	20 Ø	§	1.0	500m	450	6.0	450 §	100u	10Ø	50m	30	300	50M				TO66	
104	TRS5006	133m	20 Ø	§	1.0	500m	500	6.0	500 §	100u	10Ø	20m	30	300	50M				TO66	
105	TRS6006	133m	20 Ø	§	1.0	500m	600	6.0	600 §	100u	10Ø	20m	30	300	50M				TO66	
106	TRS7006	133m	20 Ø	§	1.0	500m	700	6.0	700 §	100u	10Ø	20m	30	300	50M				TO66	
107	TRS8006	133m	20 Ø	§	1.0	500m	800	6.0	800 §	100u	10Ø	20m	30	300	50M				TO66	
108	XGSA3025†	133m$	10 Ø	§J	5.0	1.0	300	8.0	250	250uØ	5.0Ø	3.0	10 #		25M§△	333m#	100nØ☑	DPL	TO5	
109	XGSA3030†	133m$	10 Ø	§J	5.0	1.0	350	8.0	300	250uØ	5.0Ø	3.0	10 #		25M§△	333m#	100nØ☑	DPL	TO5	
110	XGSA3035†	133m$	10 Ø	§J	5.0	1.0	400	8.0	350	250uØ	5.0Ø	3.0	10 #		25M§△	333m#	100nØ☑	DPL	TO5	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LCEOADE
1	2N5488-1†	154m	1.2		5.0	1.0	150	8.0	100	10u§	5.0Ø	5.0	15		40M§	2.0	.55u†	PE	TO5	
2	2N5488-3†	154m	1.5		5.0	1.0	150	8.0	100	10u§	5.0Ø	5.0	15		40M§	2.0	.55u†	PE	T32	
3	2N5552-4†	154m	15		10	2.0	120	8.0	80	.20u§	5.0Ø	10	30		25M§	1.0	.70u†	PE	T20	
4	2N4864	160m§	16 Ø	§J	2.0	500m	140	8.0	120	100nØ	5.0Ø	500m	50	150 #	50M§Δ	500m			TO66	CØ
5	2N5655	160m	20 Ø	§J	500m	250m	275 †	6.0†	250	10u	10Ø	100m	30	250	10M§Δ	10m			B16	BØ
6	2N5656	160m	20 Ø	§J	500m	250m	325 †	6.0†	300	10u	10Ø	100m	30	250	10M§Δ	10m			B16	BØ
7	2N5657	160m	20 Ø	§J	500m	250m	375 †	6.0†	350	10u	10Ø	100m	30	250	10M§Δ	10m			B16	BØ
8#	2SC508	160m	20 Ø	§J	4.0	4.0 Ø	180	5.0	180 Ø	120uØ	5.0Ø	4.0	20	40 Ø	25M†	500m		DM	TO66	CØ
9#	2SC779	160m	20	§J	2.0	1.0	300	6.0	250	100uØ	10Ø	100m	30	80 Ø				ME	TO66	
10#	2SC782	160m	20 Ø	§J	1.5	1.5 Ø	300	5.0	300	100uØ	10Ø	100m	30	250	10M§	1.8		DM	TO66	CØ
11#	2SC783	160m	20 Ø	§J	1.5	1.5 Ø	200	5.0	200	100u	10Ø	100m	30	250	10M§	1.8		DM	TO66	CØ
12#	2SC840	160m	20 Ø	§J	2.0	1.0 #	100	5.0	60	5.0m	3.0Ø	1.0	30		50M§	750m		DM	TO66	CØ
13#	2SC840A	160m	20 Ø	§J	2.0	1.0 #	150	5 0	100	5.0mØ	3.0Ø	1.0	30		50M§	750m		DM	TO66	CØ
14#	2SC1104	160mØ	20 Ø	§J	700m		300	5 0	300	100uØ	10Ø	400m	40	200				ME	TO66	CØ
15#	2SC1304	160m	20	§J	500m		300	5.0	300		10Ø	100m	50	200		5.0		D	TO66	CØ
16#	2SC1418	160m	20 Ø	§J	2.0		50	4.0	50	100uØ	4.0Ø	1.0	35	320 *	5.0M§	866m		D	B17a	D
17#	2SC1419	160m	20 Ø	§J	2.0		50	4.0	50	100uØ	4.0Ø	1.0	35	320 *	5.0M§	866m		D	B17	D
18#	2SC1450	160m	20	§J	1.2 #		150	5.0	150 §	30u	5.0Ø	100m	30	150				DM	TO66	CØ
19♦#	2SC1683	160m	20	§J	500m		200	5.0	150	50u	10Ø	400m	60	200	150M§	2.0		†	B17	D
20#	2SC1816	160m	16 Ø	♦J	4.0	800m	100	6.0	60	1.0uØ	2.0	100m	28	252	140M§			E	Y220b	D
21♦#	2SC1945	160m	20 Ø	§J	6.0		80	5.0	40	100uØ	10Ø	100m	20	180				PE†	B26	C
22♦#	2SC1969	160m	20 Ø	§J	6 0		60	5.0	25	100uØ	12Ø	10m	10	180				PE†	B26	DØ
23#	2SD90	160m	20 Ø		3 0		30	10	20		4.0Ø	1.0	20	40 Ø				D	F5b	C
24#	2SD91	160m	20 Ø		3.0		60	10	40		4.0Ø	1 0	20	40 Ø				D	F5b	C
25#	2SD92	160m	20 Ø		3.0		100	10	55		4.0Ø	1.0	20	40 Ø				D	F5b	C
26#	2SD93	160m	20 Ø		3.0		150	10	70		4 0Ø	1.0	20	40 Ø				D	F5b	C
27#	2SD94	160m	20 Ø		3.0		200	10	80		4.0Ø	1.0	20	40 Ø				D	F5b	C
28#	2SD288	160mØ	20 Ø	§J	2.0		80	5.0	55	50u	5.0Ø	500m	40	250 #				DM	B17	DØ
29#	2SD289	160mØ	20 Ø	§J	2.0		80	5.0	55	50u	5.0Ø	500m	40	250 #				DM	B17	DØ
30#	2SD381	160m	20 Ø	§	1.5		140	5.0	120	1.0u	5.0Ø	300m	40	250 #				E	Y220b	DØ
31#	2SD382	160m	20 Ø	§	1.5		140	5.0	120	1 0u	5.0Ø	300m	40	250 #				E	Y220a	DØ
32#	2SD401	160m	20 Ø	§	2.0		200	5.0	150	50uØ	10Ø	400m	40	200				ME	Y220b	DØ
33#	2SD402	160m	20 Ø	§	2.0		200	5.0	150	50uØ	10Ø	400m	40	200				ME	Y220a	DØ
34#	2SD608	160m	20 Ø	§J	1.5		160	5 0	160	1.0uØ	5.0Ø	300m	40 *	200 #	45M§	2.0 #		E	Y220b	XØ
35	BD157	160m	20 Ø	§J	500m†	250m	275 †	5.0†	250	100u♦	10Ø	50m	30	240				†	TO126	B
36	BD157Ø	160m	20 Ø	§J	500m	250m	275	5.0	250	100u♦	10Ø	50m	30	240				†	B16	B
37	BD158	160m	20 Ø	§J	500m†	250m	325 †	5.0†	300	100u♦	10Ø	50m	30	240				†	TO126	B
38	BD158Ø	160m	20 Ø	§J	500m	250m	325	5.0	300	100u♦	10Ø	50m	30	240				†	B16	B
39	BD159	160m	20 Ø	§J	500m†	250m	375 †	5.0†	350	100u♦	10Ø	50m	30	240				†	TO126	B
40	BD159Ø	160m	20 Ø	§J	500m	250m	375	5.0	350	100u♦	10Ø	50m	30	240				†	B16	B
41#	BD165	160m	20 Ø	§J	1.5	500m	45	5.0	45	100u	2.0Ø	150m	40		3.0M§Δ	1.0		†	TO126	BØ
42	BD165Ø	160m	1.2	§J	1 5	500m	45	5.0	45	100u♦	2 0Ø	150m	40 #		6.0M§Δ	1.0 #		†	B16f	B
43#	BD167	160m	20 Ø	§J	1.5	500m	60	5.0	60	100u	2.0Ø	150m	40		3.0M§Δ	1.0		†	TO126	BØ
44	BD167Ø	160m	1 2	§J	1 5	500m	60	5.0	60	100u♦	2 0Ø	150m	40 #		6.0M§Δ	1 0 #		†	B16f	B
45#	BD169	160m	20 Ø	§J	1.5	500m	80	5.0	80	100u	2.0Ø	150m	40		3.0M§Δ	1.0		†	TO126	BØ
46	BD169Ø	160m	1 2	§J	1.5	500m	80	5.0	80	100u♦	2.0Ø	150m	40 #		6.0M§Δ	1.0 #		†	B16f	B
47	BD171	160m	20 Ø	§J	500m	250m	100	5.0	90	100u♦	10Ø	50m	40	60 Ø	6.0M§	10 #		†	B16	B
48	BD172	160m	20 Ø	§J	500m	250m	130	5.0	120	100u♦	10Ø	50m	40	60 Ø	6.0M§	10 #		†	B16	B
49	BD173	160m	20 Ø	§J	500m	250m	170	5 0	160	100u♦	10Ø	50m	40	60 Ø	6.0M§	10 #		†	B16	B
50	BD232Ø	160m	20 Ø	§J	500m	250m		5.0	300	100u§♦	5.0Ø	50m	25	150		6.6		†	B16f	B
51	MJE720	160m	1.2	§J	1.5	500m	40	5.0	40	500uΔ	1.0Ø	150m	40			1.0			B16c	B
52	MJE721	160m	1.2	§J	1.5	500m	60	5.0	60	500uΔ	1 0Ø	150m	40			1.0			B16c	B
53	MJE722	160m	1.2	§J	1 5	500m	80	5.0	80	500uΔ	1.0Ø	150m	40			1.0			B16c	B
54▼	MRF321*	160m	27 Ø	§S	1.1		60 §	4.0§	33 §	1.0mØ	5.0Ø	500m	20	80	400M#				T144	R
55	PT2044	160m	20 Ø	S	5 0	2.0	50	8.0	30	100m	5.0	1 0	20		100M§			PE	B15b	B
56	PT2045	160m	20 Ø	S	5.0	2.0	65	8.0	45	100m	5.0	1.0	20		100M§			PE	B15b	B
57	PT2046	160m	20 Ø	S	5.0	2.0	80	8.0	60	100m	5.0	1.0	20		100M§			PE	B15b	B
58	PT2047	160m	20 Ø	S	5.0	2.0	100	8.0	80	100m	5 0	1.0	20		100M§			PE	B15b	B
59	STI1506	160m	20 Ø	§J	1.0	100m	150	5.0	150	100u	5.0	50m	30		10M§			PL	TO66	
60	STI2006	160m	20 Ø	§J	1 0	100m	200	5.0	200	100u	5.0	50m	30		10M§			PL	TO66	
61	STI2506	160m	20 Ø	§J	1.0	100m	250	5.0	250	100u	5 0	50m	30		10M§			PL	TO66	
62	STI3006	160m	20 Ø	§J	1.0	100m	300	5.0	300	100u	5.0	50m	30		10M§			PL	TO66	
63	STI3007	160m	20 Ø	§J	1.0	100m	300	5.0	300	50u	5.0	50m	30		20M§			PL	TO66	
64	STI4006	160m	20 Ø	§J	1.0	100m	400	5.0	400	100u	5.0	50m	30		10M§			PL	TO66	
65	STI4007	160m	20 Ø	§J	1.0	100m	400	5.0	400	50u	5.0	50m	30		20M§			PL	TO66	
66	STI5006	160m	20 Ø	§J	1.0	100m	500	5.0	500	100u	5.0	50m	30		10M§			PL	TO66	
67	STI5007	160m	20 Ø	§J	1.0	100m	500	5.0	500	50u	5.0	50m	30		20M§			PL	TO66	
68	STI6006	160m	20 Ø	§J	1.0	100m	600	5.0	600	100u	5.0	50m	30		10M§			PL	TO66	
69	STI6007	160m	20 Ø	§J	1.0	100m	600	5.0	600	50u	5.0	50m	30		20M§			PL	TO66	
70	STI7006	160m	20 Ø	§J	1.0	100m	700	5.0	700	100u	5.0	50m	25		10M§			PL	TO66	
71	STI7007	160m	20 Ø	§J	1.0	100m	700	5.0	700	50u	5.0	50m	30		20M§			PL	TO66	
72	STI8006	160m	20 Ø	§J	1.0	100m	800	5.0	800	100u	5.0	50m	25		10M§			PL	TO66	
73	TIP63	160m	20 Ø	§J	500m	300m	350	5.0	300		10Ø	50m	30	240	15M§Δ	2.4	300nØ		B1	B
74	TIP64	160m	20 Ø	§J	500m	300m	400	5 0	350		10Ø	50m	30	240	15M§Δ	2.4	300nØ		B1	B
75#	2SC1565	165m♦	10 ♦	§J	250m		150	5 0	150	30u	10Ø	100m	60	240				PL	TO126	B
76	2N2948	166m	25 Ø	§C	1.5	500m	40	2.0	40 Ø	1.0uØ	2.0Ø	400m	2.5	100 #	100M§Δ	500m			TO3	CØ
77	2N3818	166m	25 Ø	§J	1.0	1.0	60	4 0	60 Ø	1.0uØ	2.0Ø	400m	5.0	50	150M§Δ				TO60	A
78	2N4273	166m	25 Ø	§C	2.5	1.5	175	9.0	140	100nØ	10Ø	1.0	20	140 #	10M§Δ				TO66	AØ
79	2N6260	166m	29 Ø	§J	3.0	2.0	50	5.0	40	1.0mΔ♦	4.0Ø	1.5	20	100 #	30kΔ				TO66	CØ
80#	2SC1177	166m	25 Ø	§J	2.5		40	4.5	18	1.0mØ	10Ø	100m	10	180 #	450M§			PE	TO117	
81#	2SC1415	166m	25 Ø	§J	3.0		40	3.5	35 §	600uØ	5.0Ø	2 0	80 Ø		1.2G§			PE	T129	GE
82#	2SC1526*	166m	25 Ø	§J	3.0		50	3 5	30	600uØ	5.0	2.0	50 Ø		1.0G§			PE	T129a	GE
83#	2SC1535*	166m	25	§J	2.0		45	3.5	23	400uØ	5.0Ø	1.0	50 Ø		1.2G§			PE	T129a	GE
84#	2SC1563*	166m	25	§J	2.0		55	3.5	35	400uØ	5.0Ø	1.0	50 Ø		1.2G§			PE	T129a	GE
85♦#	2SC1800	166m	29 Ø	§J	3.0		50	3.5	50 §	500uØ	10Ø	500m	20	150				E	W77	F
86#	2SC1823*	166m	25	§J	2.0		55	3.5	35	400uØ	5.0Ø	1.0	50 Ø					PE	T129a	GE
87#	2SD160†	166m	25 Ø	§J	1.5		100	8 0	55	10uØ	10Ø	750mØ	50 Ø			1.0	1.0u	D	TO8	AØ
88#	2SD184†	166m	25 Ø	§J	1.5		60	12	40	10uØ	4.0Ø	750m	20	100	1.5M†	2.0	500n§	ME	TO8	
89#	2SD185†	166m	25 Ø	§J	1.5		100	12	55	10uØ	4.0Ø	750m	20	100	1.5M†	1.0	500n§	ME	TO8	
90	1571-0420	166m	29 Ø	§J	4.0	2.0	40	7 0	40	1.0 #	4.0Ø	500m	20		800k§Δ	2.0		D	TO66	CØ
91	1571-0425	166m	29 Ø	§J	4.0	2 0	40	7.0	40	1 0 #	4 0Ø	500m	25		800k§Δ	2.0		D	TO66	CØ
92	1571-0620	166m	29 Ø	§J	4.0	2 0	60	7.0	60	1.0 #	4.0Ø	500m	20		800k§Δ	2.0		D	TO66	CØ
93	1571-0820	166m	29 Ø	§J	4.0	2.0	80	7 0	80	1.0 #	4.0Ø	500m	20		800k§Δ	2.0		D	TO66	CØ
94	1571-0825	166m	29 Ø	§J	4.0	2.0	80	7.0	80	1 0 #	4.0Ø	500m	25		800k§Δ	2.0		D	TO66	CØ
95	1571-1020	166m	29 Ø	§J	4.0	2.0	100	7.0	100	1.0 #	4.0Ø	500m	20		800k§Δ	2 0		D	TO66	CØ
96	1571-1025	166m	29 Ø	§J	4.0	2.0	100	7.0	100	1.0 #	4.0Ø	500m	25		800k§Δ	2.0		D	TO66	CØ
97	1571-1220	166m	29 Ø	§J	4.0	2.0	120	7 0	120	1.0 #	4.0Ø	500m	20		800k§Δ	2.0		D	TO66	CØ
98	1571-1225	166m	29 Ø	§J	4.0	2 0	120	7.0	120	1.0 #	4.0Ø	500m	25		800k§Δ	2.0		D	TO66	CØ
99	1571-1425	166m	29 Ø	§J	4.0	2.0	140	7.0	140	1.0 #	4.0Ø	500m	25		800k§Δ	2.0		D	TO66	CØ
100	1571-1620	166m	29 Ø	§C	4.0	2 0	160	7.0	160	1.0 #	4.0Ø	500m	20		800k§Δ	2.0			TO66	
101	1571-1625	166m	29 Ø	§C	4.0	2.0	160	7.0	140	1.0 #	4.0Ø	500m	25		800k§Δ	2.0			TO66	
102	40250	166m	29 Ø	§J	4.0	2.0	50	5.0	40	1.0mØ	4.0Ø	1 5	25	100	1.0M§	1 0		D	TO66	CØ
103#	BD124A	166m	20	J	4.0		70	6 0	45	200u	5.0Ø	500m	35		1.0M				F9b	
104#	BD131	166mØ	15 Ø	§J	3.0	500m#	70	6.0	45	5.0uØ	12Ø	500m	40		60M§Δ	800m		PE	TO126	DØ
105#	BD133	166mØ	15 Ø	§J	3.0	500m#	90	6.0	60	5.0uØ	12Ø	500m	40		60M§Δ	800m		PE	TO126	DØ
106#	BDY71	166m	29 Ø	§J	4.0 †	2.0	90 †	7 0†	55	1.0m#♦	4.0Ø	500m	80	200	800k§Δ	2.0		H△	TO66	CØ
107	BU103A	166m	30 Ø	§J			120 †	8 0†	120 §	100uØ	10Ø	200m	50	200	100M§				TO66	CØ
108	CD1984*	166m	30 Ø	§J	1.0 †			4.0†	60 Ø										T75g	R
109#	KT922B	166m	20 Ø	§J	1.5				65						300M§Δ			PE	T72s	R
110#	KT922V	166m	20 Ø	§J	1.5				65						300M§Δ			PE	T72s	R

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C O A D D E
1	2N4998	200m#	30 Ø	§J	2.0	1.0	100	6.0	80	1.0m#	5.0Ø	1.0	30	90 #	50M§△				TO59	A
2	2N5000	200m#	30 Ø	§J	2.0	1.0	100	6.0	80	1.0m#	5.0Ø	1.0	70	200 #	60M§△				TO59	A
3	2N5016	200m#	30 Ø	§S	4.5	1.5	65	4.0	30		4.0Ø	500m	10	200	500M§△				TO60	G☑
4	2N5083†	200m	35 Ø	§J	10	2.0	120	6.0	60	1.0m§	2.0Ø	2.0	40	120 #	50M§△		300n☑		TO59	C
5	2N5084†	200m	35 Ø	§J	10	2.0	120	6.0	60	1.0m§	2.0Ø	2.0	100	300 #	80M§△		300n☑		TO59	C
6	2N5085†	200m	35 Ø	§J	10	2.0	150	6.0	80	1.0m§	2.0Ø	2.0	40	120 #	50M§△		300n☑		TO59	C
7	2N5202†	200m	35 Ø	§J	4.0	2.0	100	6.0	75 §	10m#	1.2Ø	4.0	10	100	60M§△	300m	400n		TO66	CØ
8	2N5326†	200m$	20 Ø	§J	5.0	1.0	100	6.0	80		1.0Ø	1.0	50	150 #	80M§△		150nØ		TO59	A
9	2N5660†	200m$	20 Ø	§J	1.0	200m	250 †	6.0†	200	1.0u§♦	5.0Ø	500m	40	120 #	20M§△		250nØ☑		TO66	CØ
10	2N5661†	200m$	20 Ø	§J	1.0	200m	400 †	6.0†	300	1.0u§♦	5.0Ø	500m	25	75 #	20M§△		250nØ☑		TO66	CØ
11	2N5700	200m	35 Ø	§S	3.0		40 †	4.0†	18	2.0mΔ	10Ø	50m	15						TO129	R
12	2N5701	200m	35 Ø	§S	3.0		40 †	4.0†	18	2.5mΔ	10Ø	50m	15						TO129	R
13	JAN2N5919A	200m§	2.6	§A	4.5			4.0	30	5.0m	4.0Ø	500m	10	200 #	500M§△				T104	R
14	2N5938§	200m$	2.5	§J	3.0	1.0	60	4.0	50	100u§	3.0Ø	1.0	30	150 #	150M§△				T126	A
15	2N6178†	200m$	10 Ø	§J	2.0 †	1.0	100 †	7.0†	100 #		4.0Ø	500m	30	130 #	50M§△	1.0	80nØ		B24	AØ
16	2N6179†	200m$	10 Ø	§J	2.0 †	1.0	75 †	5.0†	75 #		4.0Ø	500m	40	250 #	50M§△	1.6	80nØ		B24	AØ
17	2N6500†	200m#	20 Ø#	§J	4.0	3.0	120 †	7.0†	110 #		2.0Ø	3.0	15	60 #	60M§△	500m#	400n☑		TO66	CØ
18#	2NJ245B*	200m	30 Ø	§J	3.0		35	3.5	20	2.0mØ	5.0Ø	1.0	50 Ø					PE	W86	C
19#	2SC690	200m	30 Ø	§J	3.0		60	5.0	40	500uØ	10Ø	100m	10 #	180 #	200M§			PE†	T59b	R
20#	2SC825	200m	30 Ø	§J	2.0		300	6.0	300	20uØ	10Ø	500m	20	250	15M§			D	TO66	
21▼#	2SC830H	200m	25 Ø	§J	3.0		100	4.0	55	100uØ	4.0Ø	1.0	30 *	200 *				D	TO66	CØ
22#	2SC833†	200m	25 Ø	§J	2.0		450	6.0	300	100uØ	10Ø	100m	40	80		1.2		DM	TO66	CØ
23#	2SC1031	200m	30 Ø	§J			300	6.0	300	5.0mØ	10Ø	500m	30	300 #				ME	TO66	CØ
24#	2SC1055H†	200m	25 Ø	§J	7.0	2.5	130	6.0	80	200u	4.0Ø	5.0	30	140		333m		D	TO66	CØ
25#	2SC1060	200m	25 Ø	§J	3.0		50	4.0	50	100uØ	4.0Ø	1.0	35	320	8.0M§	500m		D†	B17a	BØ
26#	2SC1061	200m	25 Ø	§J	3.0		50	4.0	50	100uØ	4.0Ø	1.0	35	320	8.0M§	500m		D†	B17	BØ
27♦#	2SC1061K†	200m	25 Ø	§J	3.0		50	4.0	50	100uØ	4.0Ø	1.0	35	320 *	6.0M§	500m	300nØ	D†	Y220b	D
28♦#	2SC1076	200m	30	§J	6.0 #		36	4.0	18	30u	13Ø	600m	15	50 Ø	800M§			PE	T98	
29♦#	2SC1190	200m	30	§J	5.0 #		36	4.0	18	100u	13Ø	400m	10	50 Ø	600M§			PE	T98	
30#	2SC1206B	200m	30 Ø	§J	2.0		45	4.0	45 §	1.0mØ	25Ø	100m	10	180 #	1.5G§			PE		
31#	2SC1307	200m	25 Ø	§J	8.0 #		70	4.0	70 §	20uØ	10Ø	2.0	20	150 #	180M§	250m#		E†	Y220b	DØ
32#	2SC1338	200m	30 Ø	§J	3.0		35	4.5	17	500uØ	10Ø	100m	10	180 #	1.0G§			PE	TO129	
33#	2SC1591	200m	25 Ø	§J	2.5		36	4.0	18	2.0m	10Ø	1.0	15	200	200M§			E	W64	Y
34#	2SC1669	200m	1.5	§J	1.5	1.5 Ø	150	5.0	150	20uØ	10Ø	500m	40	240	6.0M§	3.0		DM	B26	D
35#	2SC1805	200m	30 Ø	§J	2.0		45	4.0	45 §	1.0mØ	25Ø	100m	10	180 #	1.0G§			PE		
36♦#	2SC1929	200m	25	§J	1.0 #		300	6.0	270	10u	5.0Ø	100m	35	330	80M§	4.0		PL	B17	D
37▼#	2SC2043	200m	25 Ø	§J	4.0		70	5.0	70 §	10uØ	5.0Ø	500m	50 Ø		220M§			PE	Y220b	D
38#	2SC2094	200mØ	30 Ø	§J	3.5		40	4.5	17	2.0mØ	10Ø	100m	10	180 #	500M§			PE	W96	V☑
39#	2SD103	200m	25 Ø	§J	3.0	1.0	80	10	50	20uØ	5.0Ø	500m	30	300	1.0M§		3.0uØ	D	TO66	
40#	2SD129	200m	25	§J	3.0		90	10	80	1.0mØ	5.0Ø	1.0	30	200				D	TO66	AØ
41#	2SD130	200m	25 Ø	§J	3.0	3.0 Ø	60	10	50	1.0mØ	5.0Ø	500m	30	200 *	1.0M§	500m		D	TO66	CØ
42#	2SD158	200m	30 Ø	§J	1.0		200	3.0	200	20uØ	10Ø	500m	20	250 *	15M§	6.0		D	TO66	AØ
43#	2SD159	200m	30 Ø	§J	1.0		300	3.0	300	20uØ	10Ø	500m	20	250 *	15M§	6.0		D	TO66	AØ
44#	2SD226	200m	25 Ø	§J	2.0	1.0 #	40	10	40	30uØ	3.0Ø	1.0	20	90 Ø	25k	700m		D	TO66	CØ
45#	2SD226A	200m	25 Ø	§J	2.0	1.0 #	60	10	60	30uØ	3.0Ø	1.0	20	90 Ø	25k	700m		D	TO66	CØ
46#	2SD226B	200m	25 Ø	§J	2.0	1.0 #	80	10	80	30uØ	3.0Ø	1.0	20	90 Ø	25k	700m		D	TO66	CØ
47♦#	2SD234	200m	1.5	§J	3.0	3.0 Ø	60	10	50	100uØ	5.0Ø	500m	40	240	1.0M§	400m		D	B26a	D
48♦#	2SD235	200m	1.5	§J	3.0	3.0 Ø	50	10	40	100uØ	5.0Ø	500m	40	240	1.0M§	1.0		D	B26a	D
49#	2SD251†	200m	30 Ø	§J	2.0		200	5.0	200	5.0uØ	10Ø	500m	100 Ø			2.0	2.5u	DM	TO66	CØ
50#	2SD284	200m	25 Ø	§J	5.0		120	5.0	40	200uØ	5.0Ø	1.0	30	80 #	20M§	200m#		EMΔ	F12b	CØ
51#	2SD297	200m	25 Ø	§	3.0		150	7.0	80	500uØ	2.0Ø	2.0	30	200 #		500m		ME	TO66	CØ
52#	2SD312	200m	25	J§	1.0 #		800	6.0	600	1.0m	10Ø	600m	25					D	TO3	CØ
53#	2SD317	200m	25 Ø	§J	3.0 #	1.0	60	8.0	60	30uØ	3.0Ø	1.0	30	160 *	25k	500m		ME	B17	B
54#	2SD317A	200m	25 Ø	§J	3.0 #	1.0	80	8.0	80	30uØ	3.0Ø	1.0	30	160 *	25k	500m		ME	B17	B
55#	2SD318	200m	25 Ø	§J	3.0 #	1.0	60	8.0	60	30uØ	3.0Ø	1.0	30	160 *	25k	500m		ME	B17a	B
56#	2SD318A	200m	25 Ø	§J	3.0 #	1.0	80	8.0	80	30uØ	3.0Ø	1.0	30	160 *	25k	500m		ME	B17a	B
57♦#	2SD365	200m	25	§J	3.0		60	5.0	60	30uØ	3.0Ø	1.0	30	160	70k	500m		ME	B17	D
58♦#	2SD365A	200m	25	§J	3.0		80	5.0	80	30uØ	3.0Ø	1.0	30	160	70k	500m		ME	B17	D
59♦#	2SD366	200m	25	§J	3.0		60	5.0	60	30uØ	3.0Ø	1.0	30	160	70k	500m		ME	B17a	D
60♦#	2SD366A	200m	25	§J	3.0		80	5.0	80	30uØ	3.0Ø	1.0	30	160	70k	500m		ME	B17a	D
61♦#	2SD389	200m	25	§J	3.0		60	8.0	60	30uØ	3.0Ø	1.0	30	160	25k	500m		D	B17	D
62♦#	2SD389A	200m	25	§J	3.0		80	8.0	80	30uØ	3.0Ø	1.0	30	160	25k	500m		D	B17	D
63♦#	2SD390	200m	25	§J	3.0		60	8.0	60	30uØ	3.0Ø	1.0	30	160	25k	500m		D	B17a	D
64♦#	2SD390A	200m	25	§J	3.0		80	8.0	80	30uØ	3.0Ø	1.0	30	160	25k	500m		D	B17a	D
65#	2SD401A	200m	25 Ø	§J	2.0		200	5.0	150	50uØ	10Ø	400m	40 *	200 #	5.0M§	2.0		D	Y220b	XØ
66#	2SD402A	200m	25 Ø	§J	2.0		200	5.0	150	50uØ	10Ø	400m	40 *	200 #	5.0M§	2.0		D	Y220a	AJ
67#	2SD422†	200m	30 Ø	§J	4.0		250	6.0	200	100uØ	5.0Ø	3.0	20 Ø		30M§	400m	1.3u	ME△	TO66	CØ
68#	2SD423†	200m	30 Ø	§J	4.0		250	6.0	200	100uØ	5.0Ø	3.0 △	20 Ø		3.0M§	400m	1.0u	DPL	TO66	CØ
69#	2SD518†	200m	30 Ø	§J	4.0		220	6.0	200	100uØ	5.0Ø	3.0	20 Ø		30M§	400m	1.5u	DPL△	TO66	CØ
70#	2SD610	200m	25 Ø	§J	2.0		250	5.0	200	1.0uØ	10Ø	500m	40 *	200 #	5.0M§	2.0			Y220b	XØ
71#	2SD611	200m	30	§J	7.0		100	6.0	60	20u	4.0Ø	1.0	50		1.5 †	500m		D	TO66	CØ
72▼#	2SD622	200m	30 Ø	§J	3.0		450	5.0	400	10uØ	5.0Ø	1.0	20 Ø		25M§		1.4u	D	TO66	CØ
73	40313	200m	35 Ø	§J	2.0	1.0		2.5	300 §	5.0mΔ	10Ø	100m	40	250				D	TO66	CØ
74	40318	200m	35 Ø	§J	2.0	1.0		2.5	300 §	5.0mΔ	10Ø	20m	40					D	TO66	CØ
75	40322	200m	35 Ø	§J	2.0	1.0		6.0	300 §	5.0mΔ	10Ø	20m	40					D	TO66	CØ
76	40328	200m	35 Ø	§J	2.0	1.0		6.0		5.0mΔ	10Ø	1.0	20					D	TO66	CØ
77	40364	200m	35 Ø	§J	7.0	5.0		4.0	60 §	500u	5.0Ø	500m	35	175	15M§			DE	TO66	CØ
78	40374	200m	35 Ø	§J	2.0	1.0	250	6.0	175 ☑	10mΔ	10Ø	500m	40	200	10M§△	5.0			TO66	CØ
79	BD144	200m	8.0 ♦	†J	250m	250mØ	400	5.0	400 §	3.0m†	20Ø	200m	20 †		12M§				TO3	CØ
80#	BD233	200m	25 Ø	§J	2.0	300m	45	5.0	45	100u	2.0Ø	150m	40	250 *	3.0M§△	600m	300nØ	E†	TO126	BØ
81#	BD235	200m	25 Ø	§J	2.0	300m	60	5.0	60	100u	2.0Ø	150m	40	250 *	3.0M§△	600m	300nØ	E†	TO126	BØ
82#	BD237	200m	25 Ø	§J	2.0	300m	100	5.0	80	100u	2.0Ø	150m	40	160	3.0M§△	600m	300nØ	E†	TO126	BØ
83#	BD410	200m	1.2	♦S	1.0		500	5.0	325	100u§	10Ø	50m	30	240		5.0		D	B21a	D
84#	BDX35	200m	1.0	§J	5.0	1.0	60	5.0	60	10u	10Ø	500m	45	450	100M§	180m	350n†	PE†	TO126	BØ
85#	BDX36	200m	1.0	§J	5.0	1.0	60	5.0	60	10u	10Ø	500m	45	450	100M§	140m	350n†	PE†	TO126	BØ
86#	BDX37	200m	1.0	§J	5.0	1.0	80	5.0	80	10u	10Ø	500m	45	450	100M§	180m	350n†	PE†	TO126	BØ
87#	BDY12-6	200m	26 Ø*	§J	3.0	300m		5.0	40	100n§	1.0Ø	1.0	40	100	70M§		300nØ	PEΔ	F9c	TØ
88#	BDY12-10	200m	26 Ø*	§J	3.0	300m		5.0	40	100n§	1.0Ø	1.0	63	160	70M§		300nØ	PEΔ	F9c	TØ
89#	BDY12-16	200m	26 Ø*	§J	3.0	300m		5.0	40	100n§	1.0Ø	1.0	100	250	70M§		300nØ	PEΔ	F9c	TØ
90#	BDY13-6	200m	26 Ø*	§J	3.0	300m		5.0	60	100n§	1.0Ø	1.0	40	100	70M§		300nØ	PEΔ	F9c	TØ
91#	BDY13-10	200m	26 Ø*	§J	3.0	300m		5.0	60	100n§	1.0Ø	1.0	63	160	70M§		300nØ	PEΔ	F9c	TØ
92#	BDY60†	200m$	15 Ø	§J	5.0	1.0	60	5.0	60	10uØ	2.0Ø	1.0	40	300	100M§	140m	150nØ	PE	TO3	CØ
93	BDY61†	200m	15 Ø§	§J	5.0	1.0	60	5.0	60	10u	10Ø	500m	45		100M§	180m	150n	PE	TO3	CØ
94	BDY62†	200m	15 Ø§	§J	5.0	1.0	30	5.0	30	10u	10Ø	500m	45		100M§	180m	150n	PE	TO3	CØ
95#	BLY83	200m	12 Ø	§S	2.5		66	4.0	33		5.0Ø	1.0	10	220	250M§△			†	T84	R
96#	BLY84	200m♦	12 Ø	§S	2.5		40	4.0	20		5.0Ø	1.0	10	60 Ø	250M§△			†	T84	R
97#	BUX67†	200m	35 Ø	§J	2.0	1.0	200	6.0	150 ☑	10mA♦	5.0Ø	1.0	15	150 #	10M§△	2.5 #	3.0uØ		TO66	CØ
98#	BUX67A†	200m	35 Ø	§J	2.0	1.0	300	6.0	250 ☑	10mA♦	5.0Ø	1.0	15	150 #	10M§△	2.5 #	3.0u☑		TO66	CØ
99#	BUX67B†	200m	35 Ø	§J	2.0	1.0	350	6.0	300 ☑	5.0mA♦	5.0Ø	1.0	15	150 #	10M§△	2.5 #	3.0uØ		TO66	CØ
100#	BUX67C†	200m	35 Ø	§J	2.0	1.0	400	6.0	350 ☑	5.0mA♦	5.0Ø	1.0	15	150 #	10M§△	2.5 #	3.0u☑		TO66	CØ
101#	BUX86†	200m	20 Ø#	§J	500m	200m		5.0	400	100u§Ø					15M§	6.0	500nØ	D†	TO126	BØ
102#	BUX87	200m	20 Ø#	§J	1.0				500	100u§♦					15M§	6.0			TO126	bØ
103	DM30P	200m	35 Ø	§	3.0			4.0	50 Ø						1.0G					
104	KSP1071	200m			5.0	1.0	225	8.0	200	1.0u	5.0	1.0	20	60	40M			PE	TO66	Ø
105	KSP1072	200m			5.0	1.0	250	8.0	225	1.0u	5.0	1.0	20	60	40M			PE	TO66	Ø
106	KSP1073	200m			5.0	1.0	275	8.0	250	1.0u	5.0	1.0	20	60	40M			PE	TO66	Ø
107	KSP1074	200m			5.0	1.0	300	8.0	275	1.0u	5.0	1.0	20	60	40M			PE	TO66	Ø
108	KSP1075	200m			5.0	1.0	325	8.0	300	1.0u	5.0	1.0	20	60	40M			PE	TO66	Ø
109	MJE520	200m	25 Ø	§J	3.0	2.0	30	4.0	30	100u♦	1.0Ø	1.0	25 #					△	B16d	B
110	MSC1020*	200m	35 Ø	§J	6.0 †		55 †	3.5†	55 §	5.0mØ♦	15Ø	500m	15	120	1.0G#			E	W77	F

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C E O A D E
1	2N6372	228m$	22 Ø	§J	6.0 †	2.0	90 †	5.0†	90 #	1.0mΔ♦	4.0Ø	2.0	20	100 #	4.0M§Δ				TO66	CØ
2	2N6373	228m$	22 Ø	§J	6.0 †	2.0	70 †	5.0†	70 #	1.0mΔ♦	4.0Ø	2.5	20	100 #	4.0M§Δ				TO66	CØ
3	2N6374	228m$	22 Ø	§J	6.0 †	2.0	50 †	5.0†	50 #	1.0mΔ♦	4.0Ø	3.0	20	100 #	4.0M§Δ				TO66	CØ
4	2N2828	229m	40 Ø	§A	3.0	1.0	80	10	60	50mØ	4.0Ø	500m	20	60	1.0M§Δ	800m	1.5u	D	T25	
5	2N4128	229m	40 Ø	§C	4.0	1.0	60 †	4.0†	40	1.0mØ♦	5.0Ø	200m	10	80	200M§Δ	500m			TO117	R
6	2N2339	230m	40 Ø	§C	2.5	1.0	60	6.0	40	3.0m♦Δ	4.0Ø	300m	20	80		500m			TO57	AØ
7	2N5775	230m	40 Ø	§S	3.0	500m	65 †	3.5†	35	5.0m§♦	5.0Ø	100m	10	150					F21	F☑
8	2N6465	232m$	23 Ø	§J	4.0 †	2.0	110 †	5.0†	110 #	1.0mΔ♦	4.0Ø	1.5	15	150 #	5.0M§Δ	750m#			TO66	CØ
9	2N6466	232m$	23 Ø	§J	4.0 †	2.0	130 †	5.0†	130 #	1.0mΔ♦	4.0Ø	1.5	15	150 #	5.0M§Δ	750m#			TO66	CØ
10	RCS31	232m	40 Ø	§J	5.0	1.0	40	5.0	40	500uΔ	4.0Ø	3.0	10	50	3.0M§Δ		400nØ	E	TO66	CØ
11	RCS31A	232m	40 Ø	§J	5.0	1.0	60	5.0	60	500uΔ	4.0Ø	3.0	10	50	3.0M§Δ		400nØ	E	TO66	CØ
12	RCS31B	232m	40 Ø	§J	5.0	1.0	80	5.0	80	500uΔ	4.0Ø	3.0	10	50	3.0M§Δ		400nØ	E	TO66	CØ
13	RCS31C	232m	40 Ø	§J	5.0	1.0	100	5.0	100	500uΔ	4.0Ø	3.0	10	50	3.0M§Δ		400nØ	E	TO66	CØ
14#	2SC1178A	233m	35 Ø	§J	5.0		40	4.5	18	2.0mØ	10Ø	200m	10	180 #	450M§			PE	TO117	
15#	2SC1605A	233m	35 Ø	§J	3.5		35	4.5	17	500uØ	10Ø	100m	10	180 #	500M§			PE	TO117	
16#	2SC1729	233m	35 Ø	§J	3.5		35	4.0	17	1.0mØ	10Ø	100m	10	180 #	500M§			PE		
17	2N4921	238m	30 Ø	§J	1.0	1.0	40	5.0	40	100u	1.0Ø	500m	20	100 #	3.0M§Δ				B16	BØ
18	2N4922	238m	30 Ø	§J	1.0	1.0	60	5.0	60	100u	1.0Ø	500m	20	100 #	3.0M§Δ				B16	BØ
19	2N4923	238m	30 Ø	§J	1.0	1.0	80	5.0	80	100u	1.0Ø	500m	20	100 #	3.0M§Δ				B16	BØ
20#	BD239†	238m	2.0	§J	1.0	400m		5.0	45	200u§	4.0Ø	200m	40 #		3.0M§Δ	700m	300nØ	D	B1	D
21#	BD239A†	238m	2.0	§J	1.0	400m		5.0	60	200u§	4.0Ø	200m	40 #		3.0M§Δ	700m	300nØ	D	B1	D
22#	BD239B†	238m	2.0	§J	1.0	400m		5.0	80	200u§	4.0Ø	200m	40 #		3.0M§Δ	700m	300nØ	D	B1	D
23#	BD239C†	238m	2.0	§J	1.0	400m		5.0	100	200u§	4.0Ø	200m	40 #		3.0M§Δ	700m	300nØ	D	B1	D
24	D44C1†	238m	1.6	§J	4.0			5.0	30	10u§	1.0Ø	1.0	10		50M§		100nØ†	†	B22	B
25	D44C2†	238m	1.6	§J	4.0			5.0	30	10u§	1.0Ø	200m	40	120	50M§		100nØ†	†	B22	B
26	D44C3†	238m	1.6	§J	4.0			5.0	30	10u§	1.0Ø	200m	40	120	50M§		100nØ†	†	B22	B
27	D44C4†	238m	1.6	§J	4.0			5.0	45	10u§	1.0Ø	1.0	10		50M§		100nØ†	†	B22	B
28	D44C5†	238m	1.6	§J	4.0			5.0	45	10u§	1.0Ø	200m	40	120	50M§		100nØ†	†	B22	B
29	D44C6†	238m	1.6	§J	4.0			5.0	45	10u§	1.0Ø	200m	40	120	50M§		100nØ†	†	B22	B
30	D44C7†	238m	1.6	§J	4.0			5.0	60	10u§	1.0Ø	1.0	10		50M§		100nØ†	†	B22	B
31	D44C8†	238m	1.6	§J	4.0			5.0	60	10u§	1.0Ø	200m	40	120	50M§		100nØ†	†	B22	B
32	D44C9†	238m	1.6	§J	4.0			5.0	60	10u§	1.0Ø	2.0	20		50M§		100nØ†	†	B22	B
33	D44C10	238m	1.6	§J	4.0			5.0	80	10u§	1.0Ø	1.0	10		50M§		100nØ	†	B22	B
34	D44C11	238m	1.6	§J	4.0			5.0	80	10u§	1.0Ø	200m	40	120	50M§		100nØ	†	B22	B
35	D44C12	238m	1.6	§J	4.0			5.0	80	10u§	1.0Ø	200m	40	120	50M§	500m	100nØ	†	B22	D
36	TIP29†	238m	2.0	§J	1.0	400m	40	5.0	40	300uΔ	4.0Ø	1.0	15	75 #	3.0M§Δ		500nØ	DM	B1	BØ
37	TIP29A†	238m	2.0	§J	1.0	400m	60	5.0	60	300uΔ	4.0Ø	1.0	15	75 #	3.0M§Δ		500nØ	DM	B1	B
38	TIP29B†	238m	2.0	§J	1.0	400m	80	5.0	80	300uΔ	4.0Ø	1.0	15	75 #	3.0M§Δ		500nØ	DM	B1	B
39	TIP29C†	238m	2.0	§J	1.0	400m	100	5.0	100	300uΔ	4.0Ø	1.0	15	75 #	3.0M§Δ		500nØ	DM	B1	B
40	RCA29†	239m	2.0	§J	3.0	1.0	40	5.0	40	300uΔ♦	4.0Ø	1.0	15	150 #	3.0M§Δ		400nØ	E†	Y220b	XØ
41	RCA29A†	239m	2.0	§J	3.0	1.0	60	5.0	60	300uΔ♦	4.0Ø	1.0	15	150 #	3.0M§Δ		400nØ	E†	Y220b	XØ
42	RCA29B†	239m	2.0	§J	3.0	1.0	80	5.0	80	300uΔ♦	4.0Ø	1.0	15	150 #	3.0M§Δ		400nØ	E†	Y220b	XØ
43	RCA29C†	239m	2.0	§J	3.0	1.0	100	5.0	100	300uΔ♦	4.0Ø	1.0	15	150 #	3.0M§Δ		400nØ	E†	Y220b	XØ
44#	2SC789	240m	30 Ø	§J	4.0	4.0 Ø	70	5.0	60	30uØ	5.0Ø	500m	40	240	3.0M§Δ	500m		DM	B26	D
45#	2SC1466	240m	30 Ø	§	3.0	1.0	450	4.0	360	1.0m	5.0	1.5	4.0	16	10M§	660m	2.0 Ø	DM	F6h	C
46#	2SC1467	240m	30 Ø	§	3.0	1.0	500	4.0	400	1.0m	5.0	1.5	4.0	12	10M§	660m	2.0 Ø		F6h	C
47#	2SC1793	240m	42	§	4.0		45	4.0	23	2.0m	10	500u	15	250	300k§Δ			E	T59d	S
48#	2SC1826	240m	30 Ø	§J	4.0	1.0	80	6.0	60	1.0m	4.0Ø	1.0	40	400	10M§	500m	1.2u		B26	DØ
49#	2SC1827	240m	30 Ø	§J	4.0	1.0	100	6.0	80	1.0m	4.0Ø	1.0	40	400	10M§	500m	1.2u		B26	DØ
50♦#	2SC1983	240m	30 Ø	§J	3.0	1.0	80	6.0	60	100u	4.0Ø	500m	500	3.0k	15M§	500m	1.6u		B26c	DØ
51♦#	2SC1984	240m	30 Ø	§J	3.0	1.0	100	6.0	80	100u	4.0Ø	500m	500	2.0k	15M§	500m		DM	B26c	DØ
52#	2SD477	240m	30 Ø	§J	2.0		200	6.0	150	1.0uØ	4.0Ø	50m	60	320 *		4.0		D	B17a	B
53#	2SD478	240m	30 Ø	§J	2 0		200	6.0	150	1.0uØ	4.0Ø	50m	60	320 *		4.0		D	B17	B
54♦#	2SD546	240m	30 Ø	§J	1.0		800	6.0	500	300u	10Ø	20m	40	200	7.0M§	6.0		DM	TO66	
55♦#	2SD570	240m	30 Ø	§J	4.0		70	5.0	70	30uØ	5.0Ø	500m	40	240	10M§	300m		DM	B17	B
56#	2SD578	240m	30 Ø	§J	2.0		180	6.0	140	1.0uØ	4.0Ø	50m	60	320 *		4.0		D	B17	B
57#	2SD578A	240m	30 Ø	§J	2.0		180	6.0	160	1.0uØ	4.0Ø	50m	60	320 *		4.0		D	B17	B
58▼#	2SD712	240m	30 Ø	§J	4.0		100	5.0	100	30u	5.0Ø	500m	55	300		570m		PE†	B26	
59#	BD175	240m	30 Ø	§J	3.0	1.0	45	5.0	45	100u	2.0Ø	1.0	15 #		3.0M§Δ	800m#		†	B16	B
60#	BD177	240m	30 Ø	§J	3.0	1.0	60	5.0	60	100u	2.0Ø	1.0	15 #		3.0M§Δ	800m#		†	B16	B
61#	BD179	240m	30 Ø	§J	3.0	1.0	80	5.0	80	100u	2.0Ø	1.0	15 #		3.0M§Δ	800m#		†	B16	B
62#	BD633	240m	2.0	§J	2.0	300m	45	5.0	45	200u§	2.0Ø	1.0	25			600m	300nØ	D△	B1	D
63#	BD635	240m	2.0	§J	2.0	300m	60	5.0	60	200u§	2.0Ø	1.0	25			600m	300nØ	D△	B1	D
64#	BD637	240m	2.0	§J	2.0	300m	100	5.0	80	200u§	2 0Ø	1.0	25			600m	300nØ	D△	B1	D
65	MJE29†	240m	30 Ø	§J	1.0	400m	40	5.0	40	300uΔ♦	4.0Ø	1.0	15		3.0M§Δ	700m			B16f	D
66	MJE29A†	240m	30 Ø	§J	1.0	400m	60	5.0	60	300uΔ♦	4.0Ø	1.0	15		3.0M§Δ	700m			B16f	D
67	MJE29B†	240m	30 Ø	§J	1.0	400m	80	5.0	80	300uΔ♦	4.0Ø	1.0	15		3.0M§Δ	700m			B16f	D
68	MJE29C†	240m	30 Ø	§J	1.0	400m	100	5 0	100	300uΔ♦	4.0Ø	1.0	15		3.0M§Δ	700m			B16f	D
69	MJE340K	240m	30 Ø	§J	500m			3.0	300	100u♦	10Ø	50m	30	240				†	B23	D
70	MJE341K	240m	30 Ø	§J	500m	250m	175	3.0	150	300u♦	10Ø	50m	25	200	15M§Δ			†	B23	D
71	MJE344K	240m	30 Ø	§J	500m	250m	200	5.0	200	100u♦	10Ø	50m	30	300	15M§Δ			†	B23	D
72	MJE2360	240m	30 Ø	§J	500m	250m	375	6.0	350	100u	10Ø	50m	25	200 #	10M§				B23	D
73	MJE2361	240m	30 Ø	§J	500m	250m	375	6.0	350	100u	10Ø	50m	50	250 #	10M§				B23	D
74	MJE3738	240m	30 Ø	§J	500m	500m	250	6.0	225	100u	10Ø	100m	40	200 #	10M§				B23	D
75	MJE3739	240m	30 Ø	§J	500m	500m	325	6.0	300	100u	10Ø	100m	40	200 #	10M§				B23	D
76	MJE5655	240m	30 Ø	§J	500m	250m	275	6.0	250	10u♦	10Ø	100m	30	250 #	10M§Δ			†	B23	D
77	MJE5656	240m	30 Ø	§J	500m	250m	325	6.0	300	10u♦	10Ø	100m	30	250 #	10M§Δ			†	B23	D
78	MJE5657	240m	30 Ø	§J	500m	250m	375	6.0	350	10u♦	10Ø	100m	30	250 #	10M§Δ			†	B23	D
79	NSP575	240m	30 Ø	§J	3.0	2.0	45	5.0	45	100u	1.0Ø	1.0	25		3.0MΔ			EM†	Y220b	D
80	NSP577	240m	30 Ø	§J	3.0	2.0	60	5.0	60	100u	1.0Ø	1.0	25		3.0MΔ			EM†	Y220b	D
81	NSP579	240m	30 Ø	§J	3.0	2.0	80	5.0	80	100u	1.0Ø	1.0	15		3.0MΔ			EM†	Y220b	D
82	NSP581	240m	30 Ø	§J	3.0	2.0	100	5.0	100	100u	1.0Ø	1.0	15		3.0MΔ			EM†	Y220b	D
83▼	TIP29☑†	240m	2.0	§J	3.0	1.0	40	5.0	40	200u§	4.0Ø	1.0	15	150 #	3.0MΔ§	700m#	400nØ	E†	Y220b	XØ
84▼	TIP29A☑†	240m	2.0	§J	3.0	1.0	60	5.0	60	200u§	4.0Ø	1.0	15	150 #	3.0MΔ§	700m#	400nØ	E†	Y220b	XØ
85▼	TIP29B☑†	240m	2.0	§J	3.0	1.0	80	5 0	80	200u§	4.0Ø	1.0	15	150 #	3.0MΔ§	700m#	400nØ	E†	Y220b	XØ
86▼	TIP29C☑†	240m	2.0	§J	3.0	1.0	100	5.0	100	200u§	4.0Ø	1.0	15	150 #	3.0MΔ§	700m#	400nØ	E†	Y220b	XØ
87♦#	2SD350	244m	22	♦J	11 #	7.0	1.5k	5.0	700	1.0m	10Ø	4.0	3.0	8.0		1.5	1.0u#	D	TO3	CØ
88♦#	2SD350A	244m	22 Ø	♦J	11 #		1.5k	5.0	700	1.0m	10Ø	4.0	3.0	15		222m	1.0u#	PL	TO3	CØ
89	2N5425†	250m§	32 Ø	§S	5.0	100m	60 †	7.0†	60	1.0uØ♦	2.5Ø	5.0	500 #		50M§Δ		300nØ☑		R177c	A
90	2N5426†	250m§	32 Ø	§S	5.0	100m	60 †	7.0†	60	1.0uØ♦	2.2Ø	5.0	1.0k#		50M§Δ		300nØ☑		R177c	A
91	2N5705	250m	44 Ø	§S	4.0		36	3.0	18	2.0mΔ	5.0Ø	100m	15						TO128	R
92#	2SC1316	250m	23 Ø	♦J	2 0		750	10		50uØ	3.0Ø	2.0	4.0	14	8.5M§	6.5 #		DM	F9	CØ
93#	2SC1431	250m	1.5	♦J	2.0		110 $	5.0	110 $	10uØ	2.0Ø	400m	50	240	30M§Δ				TO66	CØ
94#	2SD290	250m	23 Ø	♦J	5.0		80	8.0	80	100uØ	3.0Ø	2.0	42	368	10M§			DM	TO66	CØ
95#	2SD291	250m	23 Ø	♦J	3.0	1.0	70	10	40	20uØ	1.0Ø	100m	32	100 Ø	2.0Mt			D	TO66	CØ
96#	2SD292	250m	23 Ø	♦J	3.0	1.0	70	10	55	20uØ	1.0Ø	100m	32	100 Ø	2.0Mt			D	TO66	CØ
97	1714-0402†	250m$	25 Ø$	§J	10 †	2.0	50 †	7.0†	40 ☑		2.0Ø	2.0	20 #		40M§Δ	300m#	300nØ☑	E	TO66	CØ
98	1714-0405†	250m$	25 Ø$	§J	10 †	2.0	50 †	7.0†•	40 ☑		2.0Ø	5.0	20 #		40M§Δ	150m#	400nØ☑	E	TO66	CØ
99	1714-0602†	250m$	25 Ø$	§J	10 †	2.0	70 †	7.0†	60 ☑		2.0Ø	2.0	20 #		40M§Δ	300m#	300nØ☑	E	TO66	CØ
100	1714-0605†	250m$	25 Ø$	§J	10 †	2.0	70 †	7.0†	60 ☑		2.0Ø	5.0	20 #		40M§Δ	150m#	400nØ☑	E	TO66	CØ
101	1714-0802†	250m$	25 Ø$	§J	10 †	2.0	90 †	7.0†	80 ☑		2.0Ø	2.0	20 #		40M§Δ	300m#	300nØ☑	E	TO66	CØ
102	1714-0805†	250m$	25 Ø$	§J	10 †	2.0	90 †	7.0†	80 ☑		2.0Ø	5.0	20 #		40M§Δ	150m#	400nØ☑	E	TO66	CØ
103	1714-1002†	250m$	25 Ø$	§J	10 †	2.0	110 †	7 0†	100 ☑		2.0Ø	2.0	20 #		40M§Δ	300m#	300nØ☑	E	TO66	CØ
104	1714-1005†	250m$	25 Ø$	§J	10 †	2.0	110 †	7.0†	100 ☑		2.0Ø	5.0	20 #		40M§Δ	150m#	400nØ☑	E	TO66	CØ
105	1714-1202†	250m$	25 Ø$	§J	10 †	2.0	130 †	7.0†	120 ☑		2.0Ø	2.0	20 #		40M§Δ	300m#	300nØ☑	E	TO66	CØ
106	1714-1205†	250m$	25 Ø$	§J	10 †	2.0	130 †	7.0†	120 ☑		2.0Ø	5.0	20 #		40M§Δ	150m#	400nØ☑	E	TO66	CØ
107	1714-1402†	250m$	25 Ø$	§J	10 †	2.0	150 †	7.0†	140 ☑		2.0Ø	2.0	20 #		40M§Δ	300m#	300nØ☑	E	TO66	CØ
108	1714-1405†	250m$	25 Ø$	§J	10 †	2.0	150 †	7.0†	140 ☑		2.0Ø	5.0	20 #		40M§Δ	150m#	400nØ☑	E	TO66	CØ
109	1714-1602†	250m$	25 Ø$	§J	10 †	2.0	170 †	7.0†	160 ☑		2.0Ø	2.0	20 #		40M§Δ	300m#	300nØ☑	E	TO66	CØ
110	1714-1605†	250m$	25 Ø$	§J	10 †	2.0	170 †	7.0†	160 ☑		2.0Ø	5.0	20 #		40M§Δ	150m#	400nØ☑	E	TO66	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AE XM P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #200 s/a TO200 Ser.	LEAD CONFIG
1#	2SC1968	266m	40 Ø	§J	5.0		35	4.0	17	500uØ	10Ø	100m	10 #	180 #	800M§			PE		
2	SDT6001	266m	40 Ø	§J	5.0		100	5.0	50	1.0uØ	5.0Ø	1.0	10	120 #	30M	1.0		PL	T24	
3	SDT6011	266m	40 Ø	§J	5.0		80	8.0	40	1.0uØ	5.0Ø	1.0	20	60 #	30M	500m		PL	T24	
4	SDT6012	266m	40 Ø	§J	5.0		100	8.0	80	1.0uØ	5.0Ø	1.0	20	60 #	30M§	500m		DPL	T24	
5	SDT6013	266m	40 Ø	§J	5.0		80	8.0	40	1.0uØ	5.0Ø	1.0	40	120 #	30M	500m		PL	T24	
6	SDT6014	266m	40 Ø	§J	5.0		100	8.0	80	1.0uØ	5.0Ø	1.0	40	120 #	30M	500m		PL	T24	
7	SDT6015	266m	40 Ø	§J	5.0		80	8.0	40	1.0uØ	5.0Ø	1.0	100 #		30M	500m		PL	T24	
8	SDT6016	266m	40 Ø	§J	5.0		100	8.0	80	1.0uØ	5.0Ø	1.0	100 #		30M	500m		PL	T24	
9	SDT6031	266m	40 Ø	§J	5.0	500m	60	5.0	40	1.0uØ	5.0Ø	1.0	20	60	30M§	500m		PL	T24	
10	2N1647	267m	40 Ø	§S	3.0		80	6.0	80 #	100uØ	10	500m	15	45	3.0M§Δ	3.0		Δ	T11	AØ
11	2N1648	267m	40 Ø	§S	3.0		120	6.0	120	100uØ	10Ø	500m	15	45	2.0M§Δ	3.0			T11	AØ
12	2N1650	267m	40 Ø	§S	3.0		120	6.0	120	100uØ	10Ø	500m	30		2.0M§Δ	3.0			T11	AØ
13	2N2020	267m	40 Ø	§S	2.0		150	6.0	125	100uØ	10Ø	500m	40	90	3.0M§Δ	6.0		Δ	T11	CØ
14	2N2021	267m	40 Ø	§S	2.0		200	6.0	140	100uØ	10Ø	500m	40	90	3.0M§Δ	6.0		Δ	T11	CØ
15	2N2632†	267m§	20 Ø	§J	5.0	500m	90	8.0	60	100nØ♦	2.0Ø	1.0	40	120 #	20M§Δ		80n☑		T25c	AØ
16	2N2633†	267m§	20 Ø	§J	5.0	500m	120	8.0	80	100nØ♦	2.0Ø	1.0	40	120 #	20M§Δ		80n☑		T25c	AØ
17	2N2634†	267m§	20 Ø	§J	5.0	500m	150	8.0	100	100nØ♦	2.0Ø	1.0	40	120 #	20M§Δ		80n☑		T25c	AØ
18#	2SC1338A	267m	40 Ø	§J	4.0		35	4.5	17	500uØ	10Ø	100m	10	180 #	1.0G§			PE	TO129	
19#	2SC1968A	267m	40 Ø	§J	5.0		35	4.0	17	500uØ	10Ø	100m	10 #		800M§			PE		GE
20#	2SD362	270m	40 Ø	§J	8.0 #		150	8.0	100	20u	5.0Ø	5.0	30	120 #				EM	TO66	CØ
21▼#	2SD470B	272m	15 Ø	†J	1.5		1.6k	5.0	700	30uØ	5.0Ø	1.0	2.0	6.0		2.5	1.3u#		TO66	C
22	MRF835	276m	50 Ø	§S	4.0		36 †	4.0†	16	5.0m§♦	5.0Ø	1.0	10						W30	AD
23	40613	277m	1.8	$A	4.0	2.0		5.0	25 ☑	2.0u	4.0Ø	1.0	30	120				H	B17a	T
24	40618	277m	1.8	$A	4.0	2.0		5.0	30 ☑	2.0u	4.0Ø	1.0	30	120				H	B17a	T
25	40621	277m	1.8	$A	4.0	2.0		5.0	32 ☑	500n	4.0Ø	1.5	25	100				H	B17a	T
26	40622	277m	1.8	$A	4.0	2.0		5.0	40 ☑	500u*	4.0Ø	1.5	25	100				H	B17a	T
27	40629	277m	1.8	$A	4.0	2.0		5.0		500u*	4.0Ø	1.0	20	70				H	B17a	T
28	40630	277m	1.8	$A	4.0	2.0		5.0		500u*	4.0Ø	1.5	20	70				H	B17a	T
29	SPT3439	280m	50	§J	5.0	1.0	500	7.0	400	20uØ	10Ø	200	20		20M§Δ				TO3	
30	2N5773	285m	5.0 Ø	§S	500m	150m	65 †	3.5†	35	2.0m§♦	5.0Ø	50m	20	200					TO117	R
31	2N5848	285m	50 Ø	§S	3.5		48	4.0	24	1.0mØ	5.0Ø	1.2	3.0						T72h	R
32	2N5994	285m§	35 Ø	§S	5.0		65	3.5	30	5.0m§									T78	R
33	2N5996	285m§	35 Ø	§S	5.0		36	3.5	18	5.0mΔ									T78	R
34	40631	285m	1.8	$A	4.0	2.0		5.0		500u*	4.0Ø	2.0	20	70	800k	5.0		H	B17a	T
35	41504	285m	36 Ø	§J	4.0	2.0		4.0	35 §	5.0m*	4.0Ø	1.0	25					H	Y220b	XØ
36	B25-12	285m	50 Ø	§J	4.0			4.0	18						175M#				T91	R
37	B25-28	285m	50 Ø	§J	5.0			4.0	35						175M#				T91	R
38#	BD433	285m	36 Ø	§J	4.0 †	1.0	22 †	5.0†	22	100u♦	5.0Ø	10m	40 #		3.0M§Δ	250m#		EΔ	TO126	B
39#	BD435	285m	36 Ø	§J	4.0 †	1.0	32 †	5.0†	32	100u♦	5.0Ø	10m	40 #		3.0M§Δ	250m#		EΔ	TO126	B
40#	BD437	285m	36 Ø	§J	4.0 †	1.0	45 †	5.0†	45	100u♦	5.0Ø	10m	30 #		3.0M§Δ	300m#		EΔ	TO126	B
41#	BD439	285m	36 Ø	§J	4.0 †	1.0	60 †	5.0†	60	100u♦	5.0Ø	10m	20 #		3.0M§Δ	400m#		EΔ	TO126	B
42#	BD441	285m	36 Ø	§J	4.0 †	1.0	80 †	5.0†	80	100u♦	5.0Ø	10m	15 #		3.0M§Δ	400m#		EΔ	TO126	B
43	C25-12	285m	50 Ø	§J	4.0			4.0	17						470M#				T91	R
44	CD1803*	285m	40 Ø	§J	5.0 †			4.0†	17										T75g	R
45	MRF233	285m	50 Ø	§S	3.5		36 †	4.0†	18	1.0m♦Ø	5.0Ø	1.0	5.0		90M#				T93b	R
46	MRF401	285m	50 Ø	§S	3.3			4.0	30		5.0Ø	1.0	20		30M☑				T93b	R
47	RCA1A01	285m	5.0 Ø	§J	1.0	500m		4.0	70	1.0uΔ	4.0Ø	10m	40	200	120M§Δ	9.3		DPL	TO39	AØ
48	RCA1A06	285m	5.0 Ø	§J	1.0	500m	75	4.0	75 §	10u*♦	4.0Ø	150m	50	250	120M§Δ	5.3		DPL	TO39	AØ
49	RCA1A07	285m	5.0 Ø	§J	1.0	50m	50	3.0	40	10u*♦	10Ø	3.0m	50	250	120M§Δ	50		DPL	TO39	AØ
50	RCA1A17	285m	5.0 Ø	§J	1.0	500m		4.0	90	10uΔ♦	4.0Ø	10m	40	200	120M§Δ	9.3		DPL	TO39	AØ
51	RCA29ASDH†	285m	36 Ø	§J	4.0	1.0	60	5.0	60	300uΔ♦	4.0Ø	200m	40 #		800k§Δ	700m#	2.3uØ	DH	Y220b	XØ
52	RCA29BSDH†	285m	36 Ø	§J	4.0	1.0	80	5.0	80	300uΔ♦	4.0Ø	200m	40 #		800k§Δ	700m#	2.3uØ	DH	Y220b	XØ
53	RCA29SDH†	285m	36 Ø	§J	4.0	1.0	40	5.0	40	300uΔ♦	4.0Ø	200m	40 #		800k§Δ	700m#	2.3uØ	DH	Y220b	XØ
54	RCA31ASDH†	285m	36 Ø	§J	4.0	1.0	60	5.0	60	300uΔ♦	4.0Ø	1.0	25 #		800k§Δ	400m#	2.3uØ	DH	Y220b	XØ
55	RCA31BSDH†	285m	36 Ø	§J	4.0	1.0	80	5.0	80	300uΔ♦	4.0Ø	1.0	25 #		800k§Δ	400m#	2.3uØ	DH	Y220b	XØ
56	RCA31SDH†	285m	36 Ø	§J	4.0	1.0	40	5.0	40	300uΔ♦	4.0Ø	1.0	25 #		800k§Δ	400m#	2.3uØ	DH	Y220b	XØ
57	RCA3054	285m	36 Ø	§J	4.0	2.0	90	7.0	55 ☑	500uΔ♦	4.0Ø	500m	25	100 #	800k§Δ			H△	Y220b	X
58	S10-12*	285m	50 Ø	§J	4.0 †			4.0†	18		5.0Ø	500m	10		100M§Δ				W52c	R
59	2N5690	286m	50 Ø	§S	5.0		50 †	4.0†	30	1.0mΔ	10Ø	100m	10						TO128	R
60	2N6199	286m	50 Ø	§S	5.0		60 †	4.0†	35	10m§†									T91	R
61	2N6233†	286m	50 Ø	§J	5.0	2.0	250 †	6.0†	225	100u♦	5.0Ø	1.0	25	125	20M§Δ	5.0	500n☑		TO66	CØ
62	2N6234†	286m	50 Ø	§J	5.0	2.0	300 †	6.0†	275	100u♦	5.0Ø	1.0	25	125	20M§Δ	5.0	500n☑		TO66	CØ
63	2N6235†	286m	50 Ø	§J	5.0	2.0	350 †	6.0†	325	100u♦	5.0Ø	1.0	25	125	20M§Δ	5.0	500n☑		TO66	CØ
64	2N6261	286m	50 Ø	§J	4.0	2.0	90 †	7.0†	80	500uΔ♦	2.0Ø	1.5	25	100 #	30kΔ				TO66	CØ
65	2N6264	286m	50 Ø	§J	3.0	2.0	170 †	7.0†	150	1.0mΔ♦	2.0Ø	1.0	20	60 #	2.0M§Δ	500m#			TO66	CØ
66	MRF209	286m	50 Ø	§S	4.0		36 †	4.0†	18	500uØ♦	5.0Ø	500m	5.0						T93a	R
67	2N5293	288m	36 Ø	§J	4.0	2.0	80 †	7.0†	75 §	100mΔ♦	4.0Ø	500m	30	120	800k§Δ	555m			Y220a	TØ
68	2N5294	288m	36 Ø	§J	4.0	2.0	80 †	7.0†	75 §	100mΔ♦	4.0Ø	500m	30	120	800k§Δ	555m			Y220b	DØ
69	2N5295	288m	36 Ø	§J	4.0	2.0	60 †	5.0†	50 §	100mΔ♦	4.0Ø	1.0	30	120	800k§Δ	555m			Y220a	TØ
70	2N5296	288m	36 Ø	§J	4.0	2.0	60 †	5.0†	50 §	100mΔ♦	4.0Ø	1.0	30	120	800k§Δ	555m			Y220b	DØ
71	2N5297	288m	36 Ø	§J	4.0	2.0	80 †	5.0†	70 §	100mΔ♦	4.0Ø	1.5	20	80	800k§Δ	555m			Y220a	TØ
72	2N5298	288m	36 Ø	§J	4.0	2.0	80 †	5.0†	70 §	100mΔ♦	4.0Ø	1.5	20	80	800k§Δ	555m			Y220b	DØ
73#	BDY80	288m	36 Ø	§J	4.0 †	2.0	40 †	10	40	200uØ	5.0	500m	40	240 #	1.0M§			H	B17	DØ
74#	BDY81	288m	36 Ø	§J	4.0 †	2.0	60 †	10	60	200uØ	5.0	500m	40	240 #	1.0M§			H	B17	DØ
75	RCA3441	288m	36 Ø	§J	3.0	2.0	160	7.0	140 ☑	5.0mΔ♦	4.0Ø	500m	20	150	200kΔ§	2.4		H	Y220b	DØ
76	RCA6263	288m	36 Ø	§J	3.0	2.0	140	7.0	120 ☑	5.0mΔ♦	4.0Ø	500m	20	150	200kΔ	2.4		H	Y220b	DØ
77	SDI345	288m	1.8	$A	4.0	2.0		5.0	4.0 ☑	1.0m#	4.0Ø	1.5	25	125		666m		DME†	Y220a	D
78	SDJ345	288m	1.8	$A	4.0	2.0		5.0	45 ☑	1.0m#	4.0Ø	2.0	20	100		550m		DME†	Y220a	D
79	SDK345	288m	1.8	$A	4.0	2.0		5.0	45 ☑	1.0m#	4.0Ø	2.5	20	100		480m		DME†	Y220a	D
80	SDL345	288m	1.8	$A	4.0	2.0		5.0	55 ☑	1.0m#	4.0Ø	2.5	20	100		480m		DME†	Y220a	D
81	SDM345	288m	1.8	$A	4.0	2.0		5.0	45 ☑	1.0m#	4.0Ø	200m	40	200		1.0		DME†	Y220a	D
82	SDN345	288m	1.8	$A	4.0	2.0		5.0	60 ☑	1.0m#	4.0Ø	300m	40	200		1.0		DME†	Y220a	D
83	SDP345	288m	1.8	$A	4.0	2.0		4.0	100 ☑	1.0m#	4.0Ø	500m	40	200		1.0		DME†	Y220a	D
84	2N2829	300m§	40 Ø	§J	3.0		80	10	60		4.0Ø	1.0	20	60	1.0M§Δ	300m	1.0uØ	D	T25	
85	2N2877†	300m§	30 Ø	§J	5.0	500m	80	8.0	60	100n♦Ø	2.0Ø	1.0	20	60 #	30M§Δ		120n		TO111	AØ
86	2N2878†	300m§	30 Ø	§J	5.0	500m	80	8.0	60	100n♦Ø	2.0Ø	1.0	40	120 #	50M§Δ		80n		TO111	AØ
87	2N2879†	300m§	30 Ø	§J	5.0	500m	100	8.0	80	100n♦Ø	2.0Ø	1.0	20	60 #	30M§Δ		120n		TO111	AØ
88	2N2880†	300m§	30 Ø	§J	5.0	500m	100	8.0	80	100n♦Ø	2.0Ø	1.0	40	120 #	50M§Δ		80n		TO111	AØ
89	JAN2N2880†	300m§	2.0	§A	5.0		110	8.0	80	400nØ	5.0Ø	1.0	40	120 #	20M§Δ	250m	300n☑		ZA30	AØ
90	JAN2N3749†	300m§	2.0	§A	5.0		110	8.0	80	400nØ	5.0Ø	1.0	40	120 #	20M§Δ	250m	300n☑		T53e	M
91	2N3996†	300m§	2.0	§J	5.0	1.0	100	8.0	80	5.0u§	2.0Ø	50m	30		40M§Δ		300nØ		T53	M
92	2N3997†	300m§	2.0	§J	5.0	1.0	100	8.0	80	5.0u§	2.0Ø	50m	60		40M§Δ		300nØ		T53	M
93	2N3998†	300m§	2.0	§J	5.0	1.0	100	8.0	80	5.0u§	2.0Ø	50m	30		40M§Δ		300nØ		T42	AØ
94	2N3999†	300m§	2.0	§J	5.0	1.0	100	8.0	80	5.0u§	2.0Ø	50m	60		40M§Δ		300nØ		T42	AØ
95	2N5658†	300m	30	§J	10	2.0	120	7.0	80	200n§	5.0Ø	5.0	50	150 #	30M§Δ		150nØ		TO59	AØ
96	2N5659†	300m	30	§J	10	2.0	120	7.0	80	200n§	5.0Ø	5.0	50	150 #	30M§Δ		150nØ		TO111	G
97	2N5664†	300m§	30 Ø	§J	3.0	600m	250 †	6.0†	200	1.0u§♦	5.0Ø	1.0	40	120 #	20M§Δ		250nØ☑		TO66	CØ
98	2N5665†	300m§	30 Ø	§J	3.0	600m	400 †	6.0†	300	1.0u§♦	5.0Ø	1.0	25	75 #	20M§Δ		250nØ☑		TO66	CØ
99	2N5730†	300m#	45 Ø	§J	10	2.0	100 †	5.0†	80	1.0m§♦	2.0Ø	2.0	30	300	30M§Δ	240m	200n☑		TO59	A
100♦#	2SC1191	300m	45	§J	7.0 #		36	4.0	18	500u	13Ø	800m	10	50 Ø				PE	F21	F
101#	2SC1314	300m	45 Ø	§J	5.0		40	4.5	18	2.0mØ	10Ø	200m	10	180 #	450M§			PE		
102#	2SC1689	300m	45 Ø	§J	3.0		55	4.0	35	1.0mØ	10Ø	100m	10 #	180 #	400M§			PE†		
103	2850-2†	300m	2.0	§A	5.0		100	5.0	80	100n§	1.0Ø	50m	25	50 Ø	40M§	250m	50n	PL	TO59	AØ
104	2851-2†	300m	2.0	§A	5.0		100	5.0	80	100n§	1.0Ø	50m	25	50 Ø	40M§	400m	50n	PL	TO59	AØ
105	2852-2†	300m	2.0	§A	5.0		100	5.0	80	100n§	1.0Ø	50m	15	25 Ø	30M§	400m	60n	PL	TO59	AØ
106	2853-2†	300m	2.0	§A	5.0		60	5.0	40	100n§	1.0Ø	1.0	40 #	85 Ø	40M§		50n	PL	TO59	AØ
107	2854-2†	300m	2.0	§A	5.0		60	5.0	40	100n§	1.0Ø	50m	50	90 Ø	50M§		40n	PL	TO59	AØ
108	2855-2†	300m	2.0	§A	5.0		60	5.0	40	100n§	1.0Ø	50m	25	50 Ø	40M§		50n	PL	TO59	AØ
109	2856-2†	300m	2.0	§A	5.0		60	5.0	40	100n§	1.0Ø	50m	15	25 Ø	30M§		60n	PL	TO59	AØ
110#	BD117	300m	30	$			100	5.0	60		5.0Ø	2.0 Ø	30	110 Ø				PE	TO3	GØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	RCA1C12	320m	40 Ø	§J	4.0	2.0	140	5.0	120	100u*♦	2.0Ø	1.0	40	250	4.0M§Δ			E	Y220b	DØ
2	RCA31†	320m	2.0	§J	5.0	1.0	40	5.0	40	200uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ		400nØ	Et	Y220b	XØ
3	RCA31A†	320m	2.0	§J	5.0	1.0	60	5.0	60	300uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ		400nØ	Et	Y220b	XØ
4	RCA31B†	320m	2.0	§J	5.0	1.0	80	5.0	80	300uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ		400nØ	Et	Y220b	XØ
5	RCA31C†	320m	2.0	§J	5.0	1.0	100	5.0	100	300uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ		400nØ	Et	Y220b	XØ
6▼#	S1236	320m	40 Ø	§J	4.0	4.0 Ø	100	5.0	90	20uØ	5.0Ø	500m	40	200	10M§	500m		DME	B26a	D
7	TIP31†	320m	2.0	§J	3.0 †	1.0	40 †	5.0†	40	300uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ	400m#	500nØ	DM	B1	BØ
8▼	TIP31Ø†	320m	2.0	§J	5.0	1.0	40	5.0	40	200u§	4.0Ø	3.0	10	50 #	3.0MΔ§	400m#	400nØ	Et	Y220b	XØ
9	TIP31A†	320m	2.0	§J	3.0 †	1.0	60 †	5.0†	60	300uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ	400m#	500nØ	DM	B1	BØ
10▼	TIP31AØ†	320m	2.0	§J	5.0	1.0	60	5.0	60	200u§	4.0Ø	3.0	10	50 #	3.0MΔ§	400m#	400nØ	Et	Y220b	XØ
11	TIP31B†	320m	2.0	§J	3.0 †	1.0	80 †	5.0†	80	300uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ	400m#	500nØ	DM	B1	BØ
12▼	TIP31BØ†	320m	2.0	§J	5.0	1.0	80	5.0	80	200u§	4.0Ø	3.0	10	50 #	3.0MΔ§	400m#	400nØ	Et	Y220b	XØ
13	TIP31C†	320m	2.0	§J	3.0 †	1.0	100 †	5.0†	100	300uΔ♦	4.0Ø	3.0	10	50 #	3.0M§Δ	400m#	500nØ	DM	B1	BØ
14▼	TIP31CØ†	320m	2.0	§J	5.0	1.0	100	5.0	100	200u§	4.0Ø	3.0	10	50 #	3.0MΔ§	400m#	400nØ	Et	Y220b	XØ
15	TIP47†	320m	2.0	§J	1.0 †	600m	350 †	5.0†	250	1.0mΔ♦	10Ø	300m	30	150 #	10M§Δ		200nØ		B1	BØ
16▼	TIP47Ø†	320m	1.8	§J	1.0	600m	350	5.0	250	1.0m§	10Ø	300m	30	150 #	5.0M§Δ	1.0	200nØ		Y220b	XØ
17	TIP48†	320m	2.0	§J	1.0 †	600m	400 †	5.0†	300	1.0mΔ♦	10Ø	300m	30	150 #	10M§Δ		200nØ		B1	BØ
18▼	TIP48Ø†	320m	1.8	§J	1.0	600m	400	5.0	300	1.0m§	10Ø	300m	30	150 #	5.0M§Δ	1.0	200nØ		Y220b	XØ
19	TIP49†	320m	2.0	§J	1.0 †	600m	450 †	5.0†	350	1.0mΔ♦	10Ø	300m	30	150 #	10M§Δ		200nØ		B1	BØ
20▼	TIP49Ø†	320m	1.8	§J	1.0	600m	450	5.0	350	1.0m§	10Ø	300m	30	150 #	5.0M§Δ	1.0	200nØ		Y220b	XØ
21	TIP50†	320m	2.0	§J	1.0 †	600m	500 †	5.0†	400	1.0mΔ♦	10Ø	300m	30	150 #	10M§Δ		200nØ		B1	BØ
22▼	TIP50Ø†	320m	1.8	§J	1.0	600m	500	5.0	400	1.0m§	10Ø	300m	30	150 #	5.0M§Δ	1.0	200nØ		Y220b	XØ
23	2N5614	330m#	50 Ø	§J	5.0	2.0	80 †	6.0†	60	1.0m#♦	5.0Ø	2.5	70	200 #	70M§Δ				TO3	CØ
24	2N5616	330m#	50 Ø	§J	5.0	2.0	100 †	6.0†	80	1.0m#♦	5.0Ø	2.5	30	90 #	60M§Δ				TO3	CØ
25	2N5618	330m#	50 Ø	§J	5.0	2.0	100 †	6.0†	80	1.0m#♦	5.0Ø	2.5	70	200 #	70M§Δ				TO3	CØ
26	2N5620	330m#	50 Ø	§J	5.0	2.0	120 †	6.0†	100	1.0m#♦	5.0Ø	2.5	30	90 #	60M§Δ				TO3	CØ
27#	2SC2132	330mØ	50 Ø	§J	9.0		35	4.0	17	1.0mØ	10Ø	1.0	20	180 #	1.0G§			PE	W96	VØ
28	40464	330m	40 Ø	§J	5.0	1.0	35	4.0	35	250u	1.0Ø	2.0	30	170	2.0M§Δ			E	TO3	CØ
29	40465	330m	40 Ø	§J	5.0	1.0	40	4.0	40	100u	1.0Ø	2.0	50	170	2.0M§Δ			E	TO3	CØ
30	40466	330m	40 Ø	§J	5.0	1.0	50	4.0	50	100u	1.0Ø	2.0	50	170	2.0M§Δ			E	TO3	CØ
31	40873	330m	40 Ø	§J	7.0	3.0		5.0	70 Ø	1.0m*	4.0	2.0	30	150	4.0M§Δ	500m		E	Y220b	DØ
32	MRF5177	330m	58 Ø	§S	4.0	1.0	60	4.0	35	2.0mØ♦	5.0Ø	100m	10	100					W91	C
33	MRF5177A	330m	58 Ø	§S	4.0	1.0	60	4.0	35	2.0mØ♦	5.0Ø	100m	10	100					T93e	R
34	SDT7B01	330m	53		10		80	5.0	60	1.0u	5.0Ø	5.0	40	120	60M	120m		DPL	TO111	G
35	SDT7B02	330m	53		10		100	5.0	80	1.0u	5.0Ø	5.0	40	120	60M	120m		DPL	TO111	G
36	SDT7B03	330m	53		10		120	5.0	100	1.0u	5.0Ø	5.0	40	120	60M	120m		DPL	TO111	G
37	SDT7B04	330m	53		10		140	5.0	120	1.0u	5.0Ø	5.0	40	120	60M	120m		DPL	TO111	G
38	SDT7B05	330m	53		10		80	5.0	60	1.0u	5.0Ø	5.0	20		60M	120m		DPL	TO111	G
39	SDT7B06	330m	53		10		100	5.0	80	1.0u	5.0Ø	5.0	20		60M	120m		DPL	TO111	G
40	SDT7B07	330m	53		10		120	5.0	100	1.0u	5.0Ø	5.0	20		60M	120m		DPL	TO111	G
41	SDT7B08	330m	53		10		140	5.0	120	1.0u	5.0Ø	5.0	20		60M	120m		DPL	TO111	G
42	SDT4941	330m	53		5.0		225	8.0	200		5.0Ø	1.0	20	60	60M	400m		DPL	TO111	G
43	SDT4942	330m	53		5.0		250	8.0	225		5.0Ø	1.0	20	60	60M	400m		DPL	TO111	G
44	SDT4943	330m	53		5.0		275	8.0	250		5.0Ø	1.0	20	60	60M	400m		DPL	TO111	G
45	SDT4944	330m	53		5.0		300	8.0	275		5.0Ø	1.0	20	60	60M	400m		DPL	TO111	G
46	SDT4945	330m	53		5.0		325	8.0	300		5.0Ø	1.0	20	60	60M	400m		DPL	TO111	G
47	2N1069†	333m	50 Ø	§A	4.0	1.3	60	9.0	45	1.0m	4.0Ø	1.5	10	50	1.2M†	2.0	1.8u	D	TO3	CØ
48	2N1070†	333m	50 Ø	§A	4.0	1.3	60	9.0	45	1.0m	4.0Ø	1.5	10	50	1.2M†	670m	1.8u	D	TO3	CØ
49	2N1470	333m		§J	3.0		60	3.0	60	5.0m	5.0Ø	1.0	15		1.0M†Δ	3.0		D	TO3	CØ
50	2N3744†	333m§	30 Ø	§J	5.0	500m	60	7.0	40	100nØ	5.0Ø	1.0	20	60 #	30M§Δ		120n		T53	G
51	2N3745†	333m§	30 Ø	§J	5.0	500m	80	8.0	60	100nØ	5.0Ø	1.0	20	60 #	30M§Δ		120n		T53	G
52	2N3746†	333m§	30 Ø	§J	5.0	500m	100	8.0	80	100nØ	5.0Ø	1.0	20	60 #	30M§Δ		120n		T53	G
53	2N3747†	333m§	30 Ø	§J	5.0	500m	60	7.0	40	100nØ	5.0Ø	1.0	40	120 #	40M§Δ		80n		T53	G
54	2N3748†	333m§	30 Ø	§J	5.0	500m	80	8.0	60	100nØ	5.0Ø	1.0	40	120 #	40M§Δ		80n		T53	G
55	2N3749†	333m§	30 Ø	§J	5.0	500m	100	8.0	80	100nØ	5.0Ø	1.0	40	120 #	40M§Δ		80n		T53	G
56	2N3750†	333m§	30 Ø	§J	5.0	500m	60	7.0	40	100nØ	5.0Ø	1.0	100	300 #	50M§Δ		80n		T53	G
57	2N3751†	333m§	30 Ø	§J	5.0	500m	80	8.0	60	100nØ	5.0Ø	1.0	100	300 #	50M§Δ		80n		T53	G
58	2N3752†	333m§	30 Ø	§J	5.0	500m	100	8.0	80	100nØ	5.0Ø	1.0	100	300 #	50M§Δ		80n		T53	G
59	JAN2N3996†	333m§	2.0 Δ	§S	5.0		100	8.0	80	5.0u§	2.0Ø	1.0	40	120 #	40M§Δ		300nØØ		T53f	M
60	JAN2N3997†	333m§	2.0 Δ	§S	5.0		100	8.0	80	5.0u§	2.0Ø	1.0	80	240 #	40M§Δ		300nØØ		T53f	M
61	JAN2N3998†	333m§	2.0 Δ	§S	5.0		100	8.0	80	5.0u§	2.0Ø	1.0	40	120 #	40M§Δ		300nØØ		T42d	A
62	JAN2N3999†	333m§	2.0 Δ	§S	5.0		100	8.0	80	5.0u§	2.0Ø	1.0	80	240 #	40M§Δ		300nØØ		T42d	A
63	2N4111	333m#	30 Ø	§J	5.0	2.0	100	8.0	60	2.0m#	5.0Ø	2.0	40	120 #	50M§Δ				TO3	AØ
64	2N4112	333m#	30 Ø	§J	5.0	2.0	100	8.0	60	2.0m#	5.0Ø	2.0	100	300 #	60M§Δ				TO3	AØ
65	2N4113	333m#	30 Ø	§J	5.0	2.0	120	8.0	80	2.0m#	5.0Ø	2.0	40	120 #	50M§Δ				TO3	AØ
66	2N4114	333m#	30 Ø	§J	5.0	2.0	120	8.0	80	2.0m#	5.0Ø	2.0	100	300 #	60M§Δ				TO3	AØ
67	2N5002	333m#	50 Ø	§J	5.0	2.0	100	6.0	80	1.0m#	5.0Ø	2.5	30	90 #	60M§Δ				TO59	A
68	2N5004	333m#	50 Ø	§J	5.0	2.0	100	6.0	80	1.0m#	5.0Ø	2.5	70	200 #	70M§Δ				TO59	A
69	2N5284	333m#	50 Ø	§J	5.0	2.0	120	6.0	80	1.0m#	5.0Ø	2.5	30	90 #	60M§Δ				TO59	A
70	2N5285	333m#	50 Ø	§J	5.0	2.0	120	6.0	80	1.0m#	5.0Ø	2.5	70	200 #	70M§Δ				TO59	A
71	2N5304§	333m§	25 Ø	§J	10	2.0	50 †	6.0†	40	10u	2.0Ø	2.0	30	120 #	100M§Δ			Δ	TO61	AØ
72	JAN2N5304§	333mΔ	25 Ø	§J	10 †	2.0	50 †	6.0†	40	10u	2.0Ø	2.0	30	120 #	70M§Δ	120m#	150mØØ	Δ	TO61	AØ
73	2N5328†	333m§	30 Ø	§J	10	2.0	100	5.0	80		2.0Ø	1.0	100	300	100M§Δ	120m	200nØ		TO59	A
74#	2S012	333m	38 Ø	§J	2.0	500m	60	10			10Ø	1.0	10		10M§	5.0		D	F33	
75#	2SC646	333m§	25 Ø	§J	4.0		60	5.0	60	10u	4.0Ø	2.5	20	200	50M§	380m		DM	TO3	CØ
76#	2SC1297	333mØ	50 Ø	§J	3.5		50	4.0	25	1.0mØ	10Ø	2.0	15 #		170M§Δ			PE	T87	S
77#	2SC1511*	333m	50 Ø	§J	3.0		50	4.0	25	2.0mØ	10Ø	700m	15	200 #				E	W55b	R
78#	2SC1946	333m	50 Ø	§J	7.0		35	4.0	17	2.0mØ	10Ø	200m	10 #	180 #	400M§			PE		
79#	2SD50	333m	50 Ø	§J	6.0	3.0	100	10	55	15uØ	4.0Ø	1.5	15	60	1.5k†			D	TO3	
80#	2SD174	333m	50 Ø	§J	5.0	3.0	60	6.0	40	20uØ	4.0Ø	5.0	10	60 *	1.2M†			D	TO3	
81#	2SD175	333m	50 Ø	§J	5.0	3.0	100	6.0	60	20uØ	4.0Ø	5.0	10	60 *	1.2M†	3.0		D	TO3	
82#	2SD175M	333m	50 Ø	§J	5.0		100	6.0	60	20uØ	4.0Ø	5.0	15	45	500k†	300m		D	TO3	CØ
83♦#	2SD198	333m§	25 Ø	§J	1.0	500m	300	6.0	300 §	5.0mØ	5.0Ø	100m	35	330	45M§	5.0		DM	TO3	CØ
84♦#	2SD199	333m	25 Ø	§J	250m	500m	800	6.0	700 §	1.0m	10Ø	200m	25		7.0M§	20		DM	TO3	
85	1718-0402†	333m§	33 Ø	§J	10 #	2.0 #	40	7.0	40 Ø	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØØ	EM	TO111	G
86	1718-0405†	333m§	33 Ø	§J	10 #	2.0 #	40	7.0	40 Ø	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØØ	EM	TO111	G
87	1718-0602†	333m§	33 Ø	§J	10 #	2.0 #	60	7.0	60 Ø	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØØ	EM	TO111	G
88	1718-0605	333m§	33 Ø	§J	10 #	2.0 #	60	7.0	60 Ø	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØØ	EM	TO111	G
89	1718-0802†	333m§	33 Ø	§J	10 #	2.0 #	80	7.0	80 Ø	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØØ	EM	TO111	G
90	1718-0805†	333m§	33 Ø	§J	10 #	2.0 #	80	7.0	80 Ø	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØØ	EM	TO111	G
91	1718-1002†	333m§	33 Ø	§J	10 #	2.0 #	100	7.0	100 Ø	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØØ	EM	TO111	G
92	1718-1005†	333m	33 Ø	§J	10 #	2.0 #	100	7.0	100 Ø	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØØ	EM	TO111	G
93	1718-1202†	333m	33 Ø	§J	10 #	2.0 #	120	7.0	120 Ø	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØØ	EM	TO111	G
94	1718-1205†	333m	33 Ø	§J	10 #	2.0 #	120	7.0	120 Ø	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØØ	EM	TO111	G
95	1718-1402†	333m	33 Ø	§J	10 #	2.0 #	140	7.0	140 Ø	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØØ	EM	TO111	G
96	1718-1405†	333m	33 Ø	§J	10 #	2.0 #	140	7.0	140 Ø	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØØ	EM	TO111	G
97	1718-1602†	333m	33 Ø	§J	10 #	2.0 #	160	7.0	160 Ø	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØØ	EM	TO111	G
98	1718-1605†	333m	33 Ø	§J	10 #	2.0 #	160	7.0	160 Ø	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØØ	EM	TO111	G
99	1718-1802†	333m	33 Ø	§J	10 #	2.0 #	180	7.0	180	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØØ	EM	TO111	G
100	1718-1805†	333m§	33 Ø	§J	10 #	2.0 #	180	7.0	180 Ø	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØØ	EM	TO111	G
101	2849-2†	333m	2.0	§S	3.0		100	5.0	80	100n§	1.0Ø	1.0	100 #		30M§Δ				TO59	Ø
102	B144000	333m	25	§J	10	2.0	50	5.0	40	1.0m§	10Ø	3.0	45	90			2.0u	Δ	TO59	A
103	B144001	333m	25	§J	10	2.0	50	5.0	40	1.0m§	10Ø	3.0	70	140			2.0u	Δ	TO59	A
104	B144002	333m	25	§J	10	2.0	50	5.0	40	1.0m§	10Ø	3.0	120	240			2.0u	Δ	TO59	A
105	B144003	333m	25	§J	10	2.0	70	5.0	60	1.0m§	10Ø	3.0	45	90			2.0u	Δ	TO59	A
106	B144004	333m	25	§J	10	2.0	70	5.0	60	1.0m§	10Ø	3.0	70	140			2.0u	Δ	TO59	A
107	B144005	333m	25	§J	10	2.0	70	5.0	60	1.0m§	10Ø	3.0	120	240			2.0u	Δ	TO59	A
108	B144006	333m	25	§J	10	2.0	90	5.0	80	1.0m§	10Ø	3.0	45	90			2.0u	Δ	TO59	A
109	B144007	333m	25	§J	10	2.0	90	5.0	80	1.0m§	10Ø	3.0	70	140			2.0u	Δ	TO59	A
110	B144008	333m	25	§J	10	2.0	90	5.0	80	1.0m§	10Ø	3.0	120	240			2.0u	Δ	TO59	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # TO200 Ser.	LEAD CONFIG.
1	JAN2N2150	400m$	30 Ø	§A	2.0	2.0	150	8.0	100	100u	5.0Ø	1.0	20	60	10M§△				T21	AØ
2	2N2151	400m$	30 Ø	§J	2.0	1.0	125	8.0	80	5.0u#	5.0Ø	1.0	40	120 #	10M§△				TO111	AØ
3	JAN2N2151	400m$	30 Ø	§A	2.0	2.0	150	8.0	100	100u	5.0Ø	1.0	40	120	10M§△				T21	AØ
4	2N2811	400m	70 Ø	§J	10	2.0	80	8.0	60	100nØ	5.0Ø	5.0	20	60 #	15M§△	100m	200n☑	PL	T29	
5	2N2812	400m	70 Ø	§J	10	2.0	80	8.0	60	100nØ	5.0Ø	5.0	40	120 #	15M§△	100m	150n☑	PL	T29	
6	2N2813	400m	70 Ø	§J	10	2.0	120	8.0	80	100nØ	5.0Ø	5.0	20	60 #	15M§△	100m	200n☑	PL	T29	
7	2N2814	400m	70 Ø	§J	10	2.0	120	8.0	80	100nØ	5.0Ø	5.0	40	120 #	15M§△	100m	150n☑	PL	T29	
8	2N3220	400m	2.0	§C	2.0	1.0	100	8.0	80	10u#	5.0Ø	1.0	20	60 #	10M§△	1.3			T47	
9	2N3221	400m	2.0	§C	2.0	1.0	100	8.0	80	10u#	5.0Ø	1.0	40	120 #	10M§△	1.3			T47	
10	2N3222	400m	2.0	§C	2.0	1.0	80	8.0	60	10u#	5.0Ø	1.0	20	60 #	10M§△	1.3			T47	
11	2N3223	400m	2.0	§C	2.0	1.0	80	8.0	60	10u#	5.0Ø	1.0	40	120 #	10M§△	1.3			T47	
12	2N3543	400mØ	60	§S	5.0	.50	65	4.0	60	.01mØ	5.0Ø	4.5	10 #	80	150M§△	.22			TO3	CØ
13	2N3850†	400m$	30 Ø	§C	5.0	500m	100	5.0	80	100n§♦	1.0Ø	1.0	50	150 #	20M§△		150n☑		TO59	AØ
14	2N3851†	400m$	30 Ø	§C	5.0	500m	100	5.0	80	100n§♦	1.0Ø	1.0	30	90 #	20M§△		150n☑		TO59	AØ
15	2N3852†	400m$	30 Ø	§C	5.0	500m	60	5.0	40	100n§♦	1.0Ø	1.0	50	150 #	20M§△		150n☑		TO59	AØ
16	2N3853†	400m$	30 Ø	§C	5.0	500m	60	5.0	40	100n§♦	1.0Ø	1.0	30	90 #	20M§△		150n☑		TO59	AØ
17	2N3950	400m	70 Ø	§S	3.3		65	4.0	35	10m♦									TO60	AØ
18	2N4131	400m	60 Ø	§J	5.0	1.0	90	4.0	80	10uØ	5.0Ø	1.0	10	80 #	150M§△				TO3	DØ
19	2N4932	400m	70 Ø	§J	3.3	1.0	50	4.0	25		5.0Ø	1.0	10	100	100M§△				TO60	AØ
20	2N4933	400m	70 Ø	§J	3.3	1.0	70	4.0	35		5.0Ø	1.0	10	100	100M§△				TO60	A
21	2N5070	400m	70 Ø	§S	3.3	1.0	65 †	4.0†	30	10mØ♦	5.0Ø	3.0	10	100	100M§△				TO60	AØ
22	2N5071	400m	70 Ø	§S	3.3	1.0	65 †	4.0†	30	10mØ♦	5.0Ø	3.0	10	100	100M§△				TO60	AØ
23	JAN2N5071	400m	2.6	§J	10			4.0	35	5.0m	5.0Ø	3.0	15	100 #					TO60	FØ
24	2N5074	400m	70 Ø	§J	3.0	300m	200	6.0	200	1.0m#†	5.0Ø	500m	30	110 #	40M§△	670m			TO59	A
25	2N5075	400m	70 Ø	§J	3.0	300m	200	6.0	200	1.0m#†	5.0Ø	500m	90	250 #	40M§△	670m			TO59	A
26	2N5076	400m	70 Ø	§J	3.0	300m	250	6.0	250	1.0m#†	5.0Ø	500m	30	110 #	40M§△	670m			TO59	A
27	2N5077	400m	70 Ø	§J	3.0	300m	250	6.0	250	1.0m#†	5.0Ø	500m	90	250 #	40M§△	670m			TO59	A
28	2N5468	400m$	40 Ø	§J	3.0	1.0	500	8.0	400	1.0m△	5.0Ø	3.0	15	60 #	2.5M§△				TO66	AØ
29	2N5469	400m$	40 Ø	§J	3.0	1.0	700	8.0	400	1.0m△	5.0Ø	3.0	15	60 #	2.5M§△				TO66	AØ
30	2N5490	400m	50 Ø	§J	7.0	3.0	60 †	5.0†	50 §	5.0m△♦	4.0Ø	2.0	20	100		455m			Y220b	DØ
31	2N5491	400m	50 Ø	§J	7.0	3.0	60 †	5.0†	50 §	5.0m△♦	4.0Ø	2.0	20	100		455m			Y220a	TØ
32	2N5492	400m	50 Ø	§J	7.0	3.0	75 †	5.0†	65 §	5.0m△♦	4.0Ø	2.5	20	100		455m			Y220b	DØ
33	2N5493	400m	50 Ø	§J	7.0	3.0	75 †	5.0†	65 §	5.0m△♦	4.0Ø	2.5	20	100		455m			Y220a	TØ
34	2N5494	400m	50 Ø	§J	7.0	3.0	60 †	5.0†	50 §	5.0m△♦	4.0Ø	3.0	20	100		455m			Y220b	DØ
35	2N5495	400m	50 Ø	§J	7.0	3.0	60 †	5.0†	50 §	5.0m△♦	4.0Ø	3.0	20	100		455m			Y220a	TØ
36	2N5496	400m	50 Ø	§J	7.0	3.0	90 †	5.0†	80 §	5.0m△♦	4.0Ø	3.5	20	100		285m			Y220b	DØ
37	2N5497	400m	50 Ø	§J	7.0	3.0	90 †	5.0†	80 §	5.0m△♦	4.0Ø	3.5	20	100		285m			Y220a	TØ
38	2N5591	400m	70 Ø	§S	4.0		36 †	4.0†	18	1.0mØ♦	5.0Ø	500m	5.0		200M§△				T72h	R
39	2N5707	400m	70 Ø	§J	4.0		70 †	4.0†	50	5.0m§♦	10Ø	100m	5.0	50	50M§△				TO128	R
40	2N5714	400m	70 Ø	§S	8.0		60 †	4.0†	40	1.0mØ♦	10Ø	10m	10						F21	FØ
41	2N5776	400m	70 Ø	§S	6.0	1.0	65 †	3.5†	35	10m§♦	5.0Ø	200m	10	150					F21	FØ
42	2N5939§	400m$	2.0	§J	10	4.0	80	5.0	80	500u§	4.0Ø	5.0	40	200 #	120M§△				TO111	A
43	2N5940§	400m$	2.0	§J	10	4.0	70	5.0	70	500u§	4.0Ø	5.0	40	200 #	120M§△				TO111	A
44	2N6129	400m	50 Ø	§J	7.0	3.0	40 †	5.0†	40	100u♦	4.0Ø	2.5	20	100 #	2.5M§△				Y220b	DØ
45	2N6130	400m	50 Ø	§J	7.0	3.0	60 †	5.0†	60	100u♦	4.0Ø	2.5	20	100 #	2.5M§△				Y220b	DØ
46	2N6131	400m	50 Ø	§J	7.0	3.0	80 †	5.0†	80	100u♦	4.0Ø	2.5	20	100 #	2.5M§△				Y220b	DØ
47	2N6477	400m$	20 Ø	§J	2.5 †	1.0	140 †	5.0†	140 #*	2.0m△♦	4.0Ø	1.0	25	150 #		800m#			Y220b	DØ
48	2N6478	400m$	20 Ø	§J	2.5 †	1.0	160 †	5.0†	160 #*	2.0m△♦	4.0Ø	1.0	25	150 #		800m#			Y220b	DØ
49	2N6495†	400m	70 Ø	§J	10	5.0	150 †	6.0†	80	100u♦#	3.0Ø	10	10	60 #	25M§△	150m#	350nØØ		TO66	CØ
50#	2SC41	400m		§J	5.0	1.5	150	6.0		60m	10Ø	1.0	12	92	20M†	2.0		ME	TO3	
51#	2SC519A†	400m	50 Ø	§J	7.0	7.0 Ø	130	5.0	110	1.0mØ	5.0Ø	1.0	20		20M†	400m	200n	DM	TO3	CØ
52#	2SC520A†	400m	50 Ø	§J	7.0	7.0 Ø	100	5.0	80	1.0mØ	5.0Ø	1.0	30		20M†	400m	200n	DM	TO3	CØ
53#	2SC521A†	400m	50 Ø	§J	7.0	7.0 Ø	70	5.0	50	1.0mØ	5.0Ø	1.0	30		20M†	400m	200n	DM	TO3	CØ
54#	2SC558	400m	50 Ø	§J	5.0	5.0 Ø	250	5.0	250 Ø	1.0mØ	5.0Ø	5.0	20	40 Ø	20M†	400m	200n	DM	TO3	CØ
55♦#	2SC642	400m	50 Ø	§J	1.0	1.0 Ø	1.1k	5.0	700 §	10uØ	15Ø	150m	30	160	2.0M§	13		DME	TO3	CØ
56♦#	2SC642A	400m	50 Ø	§J	1.0	1.0 Ø	1.5k	5.0	800 §	10uØ	15Ø	150m	30	160	2.0M§	13		DME	TO3	C
57♦#	2SC643	400m	50 Ø	§J	2.5		1.1k	5.0	1.1kØ	10uØ	15Ø	2.0	7.0		2.0M†△	5.5		DME	TO3	CØ
58♦#	2SC643A	400m	50 Ø	§J	2.5	2.5 Ø	1.5k	5.0	1.5kØ	10uØ	15Ø	2.0	5.0		2.0M†△	750m		DME	TO3	CØ
59#	2SC665H	400m	50 Ø	§J	7.0	2.5	130	6.0	80	200u	5.0Ø	5.0	30	130		200m		D	F6h	CØ
60#	2SC681	400m	50 Ø	§J	6.0		200	5.0	70	15m#						400m	1.0u#☑	D	F6h	CØ
61#	2SC681A	400m	50 Ø	§J	6.0		250	5.0	80	15m#						300m	1.0u#☑	D	F6h	CØ
62#	2SC935	400m	50 Ø	§J	2.5		300	5.0	300		10Ø	300m	8.0	14 Ø				D	TO3	CØ
63#	2SC940	400mØ	50 Ø	§J	5.0		200	7.0	90	2.0mØ	5.0Ø	5.0	15	120			1.0u#	ME△	TO3	CØ
64♦#	2SC1004	400m	50 Ø	§J	500m	500mØ	1.1k	5.0	700 §	10u	15Ø	150m	30	160	2.0M§	21		DME	TO3	CØ
65♦#	2SC1004A	400m	50 Ø	§J	500m	500mØ	1.5k	5.0	800 §	10uØ	15Ø	150m	30	160	2.0M§	21		DME	TO3	C
66#	2SC1021	400m	60 Ø	§J	6.0		60	5.0	40	2.0mØ	10Ø	100m	5.0 #		500M§			PE†	T79	V
67#	2SC1022	400m	60 Ø	§J	6.0		60	5.0	40	2.0mØ	10Ø	100m	5.0 #		500M§			PE†	T79	V
68♦#	2SC1030	400m	50 Ø	§J	6.0		150	6.0	80	1.0mØ	5.0Ø	1.0	35 *	200 *	10M§	300m		D	TO3	CØ
69#	2SC1101	400mØ	50 Ø	§J	1.0		1.1k	5.0	500	1.0mØ	15Ø	500m	30	120				ME	TO3	CØ
70♦#	2SC1172	400m	50 Ø	§J	6.0	6.0 Ø	1.5k	5.0	600	10uØ	10Ø	2.0	10	20 Ø	3.0M§	1.2	500n#	DME	TO3	CØ
71♦#	2SC1172A	400m	50 Ø	§J	6.0	6.0 Ø	1.5k	5.0	600	10uØ	10Ø	2.0	10	20 Ø	2.0M§		1.0u#☑	DME	TO3	CØ
72♦#	2SC1172B	400m	50 Ø	§J	7.0	7.0 Ø	1.5k	5.0	600	10uØ	10Ø	2.0	10	20 Ø	3.0M§		1.0u#☑	DME	TO3	CØ
73#	2SC1185	400m	50 Ø	§J	700m		300	5.0	250	100uØ	10Ø	400m	40 *	200 #		4.0 #		DM	TO3	CØ
74♦#	2SC1192	400m	60	§J	10 #		36	4.0	18	1.0m	13Ø	1.0	10	60 Ø	350M§			PE	F21	F
75#	2SC1208A	400m	60 Ø	§J	10		36	5.0	18	2.0mØ	10Ø	500m	10	180 #	450M§			PE		
76♦#	2SC1354	400m	60	§J	10 #		55	4.0	35	1.0mØ	13Ø	1.0	10	50 Ø				PE	F21	F
77#	2SC1358	400m	50 Ø	§	4.5		1.4k	6.0	500	20uØ	15Ø	500m	5.0	60 #			1.0u#	ME	TO3	CØ
78#	2SC1358A	400m	50 Ø	§	5.5		1.5k	6.0	500	20uØ	15Ø	4.0	5.0	35			1.0u#	ME	TO3	CØ
79#	2SC1367	400m	50 Ø	§J	1.0		1.0k	5.0	600	1.0m	10Ø	200m	30	120				D	TO3	CØ
80♦#	2SC1413	400m	50 Ø	§J	5.0		1.2k	6.0	500	1.0m						2.0	2.3u#☑	D	TO3	CØ
81♦#	2SC1413A	400m	50 Ø	§J	5.0		1.5k	6.0	500	1.0m						2.0	2.3u#☑	D	TO3	CØ
82▼#	2SC1413AH	400m	50 Ø	§J	5.0		1.5k	6.0	500	1.0m						2.0	2.3u#☑	D	TO3	CØ
83♦#	2SC1617	400m	50 Ø	§J	7.0	7.0 Ø	300	5.0	100	1.0mØ	5.0Ø	1.0	30	150	10M§	240m		DME	TO3	CØ
84♦#	2SC1629	400m	50 Ø	§J	8.0	3.0	90	6.0	70	1.0m	4.0Ø	1.0	500	1.5kØ	10M§	330m	1.2u	DM	TO3	CØ
85♦#	2SC1768	400m	50 Ø	§J	5.0	1.0	200	6.0	150	1.0m	4.0Ø	1.0	400	3.0k	15M§			DM	TO3	CØ
86♦#	2SC1875	400m	50 Ø	§J	3.5		1.5k	6.0	500	20uØ	10Ø	2.0	5.0	25	16k#	4.0		D	TO3	CØ
87#	2SC1922	400m	50 Ø	§J	2.5		1.5k	6.0	800	10uØ						2.5	1.0u#☑	D	TO3	CØ
88#	2SC1942	400m	50 Ø	§J	3.0		1.5k	6.0	800	10uØ						2.0	1.0u#☑	D	TO3	CØ
89#	2SC2027	400m	50 Ø	§J	5.0		1.5k	7.0	800	10uØ						1.2	800n#☑	D	TO3	CØ
90#	2SD45	400m	50 Ø	§J	5.0	1.5	150	6.0	100	15mØ	10Ø	1.0	12	128	20M§	600m		ME	TO3	
91#	2SD46	400m	50 Ø	§J	5.0	1.5	150	6.0	75	15mØ	10Ø	1.0	12	184	20M§	600m		ME	TO3	
92#	2SD47	400m	50 Ø	§J	5.0	1.5	100	6.0	50	15mØ	10Ø	1.0	12	184	20M§	600m		ME	TO3	
93#	2SD51A	400m	50 Ø	§J	5.0	1.5	150	6.0	110	100uØ	3.0Ø	2.0	30	120	10M†	500m		ME	TO3	CØ
94#	2SD59	400m	50 Ø	§J	6.0		100	5.0	60	30uØ	4.0Ø	1.0	35	180	3.0M†			D	TO3	CØ
95#	2SD73	400m	60 Ø	§J	7.5	1.5	100	5.0	60	5.0m	10Ø	1.0	25	80 #		400m		EM	TO3	
96#	2SD74	400m	60 Ø	§J	7.5	1.5	150	5.0	90	5.0m	10Ø	1.0	25	80 #		400m		EM	TO3	
97#	2SD80†	400m	50 Ø	§J	6.0	3.0	30	10	20	200u	4.0Ø	1.0	40	60 Ø	1.5M†△	500m	1.2u	D	TO3	CØ
98#	2SD81†	400m	50 Ø	§J	6.0	3.0	60	10	40	50uØ	4.0Ø	1.0	40	60 Ø	1.5M†△	500m	1.2u	D	TO3	CØ
99#	2SD82†	400m	50 Ø	§J	6.0	3.0	100	10	60	30uØ	4.0	1.0	40	60 Ø	1.5M†△	500m	1.2u	D	TO3	CØ
100#	2SD83†	400m	50 Ø	§J	6.0	3.0	150	10	75	30uØ	4.0	1.0	40	60 Ø	1.5M†△	500m	1.2u	D	TO3	CØ
101#	2SD84†	400m	50 Ø	§J	6.0	3.0	200	10	85	30uØ	4.0	1.0	40	60 Ø	1.5M†△	500m	1.2u	D	TO3	CØ
102#	2SD124AH†	400m	60 Ø	§J	7.0	3.0	75	10	50	25uØ	4.0Ø	1.5	20	80	1.0M†	200m		D	F6h	CØ
103#	2SD126AH†	400m	60 Ø	§J	7.0	3.0	100	10	75	25uØ	4.0Ø	1.5	20	80	1.0M†	200m		D	F6h	CØ
104#	2SD126H†	400m	60 Ø	§J	7.0	3.0	150	5.0	100	25uØ	4.0Ø	1.5	20	40 Ø	1.0M†	1.0		D	F6h	CØ
105♦#	2SD200	400m	10 Ø♦	♦J	2.5	2.5	1.5k	5.0	1.5kØ	1.0m	5.0Ø	2.0	2.5 Ø				700n#	PL△	TO3	CØ
106#	2SD201†	400m	50 Ø	§S	6.0	3.0	90	7.0	60	50uØ	4.0Ø	3.0	20	40 Ø	8.0M†	500m	1.2u☑	D	TO3	CØ
107#	2SD202†	400m	50 Ø	§S	6.0	3.0	110	7.0	80	30uØ	4.0Ø	3.0	20	40 Ø	8.0M†	500m	1.2u☑	D	TO3	CØ
108#	2SD203†	400m	50 Ø	§S	6.0	3.0	130	7.0	100	30uØ	4.0Ø	3.0	20	40 Ø	8.0M†	500m	1.2u☑	D	TO3	CØ
109#	2SD517	400m	16 Ø	†J	5.0 #		1.5k	5.0	700	100u	5.0Ø	2.0	3.0	10			1.1u#	PL△	TO3	C
110▼#	2SD672	400m	40 Ø	§J	1.0		300	6.0	300 §	5.0m	5.0Ø	100m	60	330	20M§	6.2			TO3	C

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LCEADE
1	D100P	430m	75 Ø		8.0			4.0	50 Ø						1.0G					
2	DM100P	430m	75 Ø		8.0			4.0	50 Ø						1.0G					
3#	2SC2044*	433m	65 Ø	§J	6.0		55	3.5	35	1.2mØ	5.0Ø	5.0	50 Ø					PE	W81	V
4#	2SC1512*	434m	65 Ø	§J	5.0		50	4.0	25	3.0mØ	10Ø	700m	15	200 #				E	W55b	R
5▼#	2SD621	434m	50 Ø	§J	3.0		2.5k	6.0	900	50uØ	10Ø	1.5	5.0	25			1.0u#	D	T03	CØ
6	SD1088	434m	75 Ø	§J	5.0		36	4.0	16		5.0Ø	250m	20					PE	W55a	
7#	BD301	440m	55 Ø	§J	8.0		60	5.0	45	1.0mØ†	2.0Ø	3.0	30		3.0M§Δ	333m		E	Y220b	DØ
8#	BD303	440m	55 Ø	§J	8.0		60	5.0	60	1.0mØ†	2.0Ø	2.0	30	120 #	3.0M§Δ	333m		E	Y220b	DØ
9	NSP595	440m	55 Ø	§J	8.0	2.5	45	5.0	45	100u	2.0Ø	1.0	40		3.0MΔ			EM†	Y220b	D
10	NSP597	440m	55 Ø	§J	8.0	2.5	60	5.0	60	100u	2.0Ø	1.0	40		3.0MΔ			EM†	Y220b	D
11	NSP599	440m	55 Ø	§J	8.0	2.5	80	5.0	80	100u	2.0Ø	1.0	30		3.0MΔ			EM†	Y220b	D
12	2N2101	450m	75 Ø	§J	3.0	3.0 Ø	60	10	40	30uØ	15Ø	1.0	15	60		5.0			T10	AØ
13	2N2908	454m	45 Ø	§C	5.0	2.0	80	10	80 §		15Ø	1.0	12	20	1.0M	10			T053	
14♦#	2SC1111†	454m	50 Ø	§J	6.0	3.0	140	12	80	1.0	4.0Ø	3.0	30	150	10M§	500m	1.2u	D	T03	CØ
15♦#	2SC1112†	454m	50 Ø	§J	6.0	3.0	160	12	100	1.0	4.0Ø	3.0	30	150	10M§	500m	1.2u	D	T03	CØ
16♦#	2SC1454	454m	50 Ø	§J	4.0	1.0	300	6.0	250	1.0m	5.0Ø	1.0	20		10M§	2.5		D	T03	CØ
17♦#	2SC1618	454m	50 Ø	§J	6.0	3.0	80	6.0	60	1.0m	4.0Ø	3.0	20	180	10M§			DM	T03	CØ
18♦#	2SC1619	454m	50 Ø	§J	6.0	3.0	100	6.0	80	1.0m	4.0Ø	3.0	20	180	10M§			DM	T03	CØ
19▼#	2SC1619A	454m	50 Ø	§J	6.0	3.0	120	6.0	100	1.0m	4.0Ø	3.0	20		10M§	500m		ME	T03	CØ
20	C40-28	454m	80 Ø	§J	4.0			4.0	33						400M#				T91	R
21	PT6944†	454m	80 Ø	§A			120	8.0	70		5.0Ø	3.0	40	200	100M§	133m▼			T03	CØ
22	PT6945†	454m	80 Ø	§A			160	8.0	100		5.0Ø	3.0	40	200	100M§	166m▼			T03	CØ
23	PT6946†	454m	80 Ø	§A			200	8.0	140		5.0Ø	3.0	30	150	100M§	200m▼			T03	CØ
24	PT7912†	454m	80 Ø	§A			90	6.0	70		5.0Ø	3.0	200	400	100M§	133m▼			T03	CØ
25	PT7913†	454m	80 Ø	§A			90	6.0	70		5.0Ø	3.0	50	250	100M§	133m▼			T03	CØ
26	PT7914†	454m	80 Ø	§A			120	8.0	70		5.0Ø	3.0	30		100M§	166m▼			T03	CØ
27	PT7915†	454m	80 Ø	§A			120	6.0	100		5.0Ø	3.0	200	400	100M§	166m▼			T03	CØ
28	PT7916†	454m	80 Ø	§A			120	6.0	100		5.0Ø	3.0	50	250	100M§	166m▼			T03	CØ
29	PT7917†	454m	80 Ø	§A			160	8.0	100		5.0Ø	3.0	30		100M§	200m▼			T03	CØ
30	PT7918†	454m	80 Ø	§A			170	6.0	140		5.0Ø	3.0	100	300	100M§	200m▼			T03	CØ
31	PT7919†	454m	80 Ø	§A			170	6.0	140		5.0Ø	3.0	30	150	100M§	200m▼			T03	CØ
32	PT7920†	454m	80 Ø	§A			200	8.0	140		5.0Ø	3.0	20		100M§	233m▼			T03	CØ
33	PT7958†	454m	80 Ø	§A			225	6.0	200		5.0Ø	3.0	10		100M§	333m▼			T03	CØ
34	PT7959†	454m	80 Ø	§A			325	6.0	300		5.0Ø	3.0	10		100M§	333m▼			T03	CØ
35	2N6205	456m	80 Ø	§S	4.0		60 †	4.0†	33	20m§†									T91	R
36	2N5941	457m	80 Ø	§S	6.0		65	4.0	35	5.0m†§	5.0Ø	500m	10		50M§Δ				W52	R
37	MRF427A	457m	80 Ø	§S	6.0		110	4.0	65		5.0Ø	500m	15	90					T93d	R
38	2N5706	460m	80 Ø	§S	7.0		36	4.0	18	3.0mΔ	5.0Ø	100m	15						W51	R
39	MRF406	460m	80 Ø	§S	4.0		40 †	4.0†	20	5.0m§♦	5.0Ø	1.0	10	35 Ø					W52h	R
40▼	MRF325*	470m	82 Ø	§S	3.4		60 §	4.0§	33 §	3.0mØ	5.0Ø	1.5	20	80	400M#				W65c	S
41	2N1260	476m	85 Ø	§J	2.0	1.0	120	10	120 §	10m	15Ø	1.0	12	60	50kΔ	10			T053	
42#	2S012A	476m	4.0	§J	2.0	500m		12	70 §		15Ø	1.5	20	50	5.0M†	5.0	1.5u	D	F33	
43#	2S013A	476m	4.0	§J	1.5	500m		12	60		15Ø	1.5	15	50	5.0M†	10		D	F33	
44♦#	2SD380	476m	50	†J	5.0	3.5 #	1.5k	5.0	700	1.0m	10Ø	5.0	5.0	15		2.0	900n#	DM	T03	CØ
45#	2SC492	478m	50 Ø	§J	5.0		110	5.0	110	10mØ	5.0Ø	1.0 Δ	60 †		20M§			ME	T03	
46#	2SC793	480m	60 Ø	§J	7.0	7.0 Ø	100	5.0	80	100uØ	5.0Ø	1.0	30	200	9.0M§	460m		DM	T03	CØ
47#	2SD180	480m	60 Ø	§J	6.0	2.0	80	7.0	70	100uØ	2.0Ø	3.0	30	120 #	10M§	300m		EM	T03	CØ
48#	2SD188	480m	60 Ø	§J	7.0	2.0	100	7.0	80	100uØ	2.0Ø	3.0	30	120 #	10M§	300m		EM	T03	CØ
49▼#	2SD188S	480m	60 Ø	§J	5.0		100	7.0	70	2.0mØ	2.0Ø	3.0	30 *	120 *		600m		ME	T03	CØ
50#	2SD218S	480m	60 Ø	§J	7.0	2.0	250	10	120	500uØ	5.0Ø	4.0	30 *	120 #	6.0M§Δ	214m#		EMΔ	T03	CØ
51#	2SD321	480m	60	J§	15 #		250	6.0	250 Ø	200u	5.0Ø	5.0	25	100			1.0u#	D	T03	CØ
52♦#	2SD586	480m	60 Ø	§J	5.0	1.0	100	5.0	80	10uØ	5.0Ø	1.0	40 *	200 *	19M§	666m#		PEΔ	B29	DØ
53▼#	2SD597	480m	60 Ø	§J	7.0		100	5.0	100	1.0mØ	5.0Ø	1.0	40	200	7.0M§	500m			T03	C
54▼#	2SD673	480m	60 Ø	§J	7.0	2.0	120	5.0	100	1.0mØ	5.0Ø	1.0	35 *	200 *				D	T03	CØ
55#	BD201	480m	60 Ø	§J	8.0		60	5.0	45	1.0mØ†	2.0Ø	3.0	30 #		25kΔ	333m#		E†	B27	BØ
56#	BD203	480m	60 Ø	§J	8.0		60	5.0	60	1.0mØ†	2.0Ø	2.0	30 #		25kΔ	333m#		E†	B27	BØ
57#	BD291	480m	60 Ø	§J	6.0	2.5	45	5.0	45	1.0mØ†	2.0Ø	1.0	30		3.0M§Δ	330m		E	B13	D
58#	BD293	480m	60 Ø	§J	6.0	2.5	60	5.0	60	1.0mØ†	2.0Ø	1.0	30		3.0M§Δ	330m		E	B13	D
59#	BDX77	480m	60 Ø	§J	8.0		80	5.0	80	1.0mØ†	2.0Ø	2.0	30		25kΔ	333m#		E†	Y220b	D
60#	BU406	480m	60 Ø	§J	7.0	4.0	400	6.0	150		1.0	5.0	10		10M§	200m#	750n†☑	PEΔ	Y220b	DØ
61#	BU406D	480m	60 Ø	§J	7.0	4.0	400	6.0	400	15mØ#	1.2Ø	5.0	10		10M§		750n†☑	PEΔ	Y220b	DØ
62#	BU407	480m	60 Ø	§J	7.0	4.0	330	6.0	150		1.0	5.0	10		10M§	200m#	750n†☑	PEΔ	Y220b	DØ
63#	BU407D	480m	60 Ø	§J	7.0	4.0	330	6.0	330	15mØ#	1.2Ø	5.0	10		10M§		750n†☑	PEΔ	Y220b	DØ
64#	BU408	480m	60 Ø	§J	7.0	4.0	400	6.0		15mØ#	1.0Ø	6.0	5.0		10M§	200m#	750n†☑	PEΔ	Y220b	DØ
65▼#	BU408D	480m	60 Ø	§J	7.0	4.0	400	6.0		15mØ#	1.0Ø	6.0	5.0		10M§	200m#	750n†☑	PEΔ	Y220b	DØ
66	IR660	480m	60 Ø	§J	3.5	2.0	200	5.0	200	250uΔ	5.0Ø	1.0	30	90	2.5M§	800m	250n	D	T066	
67	IR663	480m	60 Ø	§J	3.5	2.0	400	5.0	400	250uΔ	5.0Ø	1.0	30	90	2.5M§	800m	250n	D	T066	
68	IR665	480m	60 Ø	§J	3.5	2.0	700	5.0	500	250uΔ	5.0Ø	1.0	30	90	2.5M§	800m	250n	D	T066	
69	MJE521K	480m	60 Ø	§J	4.0	2.0	40	4.0	40	100u♦	1.0Ø	1.0	40 #						B23	D
70	NSP5190	480m	60 Ø	§J	4.0	1.0	40	5.0	40	100u	2.0Ø	1.5	25	100	2.0MΔ			EM†	Y220b	D
71	NSP5191	480m	60 Ø	§J	4.0	1.0	60	5.0	60	100u	2.0Ø	1.5	25	100	2.0MΔ			EM†	Y220b	D
72	NSP5192	480m	60 Ø	§J	4.0	1.0	80	5.0	80	100u	2.0Ø	1.5	25	100	2.0MΔ			EM†	Y220b	D
73	2N389	485m	85 Ø	§J				10	60 §	10mØ*	15Ø	1.0	12	60	8.5M§	5.0		D	T053	AØ
74	2N389A	485m		§J	3.0	300m		10	60	10m†*	4.0Ø	1.0	12	60	1.0M§Δ	750m			T053	AØ
75	2N424	485m	85 Ø	§J				10	80 §	10mØ*	15Ø	1.0	12	60	6.0M§	10		D	T053	AØ
76	2N424A	485m		§J	3.0	300m		10	80	10m†*	4.0Ø	1.0	12	60	1.0M§Δ	750m			T053	AØ
77	2N1208	485m	85 Ø	§S	5.0		60	10	60	10m	12Ø	2.0	15			2.5			T061	A
78	2N1209	485m	3.5	§S	5.0		45	5.0	45	20m	12Ø	2.0 Ø	20	80	3.0M§Δ	2.5			T061	AØ
79	2N1212	485m	3.5	§S	5.0		60	10	60	10m*	15Ø	1.0 Ø	12	36	3.0M§Δ	5.0			T061	AØ
80	2N1235	485m	85 Ø	§J	2.0	1.0	120	10	120 §	10m			12 #	60 Ø	50k				T053	Ø
81	2N1250	485m	85 Ø	§S	5.0		60	10	60	10m	12Ø	2.0	15			2.5			F32	A
82	2N2032	485m	85 Ø	§S	5.0		45	5.0	45	20m	12Ø	2.0	20		3.0M§Δ	2.5			F32	AØ
83	2N6200	485m	85 Ø	§S	8.5		60 †	4.0†	35	20m§†									T91	R
84	2S721	485m	85 Ø	§C	2.0		60	10	60 §		15Ø	1.0	20	60	3.0M§	5.0		D	F33	
85	2S722	485m	85 Ø	§C	2.0		100	10	100 §		15Ø	1.0	20	60	3.0M§	5.0		D	F33	
86	2S723	485m	85 Ø	§C	2.0		60	10	60 §		15Ø	1.0	40	120	3.0M§	3.0		D	F33	
87	2S724	485m	85 Ø	§C	2.0		100	10	100 §		15Ø	1.0	40	120	3.0M§	3.0		D	F33	
88#	BU134	485m	85 Ø	§J	4.0	1.0	500	8.0	350	1.0mØ	5.0Ø	1.0	30	120 #	10M§Δ	333m#	1.0u#☑	DMΔ	T03	CØ
89	MRF825	485m	85 Ø	§S	6.0		36 †	4.0†	16	20mØ♦	5.0Ø	4.0	10	150					W30	S
90	JAN2N389	500m	85 Ø	§S			60	10	60	10m*	15Ø	1.0	15	60 #		5.0			T053	A
91	JAN2N424	500m	85 Ø	§S			80	10	80	10m*Ø	15Ø	1.0	15	60 #		10			T053	A
92	2N2033†	500m§	5.0 Ø	§C	3.0	1.0	80	10	60	150u♦	4.0Ø	500m	20	60	1.0M§Δ	800m	1.0uØ☑		T05	AØ
93	2N2034†	500m§	5.0 Ø	§C	3.0	1.0	80	10	60	150u♦	4.0Ø	1.0	20	60	1.0M§Δ	300m	1.0uØ☑		T05	AØ
94	2N2383	500m	85 Ø	§S	2.0		80	8.0	60	1.0m	4.0Ø	1.5	20	60	3.0M§	670m	900n	D	F33	
95	2N2384	500m	85 Ø	§S	5.0		80	8.0	60 §	1.0m	4.0Ø	1.5	20	60	3.0M§	670m	900n	D	T10	
96♦	JAN2N2812†	500m§	4.0	§C	10	2.0	80	8.0	60	100n	5.0Ø	5.0	40	120 #	15M§Δ		350nØ		T061	AØ
97♦	JAN2N2814†	500m§	4.0	§C	10	2.0	120	8.0	80	100n	5.0Ø	5.0	40	120 #	15M§Δ		350nØ		T061	AØ
98	2N4301	500m§	50 Ø	§J	10	4.0	100	8.0	80	10u§	4.0Ø	5.0	30	120 #	40M§Δ				T061	AØ
99	2N4395†	500m	62 Ø	§J	5.0	900m	60	4.0	40	100u	1.0Ø	2.0	50	170	4.0M§Δ	180m			T03	CØ
100	2N4396†	500m	62 Ø	§J	5.0	900m	80	4.0	60	100u	1.0Ø	2.0	40	170	4.0M§Δ	180m			T03	CØ
101	2N4913	500m	88 Ø	§J	5.0	1.0	40	5.0	40	10u#	2.0Ø	2.5	25	100 #	4.0M§Δ				T03	CØ
102	2N4914	500m	88 Ø	§J	5.0	1.0	60	5.0	60	10u#	2.0Ø	2.5	25	100 #	4.0M§Δ				T03	CØ
103	2N4915	500m	88 Ø	§J	5.0	1.0	80	5.0	80	10u#	2.0Ø	2.5	25	100 #	4.0M§Δ				T03	CØ
104	2N5067	500m	88 Ø	§J	5.0	1.0	40	5.0	40	1.0m#	2.0Ø	1.0	20	80 #	4.0M§Δ				T03	CØ
105	2N5068	500m	88 Ø	§J	5.0	1.0	60	5.0	60	1.0m#	2.0Ø	1.0	20	80 #	4.0M§Δ				T03	CØ
106	2N5069	500m	88 Ø	§J	5.0	1.0	80	5.0	80	1.0m#	2.0Ø	1.0	20	80 #	4.0M§Δ				T03	CØ
107	2N5218†	500m§	50 Ø	§C	10	1.0	220	8.0	200	500nØ	5.0Ø	5.0	15	120 #	40M§Δ		600n		T061	AØ
108	2N5264†	500m	87 Ø	§J	10	2.0	400	5.0	180	1.0m#	2.5Ø	1.0	30	300 #	50M§Δ	178m	1.0u		T03	CØ
109	2N5313†	500m§	50 Ø	§J	10	2.5	80	6.0	80	10u#	5.0Ø	10	30	90 #	30M§Δ		500n		T061	AØ
110	2N5315†	500m§	50 Ø	§J	10	2.5	100	6.0	100	10u#	5.0Ø	10	30	90 #	30M§Δ		500n		T061	AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG
1	SDT7015	500m§	50 Ø	§J	10	2.0	80	5.0	60	1.0uØ	5.0Ø	5.0	40	120 #	15M§△			PL	TO61	Ø
2	SDT7016	500m§	50 Ø	§J	10	2.0	100	5.0	80	1.0uØ	5.0Ø	5.0	40	120 #	15M§△			PL	TO61	Ø
3	SDT7017	500m§	50 Ø	§J	10	2.0	60	5.0	40	1.0uØ	5.0Ø	5.0	100 #		15M§△			PL	TO61	Ø
4	SDT7018	500m§	50 Ø	§J	10	2.0	80	5.0	60	1.0uØ	5.0Ø	5.0	100 #		15M§△			PL	TO61	Ø
5	SDT7019	500m§	50 Ø	§J	10	2.0	100	5.0	80	1.0uØ	5.0Ø	5.0	100 #		15M§△			PL	TO61	Ø
6	SDT7140	500m	87		10	2.0	120	8.0	100	100n	5.0	5.0	40	120	50M			PL	TO61	
7	SDT7141	500m	87		10	2.0	200	8.0	150	100n	5.0	5.0	40	120	50M			PL	TO61	
8	SDT7150	500m	87		10	2.0	140	8.0	120	500n	5.0	5.0	20	60	50M			PL	TO61	
9	SDT7151	500m	87		10	2.0	170	8.0	150	500n	5.0	5.0	20	60	50M			PL	TO61	
10	SDT7152	500m	87		10	2.0	220	8.0	200	500n	5.0	5.0	20	60	50M			PL	TO61	
11	SDT7154	500m	87		10	2.0	140	8.0	120	500n	5.0	5.0	40	120	50M			PL	TO61	
12	SDT7155	500m	87		10	2.0	170	8.0	150	500n	5.0	5.0	40	120	50M			PL	TO61	
13	SDT7156	500m	87		10	2.0	220	8.0	200	500n	5.0	5.0	40	120	50M			PL	TO61	
14	SDT7801	500m	50 Ø	$	10	5.0	225	7.0	200	1.0uØ	5.0	5.0	20	60	30M§△	100m		PL	TO61	
15	SDT7802	500m	50 Ø	$	10	5.0	250	7.0	225	1.0uØ	5.0	5.0	20	60	30M§△	100m		PL	TO61	
16	SDT7803	500m	50 Ø	$	10	5.0	275	7.0	250	1.0uØ	5.0	5.0	20	60	30M§△	100m		PL	TO61	
17	SDT7804	500m	50 Ø	$	10	5.0	325	7.0	300	1.0uØ	5.0	5.0	20	60	30M§△	100m		PL	TO61	
18	SDT7805	500m	50 Ø	$	10	5.0	350	7.0	325	1.0uØ	5.0	5.0	20	60	30M§△	100m		PL	TO61	
19	SDT7806	500m§	50 Ø	§J	10		150	5.0	150	10uØ	5.0Ø	5.0	10 #					PL	T50a	A
20	SDT7807	500m§	50 Ø	§J	10		200	5.0	200	10uØ	5.0Ø	5.0	15 #					PL	T50a	A
21	SDT7808	500m§	50 Ø	§J	10		250	5.0	250	10uØ	5.0Ø	5.0	15 #					PL	T50a	A
22	SDT7809	500m§	50 Ø	§J	10		300	5.0	300	10uØ	5.0Ø	5.0	15 #					PL	T50a	A
23	SDT9301	500m	87		7.5		40	6.0	40	5.0m	4.0Ø	1.0	15		1M	1.0		DPL	TO3	CØ
24	SDT9302	500m	87		7.5		60	6.0	60	5.0m	4.0Ø	1.0	15		1M	1.0		DPL	TO3	CØ
25	SDT9303	500m	87		7.5		80	6.0	80	5.0m	4.0Ø	1.0	15		1M	1.0		DPL	TO3	CØ
26	SDT9304	500m	87		7.5		40	6.0	40	5.0m	4.0Ø	2.0	15		1M	500m		DPL	TO3	CØ
27	SDT9305	500m	87		7.5		60	6.0	60	5.0m	4.0Ø	2.0	15		1M	500m		DPL	TO3	CØ
28	SDT9306	500m	87		7.5		80	6.0	80	5.0m	4.0Ø	2.0	15		1M	500m		DPL	TO3	CØ
29	SDT9307	500m	87		7.5		40	6.0	40	5.0m	4.0Ø	3.0	15		1M	330m		DPL	TO3	CØ
30	SDT9308	500m	87		7.5		60	6.0	60	5.0m	4.0Ø	3.0	15		1M	330m		DPL	TO3	CØ
31	SDT9309	500m	87		7.5		80	6.0	80	5.0m	4.0Ø	3.0	15		1.0M	330m		DPL	TO3	CØ
32	SPT4624†	500m	87 Ø	§J	10	2.0	400	7.0	350	1.0m#	5.0Ø	2.0	30	100 #	50M§△	214m#	500nØ		TO3	CØ
33	SPT4625†	500m	87 Ø	§J	10	2.0	450	7.0	400	1.0m#	5.0Ø	2.0	30	100 #	50M§△	214m#	500nØ		TO3	CØ
34	SSP3200†	500m§	50 Ø§	§J	20 #			7.0	80	200n§	5.0Ø	5.0	45	150	30M§△	100m	150nØØ	PL	TO61	Ø
35	SSP3201†	500m§	50 Ø§	§J	20 #			7.0	80	200n§	5.0Ø	5.0	45	150	30M§△	100m	150nØØ	PL	TO61	
36	ST86020	500m	50 Ø	§J	5.0		125	10	80	100u	10	3.0	20	120	10M	400m	2.0u	P	TO61	
37	ST86021	500m	50 Ø	§J	5.0		145	10	100	100u	10	3.0	20	120	10M	400m	2.0u	P	TO61	
38	ST86022	500m	50 Ø	§J	5.0		170	10	120	100u	10	3.0	20	120	10M	400m	2.0u	P	TO61	
39	UPT531†	500m	50 Ø§	§J	5.0	2.0	200	5.0	150 *	10u*	5.0Ø	1.0	25 #		30M§	333m#	200nØ	PL	TO3	CØ
40	UPT532†	500m	50 Ø§	§J	5.0	2.0	250	5.0	200 *	10u*	5.0Ø	1.0	25 #		30M§	333m#	200nØ	PL	TO3	CØ
41	UPT533†	500m	50 Ø§	§J	5.0	2.0	300	5.0	250 *	10u*	5.0Ø	1.0	25 #		30M§	333m#	200nØ	PL	TO3	CØ
42	UPT534†	500m	50 Ø§	§J	5.0	2.0	350	5.0	300 *	10u*	5.0Ø	1.0	25 #		30M§	333m#	200nØ	PL	TO3	CØ
43	UPT535†	500m	50 Ø§	§J	5 0	2.0	400	5.0	300 *	10u*	5.0Ø	1.0	25 #		30M§	333m#	200nØ	PL	TO3	CØ
44	UPT731†	500m	50 Ø§	§J	10	3.0	200	5.0	150 *	10u*	5.0Ø	1.0	25 #		30M§	200m#	250nØ	PL	TO3	CØ
45	UPT732†	500m	50 Ø§	§J	10	3.0	250	5.0	200 *	10u*	5.0Ø	1.0	25 #		30M§	200m#	250nØ	PL	TO3	CØ
46	UPT733†	500m	50 Ø§	§J	10	3.0	300	5.0	250 *	10u*	5.0Ø	1.0	25 #		30M§	200m#	250nØ	PL	TO3	CØ
47	UPT734†	500m	50 Ø§	§J	10	3.0	350	5.0	300 *	10u*	5.0Ø	1.0	25 #		30M§	200m#	250nØ	PL	TO3	CØ
48	UPT735†	500m	50 Ø§	§J	10	3.0	400	5.0	300 *	10u*	5.0Ø	1.0	25 #		30M§	200m#	250nØ	PL	TO3	CØ
49	UPT831†	500m	50 Ø§	§J	10	5.0	60	5.0	40 *	10u*	5.0Ø	5.0	30 #		60M§	100m#	250nØ	PL	TO3	CØ
50	UPT832†	500m	50 Ø§	§J	10	5.0	80	5.0	60 *	10u*	5.0Ø	5.0	30 #		60M§	100m#	250nØ	PL	TO3	CØ
51	UPT833†	500m	50 Ø§	§J	10	5.0	100	5.0	80 *	10u*	5.0Ø	5.0	30 #		60M§	100m#	250nØ	PL	TO3	CØ
52	UPT834†	500m	50 Ø§	§J	10	5.0	120	5.0	100 *	10u*	5.0Ø	5.0	30 #		60M§	150m#	250nØ	PL	TO3	CØ
53	UPT835†	500m	50 Ø§	§J	10	5.0	150	5.0	100 *	10u*	5.0Ø	5.0	30 #		60M§	150m#	250nØ	PL	TO3	CØ
54	CD1979*	512m	90 Ø	§J	5.0 †			4.0†	60 Ø										T91	R
55	2N6315†	515m	90 Ø	§J	7.0	2.0	60 †	5.0†	60	250u#♦	4.0Ø	2.5	20	100 #	4.0M§△		700nØ		TO66	CØ
56	2N6316†	515m	90 Ø	§J	7.0	2.0	80 †	5.0†	80	250u#♦	4.0Ø	2.5	20	100 #	4.0M§△		700nØ		TO66	CØ
57#	BDX91†	515m	90 Ø	§J	8.0		60	5.0	60	100u	2.0Ø	3.0	20 #		4.0M§△	266m	1.0uØØ	E	TO3	CØ
58#	BDX93†	515m	90 Ø	§J	8.0		80	5.0	80	100u	2.0Ø	3.0	20 #		4.0M§△	266m	1.0uØØ	E	TO3	CØ
59#	BDX95†	515m	90 Ø	§J	8.0		100	5.0	100	100u	2.0Ø	3.0	20 #		4.0M§△	266m	1.0uØØ	E	TO3	CØ
60	2N6082	520m§	50 Ø	§S	4.0		36	4.0	18	1.0mØ	5.0Ø	1.0	5.0						T72h	R
61	2N6083	520m§	65 Ø	§S	4.0		36	4.0	18	1.0mØ	5.0Ø	1.0	5.0						T72h	R
62#	BD243†	520m	65 Ø	§J	6.0	3.0		5.0	45 Ø	400u§	4.0Ø	300m	30		3.0M§△	250m	300nØ	D	B1	D
63#	BD243A†	520m	65 Ø	§J	6.0	3.0		5.0	60 Ø	400u§	4.0Ø	300m	30		3.0M§△	250m	300nØ	D	B1	D
64#	BD243B†	520m	65 Ø	§J	6.0	3.0		5.0	80 Ø	400u§	4.0Ø	300m	30		3.0M§△	250m	300nØ	D	B1	D
65#	BD243C†	520m	65 Ø	§J	6.0	3.0		5.0	100 Ø	400u§	4.0Ø	300m	30		3.0M§△	250m	300nØ	D	B1	D
66	MRF222	520mØ	65 Ø	§S	4.0		36	4.0	18	1.0mØ♦	5.0Ø	1.0	5.0						W52h	R
67	MRF223	520mØ	65 Ø	§S	4.0		36	4.0	18	1.0mØ♦	5.0Ø	1.0	5.0						W52h	R
68	RCA41†	520m	2.0	§J	7.0	3.0	40	5.0	40	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		600nØ	Et	Y220b	X
69	RCA41A†	520m	2.0	§J	7.0	3.0	60	5.0	60	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		600nØ	Et	Y220b	X
70	RCA41B†	520m	2.0	§J	7.0	3.0	80	5.0	80	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		600nØ	Et	Y220b	X
71	RCA41C†	520m	2.0	§J	7.0	3.0	100	5.0	100	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		600nØ	Et	Y220b	X
72	TIP41†	520m	2.0	§J	6.0 †	3.0	40 †	5.0†	40	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		600nØ	DM	B1	BØ
73▼	TIP41Ø†	520m	2.0	§J	7.0	3.0	40	5.0	40	400u§	4.0Ø	3.0	15	150 #	3.0M§△	333m#	600nØ	Et	Y220b	XØ
74	TIP41A†	520m	2.0	§J	6.0 †	3.0	60 †	5.0†	60	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		600nØ	DM	B1	BØ
75▼	TIP41AØ†	520m	2.0	§J	7.0	3.0	60	5.0	60	400u§	4.0Ø	3.0	15	150 #	3.0M§△	333m#	600nØ	Et	Y220b	XØ
76	TIP41B†	520m	2.0	§J	6.0 †	3.0	80 †	5.0†	80	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		600nØ	DM	B1	BØ
77▼	TIP41BØ†	520m	2.0	§J	7.0	3.0	80	5.0	80	400u§	4.0Ø	3.0	15	150 #	3.0M§△	333m#	600nØ	Et	Y220b	XØ
78	TIP41C†	520m	2.0	§J	6.0 †	3.0	100 †	5.0†	100	700u△♦	4.0Ø	3.0	15	75 #	3.0M§△		600nØ	DM	B1	BØ
79▼	TIP41CØ†	520m	2.0	§J	7.0	3.0	100	5.0	100	400u§	4.0Ø	3.0	15	150 #	3.0M§△	333m#	600nØ	Et	Y220b	XØ
80▼#	2SC1051L	521m	60 Ø	§J	7.0		100	6.0	80	1.0mØ	5.0Ø	1.0	40	320	8.0M§			D	TO3	CØ
81	BD195	522m	65 Ø	§J	6.0	2.5	40	5.0	30	100u♦	2.0Ø	1.0	30 #		2.0M§△	333m#		†	B16g	B
82	BD197	522m	65 Ø	§J	6.0	2.5	55	5.0	45	100u♦	2.0Ø	1.0	30 #		2.0M§△	333m#		†	B16g	B
83	BD199	522m	65 Ø	§J	6.0	2.5	70	5.0	60	100u♦	2.0Ø	1.0	30 #		2.0M§△	333m#		†	B16g	B
84	BD595Ø	522m	65 Ø	§J	8.0	3.0	45	5.0	45	100u♦	2.0Ø	1.0	40 #		3.0M§△	333m#		†	B16h	D
85	BD597Ø	522m	65 Ø	§J	8.0	3.0	60	5.0	60	100u♦	2.0Ø	1.0	40 #		3.0M§△	333m#		†	B16h	D
86	BD599Ø	522m	65 Ø	§J	8.0	3.0	80	5.0	80	100u♦	2.0Ø	1.0	30 #		3.0M§△	333m#		†	B16h	D
87	BD601	522m	65 Ø	§J	8.0	3.0	100	5.0	100	100u♦	2.0Ø	1.0	30 #		3.0M§△	333m#		†	B16h	D
88	MJE205	522m	65 ØΔ	§J	5.0	2.5	50	4.0	50	100u♦	2.0Ø	2.0	25	100					B16d	B
89	MJE205K	522m	65 ØΔ	§J	5.0	2.5	50	4.0	50	100u♦	2.0Ø	2.0	25	100					B23	D
90	2N3551†	530m§	1.2	§J	12	5.0	115 †	7.0†	60		2.0Ø	10	20	90 #	40M§△		300nØØ		W39a	A
91	2N3552†	530m§	1.2	§J	12	5.0	140 †	7.0†	80		2.0Ø	10	20	90 #	40M§△		300nØØ		W39a	A
92#	2SC1298	532mØ	80 Ø	§J	5.0		50	4.0	25	2.0mØ	10Ø	3.0	15 #		120M§△			PE	T87	S
93	2N5862	533m#	80 Ø	§S	8.0		65 †	4.0†	35	2.0mØ♦	5.0Ø	3.0	5.0						T75b	R
94#	2SC2039	533m	80 Ø	§J	8.0		70	4.0	38	1.0mØ	28Ø	1.0	20 #	180 #	200M§			PE		
95#	2SD52	533m	80 Ø	§J	6.0		100	10	55	10uØ	4.0Ø	3.0	10	40	1.0M†	500m		D	TO3	CØ
96	MM1553	533m	80 Ø#	§J	8.0		100	4.0	70	2.0mØ	5.0Ø	2.0	15						T80	CØ
97	TIP65	533m	40 Ø	§J	1.5	1.0		5.0	600		10Ø	1.0	8.0 Ø			5.0	700n#		B3	BØ
98	TIP66	533m	40 Ø	§J	1.5	1.0		5.0	600		10Ø	1.0	8.0 Ø			5.0	700n#		B3	BØ
99	PT6907	555m	75	§	30	10	100	6.0	75	5.0m	3.0Ø	15	30	150	150M	80m		PL	TO63	A
100#	2SD587	560m	70 Ø	§J	6.0		120	5.0	100	50uØ	5.0Ø	1.0	40 *	200 #	10M§	500m#		DM	B33	XØ
101#	BD543	560m	70 Ø	§J	8.0 †	3.0	40	5.0	40	400u§	4.0Ø	3.0	40		3.0M§△	250m	300nØ	E	B1	BØ
102#	BD543A	560m	70 Ø	§J	8.0 †	3.0	60	5.0	60	400u§	4.0Ø	3.0	40		3.0M§△	250m	300nØ	E	B1	BØ
103#	BD543B	560m	70 Ø	§J	8.0 †	3.0	80	5.0	80	400u§	4.0Ø	3.0	40		3.0M§△	250m	300nØ	E	B1	BØ
104#	BD543C	560m	70 Ø	§J	8.0 †	3.0	100	5.0	100	400u§	4.0Ø	3.0	40		3.0M§△	250m	300nØ	E	B1	BØ
105#	BD543D	560m	70 Ø	§J	8.0 †	3.0	120	5.0	120	400u§	4.0Ø	3.0	40		3.0M§△	250m	300nØ	E	B1	BØ
106#	BUY20†	566m	85 Ø	§J	10	3.0	200	8.0	200	100uØ	5.0Ø	3.0	20	300 #	25M§		1.0uØ		TO3	CØ
107#	BUY21†	566m	85 Ø	§J	10	3.0	300	8.0	300	100uØ	5.0Ø	3.0	20	300 #	25M§		1.0uØ		TO3	CØ
108#	BUY22†	566m	85 Ø	§J	10	3.0	450	8.0	450	100uØ	5.0Ø	3.0	20	300 #	25M§		1.0uØ	△	TO3	CØ
109#	BUY21A	568m	85 Ø	§J	10	3.0	400	8.0	230	100u	5.0Ø	3.0	20	300	15M§		3.0u§Ø	DM	TO3	
110	2N5239	570m	100	§J	5.0	2.0	300	6.0	225 Ø	4.0m#	10Ø	2.0	20	80	5.0M§△	1.1			TO3	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1#	BU209†	625m△	12 Ø	♦J	4.0	100m		5.0§	800	1.0m§	5.0Ø	3.0	2.2		7.0M§	1.6	10u§		TO3	CØ
2♦#	BU209A	625m	12 Ø§	♦J	6.0 #	4.0 #			800	1.0m§♦	5.0Ø	3.0	2.2		7.0M§	1.6	700n#		TO3	CØ
3	C50-28	625m	110 Ø	§J	6.0			4.0	33						400M#				T91	R
4	D56W1	625m	78	§J	5.0	2.0			1.4kØ	10u	5.0Ø	2.5	3.0			2.0	600n#	ME	TO3	C
5	D56W2	625m	78	§J	5.0	2.0			1.4kØ	10u	5.0Ø	3.5	3.0			1.4	600n#	ME	TO3	C
6	MJ3480	625m	56 Ø	♦J	5.0	4.0	1.3k	7.0	700	1.0m§♦					7.5M§	1.1	1.0u#	D	TO3	CØ
7	2N6362	630m	110 Ø	§S	6.0		60 †	4.0†	22	10m§†									W55	R
8#	2SC1106	630mØ	80 Ø	§J	2.0		350	5.0	250	1.0mØ	15Ø	500m	40	200				ME	TO3	CØ
9	MJ3760	638m	80 Ø	§J	6.0	4.0	750	7.0	300						7.5M§	833m	700m#☑	D△	F11b	CØ
10	MJ3761	638m	80 Ø	§J	8.0	4.0	750	7.0	300						7.5M§	625m	900m#☑	D△	F11b	CØ
11	2N6084	640m§	80 Ø	§S	6.0		36	4.0	18	2.5mØ	5.0Ø	1.0	5.0						T72h	R
12	2N6497†	640m	80 Ø	§J	5.0	2.0	350 †	6.0†	250	1.0m♦#	10Ø	2.5	10	75 #	5.0M§△	1.0 #	800n☑		B23a	D§
13	2N6498†	640m	80 Ø	§J	5.0	2.0	400 †	6.0†	300	1.0m♦#	10Ø	2.5	10	75 #	5.0M§△	1.0 #	800n☑		B23a	D§
14	2N6499†	640m	80 Ø	§J	5.0	2.0	450 †	6.0†	350	1.0m♦#	10Ø	2.5	10	75 #	5.0M§△	1.0 #	800n☑		B23a	D§
15#	2SC898	640m	80 Ø	§J	7.0	2.0	150	5.0	110	1.0m	5.0Ø	1.0	25	200	15M§	360m		D	F6h	CØ
16#	2SC1325	640m	80 Ø	§	6.0		1.5k	6.0	600	20uØ	15Ø	1.0	5.0	60 #			1.0u#	ME	TO3	CØ
17#	2SC1325A	640m	80 Ø	§	6.0		1.5k	6.0	600	20uØ	15Ø	5.0	5.0	35			800n#	ME	TO3	CØ
18#	2SC1866†	640m	80 Ø	§J	7.0	2.0	150	7.0	100	100uØ	5.0Ø	5.0	15 #			200m#	1.0u#☑	EM	TO3	CØ
19#	2SC1867†	640m	80 Ø	§J	7.0	2.0	300	7.0	250	100uØ	5.0Ø	5.0	15 #			200m#	1.0u#☑	EM	TO3	CØ
20#	2SC1868†	640m	80 Ø	§J	7.0	2.0	450	7.0	400	100uØ	5.0Ø	5.0	10 #			200m#	1.0u#☑	DM	TO3	CØ
21#	2SD323	640mØ	80 Ø	§J	7.0		150	7.0	100	300uØ	5.0Ø	4.0	30	120 #				DM	TO3	CØ
22#	2SD351	640m	80	J§	7.0 #		650	6.0	270	5.0m	5.0Ø	5.0	6.5	30				D	TO3	CØ
23#	2SD388	640m	80 Ø	§J	12 #		150	7.0	100	100uØ	5.0Ø	1.0	40	200 #	9.0M§		400n#	ME△	TO3	CØ
24#	2SD418	640m	80	§J	10 #		1.0k	5.0	500	1.0m	5.0	5.0	6.5	30			1.5u	DM	TO3	CØ
25♦#	2SD456	640m	80	§J	5.0	2.0	600	5.0	400	1.0m*	5.0Ø	5.0	6.5	50		300m		DM	TO3	C
26#	2SD461	640m	80 Ø	§J	3.0		250	8.0	250	100u	5.0Ø	1.0	40	170	1.0M§	166m		D	TO3	CØ
27#	2SD588	640m	80 Ø	§J	7.0		150	5.0	120	50uØ	5.0Ø	1.0	40 *	200 #	6.0M§	400m		DM	B33	XØ
28▼#	2SD598	640m	80 Ø	§J	8.0		120	5.0	120	1.0mØ	5.0Ø	1.0	40	200	6.0M§	250m			TO3	C
29▼#	2SD632	640m	80 Ø	§J	4.0		350	5.0	300	1.0mØ	15Ø	500m	50	250		1.5			TO3	C
30▼#	2SD674	640m	80 Ø	§J	7.0	2.0	120	5.0	120	1.0mØ	5.0Ø	1.0	35 *	200 *				D	TO3	CØ
31	HEPS3009-RT	640m§	80 Ø	§S	6.0		36	4.0	18	2.5mØ♦	5.0Ø	1.0	10		150M				T93a	R
32#	MD33	640m	80 Ø	§J	10		40	5.0	40	400u§	4.0Ø	3.0	20		3.0M§△	400m		ME	B19	B
33#	MD33A	640m	80 Ø	§J	10		60	5.0	60	400u§	4.0Ø	3.0	20		3.0M§△	400m		ME	B19	B
34	MJ3026	640m	80 Ø	§J	2.0	1.0		5.0	275	200u*	5.0Ø	250m	25						TO3	CØ
35	MJ3027	640m	80 Ø	§J	2.0	1.0		5.0	300	200u*	5.0Ø	250m	25						TO3	CØ
36	MJ3260	640m	80 Ø	§J	6.0	2.5	700	5.0	250	1.0m§					7.5M§	1.0	1.0u#	△	TO3	CØ
37	MJE33†	640m	80 Ø	§J	10	3.0	40	5.0	40	700u△♦	4.0Ø	3.0	20		2.0M§△	400m	500nØ		B16h	D
38	MJE33A†	640m	80 Ø	§J	10	3.0	60	5.0	60	700u△♦	4.0Ø	3.0	20		2.0M§△	400m	500nØ		B16h	D
39	MJE33B†	640m	80 Ø	§J	10	3.0	80	5.0	80	700u△♦	4.0Ø	3.0	20		2.0M§△	400m	500nØ		B16h	D
40	MJE33C†	640m	80 Ø	§J	10	3.0	100	5.0	100	700u△♦	4.0Ø	3.0	20		2.0M§△	400m	500nØ		B16h	D
41	MJE51†	640m	80 Ø	§J	5.0	2.0	350	6.0	250	1.0 △♦	10Ø	300m	30		2.5M§△	400m	500nØ		B16h	D
42	MJE52†	640m	80 Ø	§J	5.0	2.0	400	6.0	300	1.0 △♦	10Ø	300m	30		2.5M§△	400m	500nØ		B16h	D
43	MJE53†	640m	80 Ø	§J	5.0	2.0	450	6.0	350	1.0M♦	10Ø	300m	30		2.5M§△	400m	500nØ		B16h	D
44	MJE2020	640m	80 Ø	§J	5.0	3.0	40	5.0	40	400u	4.0Ø	1.0	25	125 #	3.0M§△			△	B23	D
45	MJE2021	640m	80 Ø	§J	5.0	3.0	60	5.0	60	400u	4.0Ø	1.0	25	125 #	3.0M§△			△	B23	D
46▼	MJE13006†	640m	2.0	§S	8.0	4.0		9.0	300 ☑	1.0m☑	5.0Ø	2.0	8.0 #	40 #	4.0M§△	500m#	500n		Y220b	XØ
47▼	MJE13007†	640m	2.0	§S	8.0	4.0		9.0	400 ☑	1.0m☑	5.0Ø	2.0	8.0 #	40 #	4.0M§△	500m#	500n		Y220b	XØ
48	MRF224	640mØ	80 Ø	§S	6.0		36	4.0	18	2.5mØ♦	5.0Ø	1.0	5.0						W52h	R
49	TIP33†	640m	3.5	§J	10 †	3.0	40 †	5.0†	40	700u△♦	4.0Ø	3.0	20	100 #	3.0M§△		600nØ	DM	B3	BØ
50	TIP33A†	640m	3.5	§J	10 †	3.0	60 †	5.0†	60	700u△♦	4.0Ø	3.0	20	100 #	3.0M§△		600nØ	DM	B3	BØ
51	TIP33B†	640m	3.5	§J	10 †	3.0	80 †	5.0†	80	700u△♦	4.0Ø	3.0	20	100 #	3.0M§△		600nØ	DM	B3	BØ
52	TIP33C†	640m	3.5	§J	10 †	3.0	100 †	5.0†	100	700u△♦	4.0Ø	3.0	20	100 #	3.0M§△		600nØ	DM	B3	BØ
53▼	TIP73†	640m	80 Ø	§S	15	5.0	50	5.0	40 §	50u§	4.0Ø	5.0	20 #	150 #	5.0M§	260m#	350n	DM†	B1	BØ
54▼	TIP73A†	640m	80 Ø	§S	15	5.0	70	5.0	60 §	50u§	4.0Ø	5.0	20 #	150 #	5.0M§	260m#	350n	DM†	B1	BØ
55▼	TIP73B†	640m	80 Ø	§S	15	5.0	90	5.0	80 §	50u§	4.0Ø	5.0	20 #	150 #	5.0M§	260m#	350n	DM†	B1	BØ
56▼	TIP73C†	640m	80 Ø	§S	15	5.0	110	5.0	100 §	50u§	4.0Ø	5.0	20 #	150 #	5.0M§	260m#	350n	DM†	B1	BØ
57	2N5329	645m§	65 Ø	§J	20	5.0	150	8.0	90		2.0Ø	10	40	120	80M§△	90m	350nØ		T061	A
58	KSD1051	650m	115	J	15	3.0	55	7.0	45	5.0m	4.0	4.0	20	70	800k			D	TO3	Ø
59	KSD1052	650m	115	J	15	3.0	100	7.0	80	5.0m	4.0	4.0	20	70	800k			D	TO3	Ø
60	KSD1053	650m	115	J	15	3.0	120	7.0	100	5.0m	4.0	4.0	20	70	800k			D	TO3	Ø
61	KSD1054	650m	115	J	15	3.0	140	7.0	120	5.0m	4.0	4.0	20	70	800k			D	TO3	Ø
62	KSD1055	650m	115	J	15	3.0	55	7.0	45	5.0m	4.0	4.0	15	70	800k			D	TO3	Ø
63	KSD1056	650m	115	J	15	3.0	80	7.0	60	5.0m	4.0	4.0	15	70	800k			D	TO3	Ø
64	KSD1057	650m	115	J	15	3.0	100	7.0	80	5.0m	4.0	4.0	15	70	800k			D	TO3	Ø
65	KSD1058	650m	115	J	15	3.0	120	7.0	100	5.0m	4.0	4.0	15	70	800k			D	TO3	Ø
66	KSD2201	650m	115	J	10	2.0	140	7.0	120	1.0m	4.0	3.0	20	70	800k			D	TO3	Ø
67	KSD2202	650m	115	J	10	2.0	120	7.0	100	1.0m	4.0	3.0	20	70	800k			D	TO3	Ø
68	KSD2203	650m	115	J	10	2.0	100	7.0	80	1.0m	4.0	3.0	20	70	800k			D	TO3	Ø
69	KSD3055	650m	115	J	15	3.0	100	7.0	60	5.0m	4.0	4.0	20		800k			D	TO3	Ø
70▼	2N3055H	657m	115 Ø	§J	15	7.0	100	7.0	60	700u△Ø	4.0Ø	4.0	20 #	70 #	800k§△	800m#		H	TO3	CØ
71	2N6253	657m	115 Ø	§J	15	7.0	55 †	5.0†	45	1.5m△♦	4.0Ø	3.0	20	150 #					TO3	CØ
72#	2SD341H	657m	115 Ø	§J	15	7.0	100	7.0	60	700u△	4.0Ø	4.0	20	70	800k§△	275m		D	F6h	CØ
73	MJ2801	657m	115 Ø	§J	15	7.0	50	7.0	40	5.0m	4.0Ø	8.0	15	60 #	1.0M§△			△	TO3	CØ
74	RCA1B01	657m	115 Ø	§J	15	7.0	95	7.0	95 §	500u*♦	4.0Ø	4.0	20	70	800k§△	250m		H	TO3	CØ
75	SD1288	657m	115 Ø	§J	10		36	4.0	18	10m	.5Ø	250m	5.0	50	100M§△			PE	T72r	R
76	SD1290	657m	115 Ø	§J	10		36	4.0	18	1.0m	.5Ø	250m	5.0	50	100M§△			PE	T72r	R
77	2N5873†	658m	115 Ø	§J	7 0	2.0	60 †	5.0†	60	250u♦	4.0Ø	2.5	20	100	4.0M§△	250m	700n☑		TO3	CØ
78	2N5874†	658m	115 Ø	§J	7.0	2.0	80 †	5.0†	80	250u♦	4.0Ø	2.5	20	100	4.0M§△	250m	700n☑		TO3	CØ
79	2N3055	660m	115 Ø	§C	15	7.0	100 †	7.0†	70 §	5.0m#♦	4.0Ø	4.0	20	70	10k△	275m			TO3	CØ
80	KSP1141	660m			10	2.0	225	8.0	200	10u	5.0	5.0	20	60	50M			PE	TO3	Ø
81	KSP1142	660m			10	2.0	250	8.0	225	10u	5.0	5.0	20	60	50M			PE	TO3	Ø
82	KSP1143	660m			10	2.0	275	8.0	250	10u	5.0	5.0	20	60	50M			PE	TO3	Ø
83	KSP1144	660m			10	2.0	300	8.0	275	10u	5.0	5.0	20	60	50M			PE	TO3	Ø
84	KSP1145	660m			10	2.0	325	8.0	300	10u	5.0	5.0	20	60	50M			PE	TO3	Ø
85	KSP1171	660m			10	2.0	60	8.0	40	1.0u	5.0	5.0	20	60	60M			PE	TO3	Ø
86	KSP1172	660m			10	2.0	100	8.0	80	1.0u	5.0	5.0	20	60	60M			PE	TO3	Ø
87	KSP1173	660m			10	2.0	140	8.0	120	1.0u	5.0	5.0	20	60	60M			PE	TO3	Ø
88	KSP1174	660m			10	2.0	60	8.0	40	1.0u	5.0	5.0	40	120	60M			PE	TO3	Ø
89	KSP1175	660m			10	2.0	100	8.0	80	1.0u	5.0	5.0	40	120	60M			PE	TO3	Ø
90	KSP1176	660m			10	2.0	140	8.0	120	1.0u	5.0	5.0	40	120	60M			PE	TO3	Ø
91	MRF450	660m	115 Ø	§S	7.5		40	4.0	20		5.0Ø	1.0m	10						W52h	R
92	MRF450A	660m	115 Ø	§S	7.5		40	4.0	20		5.0Ø	1.0m	10							
93	2N451	666m	85 Ø	§J	5.0	500m	65	10	65	20m	10Ø	1.0	10			4.0		D	T4	
94	2N1722	666m§	3.0	§J	5.0	5.0 Ø	120	10	80	500uØ	15Ø	2.0	20	90 #	10M§△				TO53	AØ
95	JAN2N1722	666m△	3.0	§A	5.0		175	10	80	5.0m	15Ø	2.0	30	90 #	10M§△				TO53	AØ
96	2N1722A	666m§	50 Ø	§J	7.5	1.0	180	10	120	10m	15Ø	5.0	20 #		10M§	300m		ME	TO53	AØ
97	2N1723	666m§	50 Ø	§J	7.5	1.0	120	10	80	10m	15Ø	2 0	50	150 #	10M§	500m		ME	TO53	AØ
98	2N1724	666m§	3.0	§J	5.0	5.0 Ø	120	10	80	500uØ	15Ø	2.0	20	90 #	10M§△				TO61	AØ
99	JAN2N1724	666m△	3.0	§A	5.0		175	10	80	5.0m	15Ø	2.0	30	90 #	10M§△				T061	AØ
100	2N1724A	666m	3.0	§J	5.0	1 0	180	10	120	100uØ	15Ø	2.0	30	90 #	10M§				TO61	AØ
101	2N1725	666m	3.0	§J	5.0	5.0 Ø	120	10	80	100uØ	15Ø	2.0	50	150 #	10M§				TO61	AØ
102	2N3055-1	666m	117 Ø	§J	15	7.0		7.0	40 #		4.0Ø	3.0	20	70 #	800k§△			D	TO3	CØ
103	2N3055-2	666m	117 Ø	§J	15	7.0		7.0	40 #		4.0Ø	3.0	10	70 #	800k§△			D	TO3	CØ
104	2N3055-3	666m	117 Ø	§J	15	7.0		7.0	100 #		4.0Ø	3.0	20	70 #	800k§△			D	TO3	CØ
105	2N3055-4	666m	117 Ø	§J	15	7.0		7.0	30 #		4.0Ø	3.0	30	70 #	800k§△			D	TO3	CØ
106	2N3055-5	666m	117 Ø	§J	15	7.0		7.0	30 #		4.0Ø	4.0	14 #		800k§△			D	TO3	CØ
107	2N3055-6	666m	117 Ø	§J	15	7.0		7.0	100 #		4.0Ø	4.0	15	70 #	800k§△			D	TO3	CØ
108	2N3055-7	666m	117 Ø	§J	15	7.0		7.0	100 #		4.0Ø	3.0	14	70 #	800k§△			D	TO3	CØ
109	2N3055-8	666m	117 Ø	§J	15	7.0		7.0	100 #		4.0Ø	4 0	70 #		800k§△			D	TO3	CØ
110	2N3055-9	666m	117 Ø	§J	15	7.0		7.0	55 #		4.0Ø	3.0	14	70 #	800k§△			D	TO3	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1#	BDX13	666m	117 Ø	§J	15	7.0	50	5.0	40		4.0Ø	8.0	15	60 #	500k§			H	TO3	CØ
2#	BDX23	666m	117	§J	15	7 0		7 0	95 §		4.0Ø	500m	20	250				D	TO3	
3#	BDY20†	666m	115 Ø	§J	15		100	7.0	60	5.0m	4.0Ø	4.0	20	70	1.0M§	275m	2.0u	D	TO3	CØ
4#	BDY38	666m	115 Ø	§J	6.0	2.0 #	50	7.0	40	1.0m	4.0Ø	2.0	30		1.0M§	350m		D	TO3	CØ
5#	BDY39	666m	115 Ø	§J	15	7.0	100	7 0	60	1.0m§	4.0Ø	4.0	25	100	1.1M§			D	TO3	TØ
6#	BDY73	666m	117 Ø	§J	15 †	7.0	100 †	7.0†	60	5.0m#♦	4.0Ø	4.0	50	150 #	800k§Δ			HΔ	TO3	CØ
7#	BDY74	666m	117 Ø	§J	10 †	7.0	150 †	7.0†	120	1.0mØ♦	4.0Ø	3.0	50	150	800k§Δ	333m		HΔ	TO3	CØ
8#	BDY96†	666mØ	40 Ø	♦J	10	4.0			350	500u§	5.0Ø	2.0	15	60	10M§	200m	350nØ		TO3	CØ
9♦#	BDY96/01†	666m	40 Ø	§J	10	4.0		6.0$	400	500u§	5.0Ø	2.0	30 Ø		10M§	300m	350nØ		TO3	CØ
10#	BDY97†	666mØ	40 Ø	♦J	10	4.0			300	500u§	5.0Ø	2.0	25	80	10M§	300m	350nØ		TO3	CØ
11♦#	BDY97/01†	666m	40 Ø	§J	10	4 0		6 0$	300	500u§	5.0Ø	2.0	30 Ø		10M§	300m	350nØ		TO3	CØ
12#	BDY98†	666mØ	40 Ø	♦J	10	4.0			250	500u§	5.0Ø	2.0	25	80	10M§	300m	350nØ		TO3	CØ
13#	BLY17	666m	100 Ø	§J	10	2.0	100	4.0	100 §	10mØ	0.0	10 Δ	5.0	25 Ø	70M§			DPL	TO36	Ø
14#	BU120	666m	50	ØC	5.0			8.0	400 Ø		5.0Ø	1.0	35	165	10M§	660m		DM	TO3	CØ
15#	BU123	666m	50	ØC	5.0			8.0	180 Ø		5.0Ø	1.0	25	250	10M§	930m		DM	TO3	CØ
16#	BUX82†	666mØ	60 Ø	§J	5.0	2.0		10	400	1.0m§					8.0M§	600m	350nØ		TO3	CØ
17#	BUX83	666m	60 Ø§	§J	8.0				500	1.0m§♦					8.0M§	600m			TO3	CØ
18	DTS701	666m§	50 Ø	§J	1.0	250m		5.0	800	500uΔ	5.0Ø	150m	20		1.5M§Δ			D	Y204a	CØ
19	DTS702	666m§	50 Ø	§J	3.0	1 0		5.0	1.0k	500uΔ	5.0Ø	2.0	2.5		1.5M§Δ		1.0u#Ø	DΔ	Y204a	CØ
20	DTS704	666m§	50 Ø	§J	3.0	1.0		5.0	1.0k	500uΔ	5.0Ø	2.0	2.5		1.5M§Δ		1.0u#Ø	DΔ	Y204a	CØ
21	DTS708	666m	50 Ø	§J	3.0	2 0		5.0	900	250mΔ					1.5M§Δ	2.0	1.5u#Ø	DΔ	Y204a	CØ
22	DTS709	666m	50 Ø	§J	3.0	2.0		5.0	900	250mΔ					1.5M§Δ	500m	1.5u#Ø	DΔ	Y204a	CØ
23	DTS710	666m	50 Ø	§J	3.0	2.0		5.0	900	250mΔ	5.0Ø	150m	10	50	1.5M§Δ			D	Y204a	CØ
24	DTS712	666m§	50 Ø	§J	3.0	1.0		5.0	900	500uΔ	5.0Ø	2.0	2.5		1.5M§Δ		1.0u#Ø	DΔ	Y204a	CØ
25	DTS714	666m§	50 Ø	§J	3.0	1.0		5.0	900	500uΔ	5.0Ø	2.0	2.5		1.5M§Δ		1.0u#Ø	DΔ	Y204a	CØ
26	DTS720	666m§	50 Ø	§J	3.0	1.0		5.0	1.0k	250uΔ	5.0Ø	150m	18	54	1.5M§			D	Y204a	CØ
27	DTS723	666m§	50 Ø	§J	3.0	1.0		5.0	1.0k	250uΔ	5.0Ø	500m	10		1.5M§Δ			D	Y204a	CØ
28	IR701	666m	50 Ø	§J	1.0	250m		5.0	800	500uΔ	5.0Ø	150m	20		1.5M§			D	TO3	CØ
29	IR708	666m	50 Ø	§J	3.0	2.0		5.0	900	250uΔ					1.5M§	2.0	1.5u#	D	TO3	CØ
30	IR709	666m	50 Ø	§J	3.0	2.0		5.0	900	250uΔ					1.5M§	500m	1.5u#	D	TO3	CØ
31	IR710	666m	50 Ø	§J	3.0	2.0		5.0	900	250uΔ	5.0Ø	150m	10	50	1.5M§			D	TO3	CØ
32	IR721	666m	50 Ø	§J	3.0	1.0		5 0	1.0k	250uΔ	5.0Ø	150m	20	60	1 5M§			D	TO3	CØ
33#	KT927A	666m	83 Ø	§J	10				35	40m*	6.0	5.0	15	50					T67c	
34#	KT927B	666m	83 Ø	§J	10				35	40m*	6.0	5 0	25	75					T67c	
35#	KT927V	666m	83 Ø	§J	10				35	40m*	6.0	5.0	40	100					T67c	
36	MJ3010	666m	100 Ø	§J				5.0	200			500m	20	180		670m			TO3	Ø
37	MJ3011	666m	100 Ø	§J				5.0	325			2.0	10			670m			TO3	Ø
38	MRF644	666m	117 Ø	§S	6.0		36	4 0†	16	5.0m§♦	5.0Ø	4.0	40	100					W65a	S
39	PP3000	666m	115 Ø		15		60		50		4.0Ø	5.0	12					DM	TO3	CØ
40	PP3001	666m	115 Ø		15		100		80		4.0Ø	5.0	12					DM	TO3	CØ
41	PP3002	666m	115 Ø		15		120		100		4.0Ø	5.0	12					DM	TO3	CØ
42	PP3003	666m	115 Ø		15		60		50		4.0Ø	5.0	12					DM	TO3	CØ
43	PP3004	666m	115 Ø		15		100		80		4.0Ø	5.0	12					DM	TO3	CØ
44	PP3005	666m	115 Ø		15		120		100		4.0Ø	5.0	12					DM	TO3	CØ
45	PT1937	666m	5.0 Ø	#J	7.0		140	4.0	100 §	50m	2.0Ø	7.0	15	60 #	40M§Δ			PL	TO80	
46	PT5992	666m	116	§	30	10	120	5.0	70	5.0m	5.0Ø	10	20		30M	67m		PL	W39	
47	PT6939†	666m	100 Ø	§A			220	8.0	200		5.0Ø	5.0	40			100m▼			T061	
48	PT6984†	666m	100 Ø	§J	30		250	6.0	250	5.0mØ	5.0Ø	10	15	75	50M§Δ	100m	500nØØ	PL	T061	A
49	PT6988†	666m	100 Ø	§J	30		250	6.0	250	5.0mØ	5.0Ø	10	15	75	50M§Δ	100m	500nØØ	PL	T063	AØ
50	RCS242	666m	115 Ø	§J	15	7.0	50	4.0	40 Ø	5.0mØ♦	4.0Ø	3.0	20 #			366m#		H	TO3	CØ
51	SDT7201	666m$	50 Ø	§J	10		225	8.0	200	1.0uØ	5.0Ø	5.0	20	60 #	50M§Δ			PL	TO3	A
52	SDT7202	666m$	50 Ø	§J	10		250	8.0	225	1 0uØ	5.0Ø	5.0	20	60 #	50M§Δ			PL	TO3	A
53	SDT7203	666m$	50 Ø	§J	10		275	8.0	250	1.0uØ	5.0Ø	5.0	20	60 #	50M§Δ			PL	TO3	A
54	SDT7204	666m$	50 Ø	§J	10		325	8.0	300	1.0uØ	5.0Ø	5.0	20	60 #	50M§Δ			PL	TO3	A
55	SDT7205	666m$	50 Ø	§J	10		350	8.0	325	1.0uØ	5.0Ø	5.0	20	60 #	50M§Δ			PL	TO3	A
56	SDT7206	666m	115		10	2.0	150	8.0	150	10u	5.0	5.0	10		30M			PL	TO3	
57	SDT7207	666m	115		10	2.0	200	8.0	200	10u	5.0	5.0	15		30M			PL	TO3	
58	SDT7208	666m	115		10	2.0	250	8.0	250	10u	5.0	5.0	15		30M			PL	TO3	
59	SDT7209	666m	115		10	2.0	300	8 0	300	10u	5.0	5.0	15		30M			PL	TO3	
60	SDT7601	666m	60 Ø$	§J	10	5.0	60	8.0	40	500n	5.0Ø	5.0	40	120 #	60M§	100m		PE	TO3	CØ
61	SDT7602	666m	60 Ø$	§J	10	5.0	80	8.0	60	500n	5.0Ø	5.0	40	120 #	60M§	100m		PE	TO3	CØ
62	SDT7603	666m	60 Ø$	§J	10	5.0	100	8.0	80	500n	5.0Ø	5.0	40	120 #	60M§	100m		PE	TO3	CØ
63	SDT7604	666m	60 Ø$	§J	10	5.0	140	8.0	120	500n	5.0Ø	5.0	40	120 #	60M§	100m		PE	TO3	CØ
64	SDT7605	666m	60 Ø$	§J	10	5.0	170	8.0	150	500n	5.0Ø	5.0	40	120 #	60M§	120m		PE	TO3	CØ
65	SDT7606	666m	60 Ø$	§J	10	5.0	220	8.0	200	500n	5.0Ø	5.0	40	120 #	60M§	120m		PE	TO3	CØ
66	SDT7607	666m	60 Ø	$	10	5.0	60	8.0	40	500n	5.0	5.0	20	60	60M§	100m		PL	TO3	CØ
67	SDT7608	666m	60 Ø	$	10	5.0	80	8.0	60	500n	5.0	5.0	20	60	60M§	100m		PL	TO3	CØ
68	SDT7609	666m	60 Ø	$	10	5.0	100	8.0	80	500n	5.0	5.0	20	60	60M§	100m		PL	TO3	CØ
69	SDT7610	666m	60 Ø	$	10	5.0	140	8.0	120	500n	5.0	5.0	20	60	60M§	100m		PL	TO3	CØ
70	SDT7611	666m	60 Ø	$	10	5.0	170	8.0	150	500n	5.0	5.0	20	60	60M§	120m		PL	TO3	CØ
71	SDT7612	666m	60 Ø	$	10	5.0	220	8.0	200	500n	5.0	5.0	20	60	60M§	120m		PL	TO3	CØ
72	SDT9201	666m	117 Ø	§J	15	7.0		12	55 #	2.0mΔ♦	4.0Ø	4.0	20	70 #	800k§Δ			D	TO3	CØ
73	SDT9202	666m	117 Ø	§J	15	7.0		12	100 #	700uΔ♦	4.0Ø	4.0	20	70 #	800k§Δ			D	TO3	CØ
74	SDT9203	666m	117 Ø	§J	15	7.0		12	120 #	700uΔ♦	4.0Ø	4.0	20	70 #	800k§Δ			D	TO3	CØ
75	SDT9204	666m	117 Ø	§J	15	7.0		12	140 #	700uΔ♦	4.0Ø	4.0	20	70 #	800k§Δ			D	TO3	CØ
76	SDT9205	666m	117 Ø	§J	15	7.0		12	55 #	2 0mΔ♦	4.0Ø	4.0	15	70 #	800k§Δ			D	TO3	CØ
77	SDT9206	666m	117 Ø	§J	15	7.0		12	80 #	700uΔ♦	4.0Ø	4.0	15	70 #	800k§Δ			D	TO3	CØ
78	SDT9207	666m	117 Ø	§J	15	7.0		12	100 #	700uΔ♦	4.0Ø	4.0	15	70 #	800k§Δ			D	TO3	CØ
79	SDT9208	666m	117 Ø	§J	15	7.0		12	120 #	700uΔ♦	4.0Ø	4.0	15	70 #	800k§Δ			D	TO3	CØ
80	SDT9209	666m	117 Ø	§J	15	7.0		12	140 #	700uΔ♦	4.0Ø	4.0	15	70 #	800k§Δ			D	TO3	CØ
81	SDT9210	666m	117 Ø	§J	15	7.0		5.0	40 #	5.0mΔ♦	2.0Ø	2.0	15	70 #	800k§Δ			D	TO3	CØ
82	SDT85301	666m		§J	10	1.0	60	8.0	40	5.0uØ	5.0Ø	5.0	40	120	40M§				TO3	CØ
83	SDT85302	666m		§J	10	1.0	80	8.0	60	5.0uØ	5.0Ø	5.0	40	120	40M§				TO3	CØ
84	SDT85303	666m		§J	10	1.0	100	8.0	80	5.0uØ	5.0Ø	5.0	40	120	40M§				TO3	CØ
85	SDT85304	666m		§J	10	1.0	140	8.0	120	5.0uØ	5.0Ø	5.0	40	120	40M§				TO3	CØ
86	SDT85305	666m		§J	10	1.0	170	8.0	150	5.0uØ	5.0Ø	5.0	40	120	40M§				TO3	CØ
87	SDT85306	666m		§J	10	1.0	60	8.0	40	5.0uØ	5.0Ø	5.0	20		40M§				TO3	CØ
88	SDT85307	666m		§J	10	1.0	80	8 0	60	5.0uØ	5.0Ø	5.0	20		40M§				TO3	CØ
89	SDT85308	666m		§J	10	1.0	100	8.0	80	5.0uØ	5.0Ø	5.0	20		40M§				TO3	CØ
90	SDT85309	666m		§J	10	1.0	140	8.0	120	5.0uØ	5.0Ø	5.0	20		40M§				TO3	CØ
91	SDT85310	666m		§J	10	1.0	170	8.0	150	5.0uØ	5.0Ø	5.0	20		40M§				TO3	CØ
92	SPT3713	666m	115 Ø	§J	15	7.0	40	5.0	30 Ø	5.0m#	2.0Ø	2.0	15			550m			TO3	CØ
93	ST18011	666m	50 Ø	§J	10		375	10	375		10	5.0	20		10M	300m		PE	TO61	
94	ST18012	666m	50 Ø	§J	10		300	10	300		10	5.0	20		10M	300m		PE	TO61	
95	ST18013	666m	50 Ø	§J	10		250	10	250		10	5.0	20		10M	300m		PE	TO61	
96	ST18014	666m	50 Ø	§J	10		200	10	200		10	5.0	20		10M	300m		PE	TO61	
97	STS660	666mØ	60 Ø	§J	3.5	2.0	200	5.0	200	250uΔ	5.0Ø	1.0	30	90	2.5M§Δ	800m		EM	TO66	CØ
98	STS663	666mØ	60 Ø	§J	3.5	2.0	400	5.0	400	250uΔ	5.0Ø	1.0	30	90	2.5M§Δ	800m		EM	TO66	CØ
99	STS665	666mØ	60 Ø	§J	3.5	2.0	700	5.0	500	250uΔ	5.0Ø	1.0	30	90	2.5M§Δ	800m		EM	TO66	CØ
100	SVT350-3†	666m	75 Ø	§J	6.0	1.0	350	7.0	350	200u	5.0	3.0	15		30m		100n	DM	TO3	CØ
101	SVT400-3†	666m	75 Ø	§J	6.0	1.0	400	7.0	400	200u	5.0	3.0	15		30m		100n	DM	TO3	CØ
102	SVT450-3†	666m	75 Ø	§J	6.0	1.0	450	7.0	450	200u	5.0	3.0	15		30m		100n	DM	TO3	CØ
103	TI1121	666m#	80 Ø	§J	7.5	5.0	200	8.0	100	10m	4.0Ø	2.0	30	120 #	7.5M§Δ	500m		ME	TO53	AØ
104	TI1122	666m#	80 Ø	§J	7.5	5.0	200	8.0	100	10m	4.0Ø	2.0	15	60 #	7.5M§Δ	500m		ME	TO53	AØ
105	TI1123	666m#	80 Ø	§J	7.5	5.0	150	8.0	75	10m	4.0Ø	2.0	30	120 #	7.5M§Δ	500m		ME	TO53	AØ
106	TI1124	666m#	80 Ø	§J	7.5	5.0	150	8.0	75	10m	4.0Ø	2.0	15	60 #	7.5M§Δ	500m		ME	TO53	AØ
107	TI1125	666m#	80 Ø	§J	7.5	5.0	100	8.0	50	10m	4.0Ø	2.0	30	120 #	7.5M§Δ	500m		ME	TO53	AØ
108	TI1126	666m#	80 Ø	§J	7.5	5.0	100	8.0	50	10m	4.0Ø	2.0	15	60 #	7.5M§Δ	500m		ME	TO53	AØ
109	TI1131	666m#	80 Ø	§J	7.5	5.0	200	8.0	100	10m	4.0Ø	2.0	30	120 #	7.5M§Δ	500m		ME	T10	Ø
110	TI1132	666m#	80 Ø	§J	7.5	5.0	200	8.0	100	10m	4.0Ø	2.0	15	60 #	7.5M§Δ	500m		ME	T10	Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N6590†	714m	125 Ø	§J	10	5.0	550 †	9.0†	450 ☑	500uØ♦	3.0Ø	7.0	7.0	35	25M§△	214m	500nØ		T061	A
2	410†	714m	125 Ø	§J	7.0	2.0	200	5.0	200 ☑	250u△	5.0Ø	1.0	30	90 #	4.0M§		350n	E	TO3	CØ
3	411†	714m	125 Ø	§J	7.0	2.0	300	5.0	300 ☑	250u△	5.0Ø	1.0	30	90 #	2.5M§		350n	E	TO3	CØ
4	413†	714m	125 Ø	§J	7.0	2.0	400	5.0	325 ☑	250u△	5.0Ø	500m	20	80 #	4.0M§		350n	E	TO3	CØ
5#	BDW51	714m	125 Ø	§J	15	7.0	45	5.0	45	500u	4.0Ø	5.0	20	150	3.0M§△	300m		E	TO3	CØ
6#	BDW51A	714m	125 Ø	§J	15	7.0	60	5.0	60	500u	4.0Ø	5.0	20	150	3.0M§△	300m		E	TO3	CØ
7#	BDW51B	714m	125 Ø	§J	15	7.0	80	5.0	80	500u	4.0Ø	5.0	20	150	3.0M§△	300m		E	TO3	CØ
8#	BDW51C	714m	125 Ø	§J	15	7.0	100	5.0	100	500u	4.0Ø	5.0	20	150	3.0M§△	300m		E	TO3	CØ
9▼#	BUW26†	714m	125 Ø	§J	6.0	3.0 #	850	7.0	450	500u§♦	5.0Ø	1.0	10	70	20M§	1.0	1.5u#	PE△	TO3	CØ
10♦	DTS515†	714m	125 Ø	§J	10	4.0	300	5.0	250 ☑	500u	5.0Ø	3.0	15	80	5.0M§△	600m	250n#	D	Y204a	CØ
11♦	DTS516†	714m	125 Ø	§J	10	4.0	400	5.0	250 ☑	500u	5.0Ø	3.0	20	80	5.0M§△	500m	250n#	D	Y204a	CØ
12♦	DTS517†	714m	125 Ø	§J	10	4.0	500	5.0	250 ☑	500u	5.0Ø	3.0	20	80	5.0M§△	400m	250n#	D	Y204a	CØ
13♦	DTS518†	714m	125 Ø	§J	10	4.0	600	5.0	275 ☑	500u	5.0Ø	3.0	25	75	5.0M§△	333m	250n#	D	Y204a	CØ
14♦	DTS519†	714m	125 Ø	§J	10	4.0	700	5.0	300 ☑	500u	5.0Ø	3.0	25	75	5.0M§△	333m	250n#	D	Y204a	CØ
15▼	DTS520	714m	125 Ø	§J	10	4.0	700	5.0	350 ☑	500u	5.0Ø	3.0	20	80	5.0M§△	500m	250n#	D	Y204a	CØ
16	IR515	714m	125 Ø	§J	10	4.0	300	5.0	250	500u	5.0Ø	3.0	15	80	5.0M§	600m	400n	D	TO3	CØ
17	IR516	714m	125 Ø	§J	10	4.0	400	5.0	250	500u	5.0Ø	3.0	20	80	5.0M§	500m	400n	D	TO3	CØ
18	IR517	714m	125 Ø	§J	10	4.0	500	5.0	250	500u	5.0Ø	3.0	20	80	5.0M§	400m	400n	D	TO3	CØ
19	IR518	714m	125 Ø	§J	10	4.0	600	5.0	275	500u	5.0Ø	3.0	25	75	5.0M§	333m	400n	D	TO3	CØ
20	IR519	714m	125 Ø	§J	10	4.0	700	5.0	300	500u	5.0Ø	3.0	25	75	5.0M§	333m	400n	D	TO3	CØ
21	PT6947†	714m	125 Ø	§A			120	8.0	70		5.0Ø	5.0	40	200	100M§	120m▼			TO3	CØ
22	PT6948†	714m	125 Ø	§A			160	8.0	100		5.0Ø	5.0	40	200	100M§	140m▼			TO3	CØ
23	PT6949†	714m	125 Ø	§A			200	8.0	140		5.0Ø	5.0	30	150	100M§	160m▼			TO3	CØ
24	PT7921†	714m	125 Ø	§A			90	6.0	70		5.0Ø	5.0	30		100M§	140m▼			TO3	CØ
25	PT7922†	714m	125 Ø	§A			90	6.0	70		5.0Ø	5.0	40	200	100M§	120m▼			TO3	CØ
26	PT7923†	714m	125 Ø	§A			120	8.0	70		5.0Ø	5.0	30		100M§	140m▼			TO3	CØ
27	PT7927†	714m	125 Ø	§A			170	6.0	140		5.0Ø	5.0	20		100M§	180m▼			TO3	CØ
28	PT7928†	714m	125 Ø	§A			170	6.0	140		5.0Ø	5.0	30	150	100M§	160m▼			TO3	CØ
29	PT7929†	714m	125 Ø	§A			200	8.0	140		5.0Ø	5.0	20		100M§	180m▼			TO3	CØ
30	RCA410	714m	125 Ø	§J	7.0	2.0	200	5.0	200 ☑	250u△	5.0Ø	1.0	30	90 #	4.0M§	800m#	350n	E	TO3	CØ
31	RCA411	714m	125 Ø	§J	7.0	2.0	300	5.0	300 ☑	250u△	5.0Ø	1.0	30	90 #	2.5M§	800m#	350n	E	TO3	CØ
32	RCA413	714m	125 Ø	§J	7.0	2.0	400	5.0	325 ☑	250u△	5.0Ø	500m	20	80 #	4.0M§	800m#	350n	E	TO3	CØ
33	RCA423	714m	125 Ø	§J	7.0	2.0	400	5.0†	400	250u△	5.0Ø	1.0	30 #	90 #	4.0M	800m#	350n	E	TO3	CØ
34	RCA431	714m	125 Ø	§J	7.0	2.0	400	5.0†	400	250u△	5.0Ø	2.5	15	35	4.0M	280m#	350n	E	TO3	CØ
35♦#	RCS579†	714m	125 Ø	§J	8.0	4.0	500	6.0	250	500u△	5.0Ø	3.0	12		5.0M§	625m	600n	E	TO3	CØ
36	SCD321	714m	125 Ø	§A	10	4.0		5.0	80 ☑	1.0m#	4.0Ø	4.0	20	100		250m		DME	TO3	CØ
37	SDT7731†	714m$	71 Ø	§J	10	2.0	60	20	40	1.0uØ	5.0Ø	5.0	20	80	5.0M§△	100m	400nØ		TO3	CØ
38	SDT7732†	714m$	71 Ø	§J	10	2.0	80	20	60	1.0uØ	5.0Ø	5.0	20	80	5.0M§△	100m	400nØ		TO3	CØ
39	SDT7733†	714m$	71 Ø	§J	10	2.0	100	20	80	1.0uØ	5.0Ø	5.0	20	80	5.0M§△	100m	400nØ		TO3	CØ
40	SDT7734†	714m$	71 Ø	§J	10	2.0	120	20	100	1.0uØ	5.0Ø	5.0	20	80	5.0M§△	100m	400nØ		TO3	CØ
41	SDT7735†	714m$	71 Ø	§J	10	2.0	140	20	125	1.0uØ	5.0Ø	5.0	20	80	5.0M§△	100m	400nØ		TO3	CØ
42	SDT7736†	714m$	71 Ø	§J	10	2.0	165	20	150	1.0uØ	5.0Ø	5.0	20	80	5.0M§△	100m	400nØ		TO3	CØ
43	STA8309	714m	125	§J	5.0	2.0	200	5.0	200	1.0m#	5.0Ø	3.0	20	200	15M§△	333m	400nØ	EM△	TO3	CØ
44	STA9370	714m	125	§J	20	10	225	5.0	225	500u#	4.0Ø	20	10	200	10M§△	100m	600n	EM△	TO3	CØ
45	STA9371	714m	125	§J	20	10	300	5.0	300	1.0m#	4.0Ø	15	10	200	10M§△	133m	600n	EM△	TO3	CØ
46	STA9372	714m	125	§J	20	10	350	5.0	350	1.0m#	4.0Ø	12	10	200	10M§△	167m	600n	EM△	TO3	CØ
47	2N6470	715m$	71 Ø	§J	15 †	5.0	50 †	5.0†	50 #*	1.0m△♦	4.0Ø	5.0	20	150 #	5.0M§△	233m#			TO3	CØ
48	2N6471	715m$	71 Ø	§J	15 †	5.0	70 †	5.0†	70 #*	1.0m△♦	4.0Ø	5.0	20	150 #	5.0M§△	233m#			TO3	CØ
49	2N6472	715m$	71 Ø	§J	15 †	5.0	90 †	5.0†	90 #*	1.0m△♦	4.0Ø	5.0	20	150 #	5.0M§△	233m#			TO3	CØ
50	MJE3055	718m	90 Ø	§J	10	6.0	70	5.0	60	1.0m♦	4.0Ø	4.0	20	70 #	2.0M§△			△	B16d	B
51	MJE3055K	718m	90 Ø	§J	10	6.0	70	5.0	60	1.0m♦	4.0Ø	4.0	20	70 #	2.0M§△			△	B23	D
52	2N5983	720m	90 Ø	§J	8.0	3.0	60 †	5.0†	40	1.0m△♦	2.0Ø	4.0	20	120 #	2.0M§△				B16a	BØ
53	2N5984	720m	90 Ø	§J	8.0	3.0	80 †	5.0†	60	1.0m△♦	2.0Ø	4.0	20	120 #	2.0M§△				B16a	BØ
54	2N5985	720m	90 Ø	§J	8.0	3.0	100 †	5.0†	80	1.0m△♦	2.0Ø	4.0	20	120 #	2.0M§△				B16a	BØ
55	BD205	720m	90 Ø	§J	10	6.0	55	5.0	45	1.0m♦	2.0Ø	2.0	15 #		1.5M§△	275m#		†	B16g	B
56	BD207	720m	90 Ø	§J	10	6.0	70	5.0	60	1.0m♦	2.0Ø	2.0	15 #		1.5M§△	275m#		†	B16g	B
57	BD605	720m	90 Ø	§J	10	6.0	55	5.0	45	1.0m♦	2.0Ø	2.0	30 #		1.5M§△	275m#		†	B16h	D
58	BD607	720m	90 Ø	§J	10	6.0	70	5.0	60	1.0m♦	2.0Ø	2.0	30 #		1.5M§△	275m#		†	B16h	D
59	BD609	720m	90 Ø	§J	10	6.0	80	5.0	80	1.0m♦	2.0Ø	2.0	30 #		1.5M§△	275m#		†	B16h	D
60▼	HSE3002-RT	720m	90 Ø	§J			80	4.0	80	100u	4.0Ø	1.0	40		500k§△				B3	B
61▼	HSE3003-RT	720m	90 Ø	§J			100	5.0	100	100u	4.0Ø	1.0	40		500k§△				B3	B
62	MJE1660	720m	90 Ø	§J	15	5.0	40	5.0	40	700u	4.0Ø	5.0	20	100 #	3.0M§△			△	B16a	B
63	MJE1661	720m	90 Ø	§J	15	5.0	60	5.0	60	700u	4.0Ø	5.0	20	100 #	3.0M§△			△	B16a	B
64	MJE2801	720m	90 Ø	§J	10	5.0	60	4.0	60	100u♦	2.0Ø	3.0	25	100					B16d	B
65	MJE2801K	720m	90 Ø	§J	10	5.0	60	4.0	60	100u♦	2.0Ø	3.0	25	100					B23	D
66	MJE5983	720m	90 Ø	§J	8.0	3.0	60	5.0	40	1.0m△♦	2.0Ø	4.0	20	120	2.0M§△	150m		△	B23	D
67	MJE5984	720m	90 Ø	§J	8.0	3.0	80	5.0	60	1.0m△♦	2.0Ø	4.0	20	120	2.0M§△	150m		△	B23	D
68	MJE5985	720m	90 Ø	§J	8.0	3.0	100	5.0	80	1.0m△♦	2.0Ø	4.0	20	120	2.0M§△	150m		△	B23	D
69	PT1941†	731m	90 Ø	§J	7.0	5.0	140	4.0	100 §	50m	2.0Ø	7.0	15	60	40M§△	230m	1.0uØ	DPL	T39	
70	BLY90	740m	130 Ø	§J	8.0		36	4.0	18	20m△	5.0Ø	1.0	10	50 Ø	550M§				T94	V
71	BLY94	740m	130 Ø	§J	6.0		65	4.0	36		5.0Ø	1.0	10	120	500M§			PL	T94	V
72#	2SD532	770m	70 Ø	♦J	7.0		200	10	70 §	10uØ	2.0	1.0	45	200	9.0M§			DM	TO3	K
73	STA7604	797m	140	§J	20	5.0	120	5.0	120	5.0m#	5.0Ø	5.0	40	120	40M§△	100m		EM	TO3	CØ
74	2N4130	800m	120 Ø	§J	10	2.0	80	4.0	65	20u	5.0Ø	2.0	10	60 #	1.2M§△				TO3	D☑
75	2N5038†	800m	140 Ø	§J	20	5.0	150	7.0	90 ☑	50m#	5.0Ø	12	20	100	60M§△	125m	500n		TO3	CØ
76	JAN2N5038†	800m	6.0	§J	20	5.0	150	7.0	90	25m	5.0Ø	2.0	50	200 #	60M§△		500nØ☑		TO3	CØ
77	2N5039†	800m	140 Ø	§J	20	5.0	120	7.0	75 ☑	50m#	5.0Ø	10	20	100	60M§△	125m	500n		TO3	CØ
78	JAN2N5039†	800m	6.0	§J	20	5.0	125	7.0	75	25m	5.0Ø	2.0	30	150 #	60M§△		500nØ☑		TO3	CØ
79	2N5330†	800m$	80 Ø	§J	30	5.0	150	8.0	90		2.0Ø	10	40	120	80M§△	60m	350nØ		T061	A
80	2N5466	800m$	80 Ø	§J	3.0	1.0	500	8.0	400	250u#	5.0Ø	3.0	15	60 #	2.5M§				TO3	AØ
81	2N5467	800m$	80 Ø	§J	3.0	1.0	700	8.0	400	250u#	5.0Ø	3.0	15	60 #	2.5M§				TO3	AØ
82	2N5671†	800m$	80 Ø	§J	30	10	120 †	7.0†	120 #		2.0Ø	15	20	100 #	50M§△		500nØ		TO3	CØ
83	JAN2N5671†	800m	80	§J	30	10	120	7.0	90	25m	2.0Ø	15	20	100 #	50M§△	50m#	500nØ☑		TO3	CØ
84	2N5672†	800m$	80 Ø	§J	30	10	150 †	7.0†	150 #		2.0Ø	15	20	100 #	50M§△		500nØ		TO3	CØ
85	JAN2N5672†	800m	8.0	§J	30	10	150	7.0	120	25m	2.0Ø	15	20	100 #	50M§△	50m#	500nØ☑		TO3	CØ
86	2N5709	800m	140 Ø	§J	12		70 †	4.0†	50	10m§†	10Ø	200m	5.0	50	50M§△				W51	R
87	2N5942	800m	140 Ø	§S	12		65	4.0	35	10m†§	5.0Ø	1.0	10		50M§△				W52f	R
88	2N5989	800m	100 Ø	§J	12	4.0	60 †	5.0†	40	2.0m△♦	2.0Ø	6.0	20	120 #	2.0M§△				B16a	BØ
89	2N5990	800m	100 Ø	§J	12	4.0	80 †	5.0†	60	2.0m△♦	2.0Ø	6.0	20	120 #	2.0M§△				B16a	BØ
90	2N5991	800m	100 Ø	§J	12	4.0	100 †	5.0†	80	2.0m△♦	2.0Ø	6.0	20	120 #	2.0M§△				B16a	BØ
91	2N6032†	800m$	80 Ø	§J	50	10	120	7.0	120 #		2.6Ø	50	10	50 #	50M§△		1.0uØ		F11a	CØ
92	2N6033†	800m$	80 Ø	§J	40	10	150	7.0	150 #		2.0Ø	40	10	50 #	50M§△		1.0uØ		F11a	CØ
93	2N6201	800m	140 Ø	§S	12		60 †	4.0†	35	20m§†									T92	R
94	2N6354†	800m$	80 Ø	§J	10 †	5.0	150 †	6.0†	130 #	5.0m♦	2.0Ø	5.0	20	150 #	80M§△		300nØ		TO3	CØ
95	2N6368	800m	140 Ø	§S	8.0		40 †	4.0†	20	10m§†	5.0Ø	1.0	10		50M§△				W52a	R
96	2N6439	800m	140 Ø	§S			60 †	4.0†	33	15m§♦									W55	R
97	2N6457	800m	140 Ø	§J	20		45 †	3.0†	25	5.0u§♦	5.0Ø	4.0	10	80	50M§△				T109	R
98	2N6460	800m	140 Ø	§J	20		45 †	3.0†	25	5.0u§♦	5.0Ø	4.0	10	80	50M§△				W52e	R
99	2N6496†	800m$	80 Ø	§J	15 †	5.0	150 †	7.0†	130 #*		2.0Ø	8.0	12	100 #	60M§△	125m#	500nØ		TO3	CØ
100#	2SC1079	800m	100 Ø	§J	12	12 Ø	150	5.0	120	100uØ	5.0Ø	2.0	40	140	4.0M§	330m		DM	TO3	CØ
101#	2SC1080	800m	100 Ø	§J	12	12 Ø	110	5.0	100	100uØ	5.0Ø	2.0	40	140	4.0M§	330m		DM	TO3	CØ
102#	2SC1226	800m	10 Ø	§J	3.0 #	600m	40	5.0	20	1.0uØ	5.0Ø	1.0	30	220	150M§	500m		PE	B15a	B
103#	2SC1226A	800m	10 Ø	§J	3.0 #	600m	50	5.0	40	1.0uØ	5.0Ø	1.0	30	220	150M§	500m		PE	B15a	B
104#	2SC1343	800m	100 Ø	§J	10	2.0	150	5.0	110	1.0mØ	5.0Ø	1.0	30	200		300m		D	TO3	CØ
105#	2SC1343H	800m	100 Ø	§J	10	4.0	130	5.0	110	1.0mØ	5.0Ø	1.0	30	200	15M§	300m		D	TO3	CØ
106#	2SC1468	800m	100 Ø	$	10	4.0	450	4.0	360	10m	5.0	5.0	4.0	16	10M§	200m	2.0 Ø	DM	F6e	C
107#	2SC1469	800m	100 Ø	$	10	4.0	500	4.0	400	10m	5.0	5.0	4.0	12	10M§	200m	2.0 Ø	DM	F6e	C
108♦#	2SC1672†	800m	120 Ø	§J	25	5.0	150	6.0	120	10u	2.0Ø	13	20	100		77m	500nØ	EM	TO3	CØ
109♦#	2SC1829	800m	100 Ø	§J	5.0	1.0	200	6.0	150	1.0m	4.0Ø	1.0	400	3.0k	15M§			DM	TO3	CØ
110▼#	2SC1831	800m	100 Ø	§J	8.0	3.0	90	6.0	70	1.0m	4.0Ø	1.0	500		10M§	333m		ME	TO3	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	BIAS Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1	KSD9703	850m	145	J	16	4.0	140	7.0	120	2.0m	4.0	8.0	15	60	800k			D	TO3	Ø
2	KSD9703A	850m	145	J	16	4.0	140	7.0	120	2.0m	4.0	8.0	10	30	800k			D	TO3	Ø
3	KSD9704	850m	145	J	16	4.0	100	7.0	80	10m	4.0	5.0	20	80	800k			D	TO3	Ø
4	KSD9705	850m	145	J	16	4.0	120	7.0	100	10m	4.0	5.0	20	80	800k			D	TO3	Ø
5	KSD9706	850m	145	J	16	4.0	140	7.0	120	10m	4.0	5.0	20	80	800k			D	TO3	Ø
6	KSD9707	850m	145	J	16	4.0	80	7.0	60	10m	4.0	5.0	15		800k			D	TO3	Ø
7	JAN2N2015	854m	150 Ø	§J	10	6.0	100	10	100 #	50uØ	4.0Ø	5.0	15	50		250m			TO36	CØ
8	JAN2N2016	854m	150 Ø	§J	10	6.0	130	10	130 #	50uØ	4.0Ø	5.0	15	50		250m			TO36	CØ
9	2N3055C	854m	150 Ø	§J	30	15	140	10	130 §§	1.0m#	4.0Ø	4.0	25	70		187m#			TO3	
10	2N3713	854m	150 Ø	§J	10	4.0	80	7.0	60	1.0m#	2.0Ø	1.0	25	75	30kΔ				TO3	CØ
11	2N3713HS	854m	150 Ø	§J	10	4.0	80	7.0	60	1.0m#	2.0Ø	1.0	25	75	30kΔ				TO3	CØ
12	2N3714	854m	150 Ø	§J	10	4.0	100	7.0	80	1.0m#	2.0Ø	1.0	25	75	30kΔ				TO3	CØ
13	2N3714HS	854m	150 Ø	§J	10	4.0	100	7.0	80	1.0m#	2.0Ø	1.0	25	75	30kΔ				TO3	CØ
14	2N3715	854m	150 Ø	§J	10	4.0	80	7.0	60	1.0m#	2.0Ø	1.0	50	150	30kΔ				TO3	CØ
15	2N3716	854m	150 Ø	§J	10	4.0	100	7.0	80	1.0m#	2.0Ø	1.0	50	150	30kΔ				TO3	CØ
16	2N3716HS	854m	150 Ø	§J	10	4.0	100	7.0	80	1.0m#	2.0Ø	1.0	50	150	30kΔ				TO3	CØ
17	2N3771	854m	150 Ø	§J	30	7.5	50	5.0	40	2.0m	4.0Ø	15	15	60 #		130m			TO3	CØ
18	2N3772	854m	150 Ø	§J	20	5.0	100	7.0	60	5.0m	4.0Ø	10	15	60 #		140m			TO3	CØ
19	2N3772C	854m	150 Ø	§J	30	15	140	10	135 §§	1.0m#	4.0Ø	10	15	60		90m#			TO3	
20	1561-0408	854m	150 Ø	§J	30	7.0	40	7.0	40	2.0 #	4.0Ø	8.0	15	60	800k§Δ	180m		D	TO3	CØ
21	1561-0410	854m	150 Ø	§J	30	7.0	40	7.0	40	2.0 #	4.0Ø	10	15	60	800k§Δ	140m		D	TO3	CØ
22	1561-0615	854m	150 Ø	§J	30	7.0	60	7.0	60	2.0 #	4.0Ø	15	15	60	800k§Δ	130m		D	TO3	CØ
23	1561-0808	854m	150 Ø	§J	30	7.0		7.0	80			8.0	15		1.0M§			D	TO3	CØ
24	1561-0810	854m	150 Ø	§J	30	7.0		7.0	80			10	15		1.0M§			D	TO3	CØ
25	1561-0815	854m	150 Ø	§J	30	7.0	80	7.0	80	2.0 #	4.0Ø	15	15	60	800k§Δ	130m		D	TO3	CØ
26	1561-1008	854m	150 Ø	§J	30	7.0	100	7.0	100	2.0 #	4.0Ø	8.0	15	60	800k§Δ	180m		D	TO3	CØ
27	1561-1010	854m	150 Ø	§J	30	7.0	100	7.0	100	2.0 #	4.0Ø	10	15	60	800k§Δ	140m		D	TO3	CØ
28	1561-1015	854m	150 Ø	§J	30	7.0	100	7.0	100	2.0 #	4.0Ø	15	15	60	800k§Δ	130m		D	TO3	CØ
29	1561-1208	854m	150 Ø	§J	30	7.0	120	7.0	120	2.0 #	4.0Ø	8.0	15	60	800k§Δ	180m		D	TO3	CØ
30	1561-1210	854m	150 Ø	§J	30	7.0	120	7.0	120	2.0 #	4.0Ø	10	15	60	800k§Δ	140m		D	TO3	CØ
31	1561-1215	854m	150 Ø	§J	30	7.0	120	7.0	120	2.0 #	4.0Ø	15	15	60	800k§Δ	130m		D	TO3	CØ
32	1561-1410	854m	150 Ø	§J	30	7.0	140	7.0	140	2.0 #	4.0Ø	10	15	60	800k§Δ	140m		D	TO3	CØ
33	1723-0405†	854m$	85 Ø§	§J	20 †	5.0	50 †	7.0†	40 ☑		4.0Ø	5.0	20 #		30M§Δ	200m#	250mØ☑	E	TO3	CØ
34	1723-0410†	854m$	85 Ø§	§J	20 †	5.0	50 †	7.0†	40 ☑		4.0Ø	10	20 #		30M§Δ	125m#	300nØ☑	E	TO3	CØ
35	1723-0605†	854m$	85 Ø§	§J	20 †	5.0	70 †	7.0†	60 ☑		4.0Ø	5.0	20 #		30M§Δ	200m#	250nØ☑	E	TO3	CØ
36	1723-0610†	854m$	85 Ø§	§J	20 †	5.0	70 †	7.0†	60 ☑		4.0Ø	10	20 #		30M§Δ	125m#	300nØ☑	E	TO3	CØ
37	1723-0805†	854m$	85 Ø§	§J	20 †	5.0	90 †	7.0†	80 ☑		4.0Ø	5.0	20 #		30M§Δ	200m#	250nØ☑	E	TO3	CØ
38	1723-0810†	854m$	85 Ø§	§J	20 †	5.0	90 †	7.0†	80 ☑		4.0Ø	10	20 #		30M§Δ	125m#	300nØ☑	E	TO3	CØ
39	1723-1005†	854m$	85 Ø§	§J	20 †	5.0	110 †	7.0†	100 ☑		4.0Ø	5.0	20 #		30M§Δ	200m#	250nØ☑	E	TO3	CØ
40	1723-1010†	854m$	85 Ø§	§J	20 †	5.0	110 †	7.0†	100 ☑		4.0Ø	10	20 #		30M§Δ	125m#	300nØ☑	E	TO3	CØ
41	1723-1205†	854m$	85 Ø§	§J	20 †	5.0	130 †	7.0†	120 ☑		4.0Ø	5.0	20 #		30M§Δ	200m#	250nØ☑	E	TO3	CØ
42	1723-1210†	854m$	85 Ø§	§J	20 †	5.0	130 †	7.0†	120 ☑		4.0Ø	10	20 #		30M§Δ	125m#	300nØ☑	E	TO3	CØ
43	1723-1405†	854m$	85 Ø§	§J	20 †	5.0	150 †	7.0†	140 ☑		4.0Ø	5.0	20 #		30M§Δ	200m#	250nØ☑	E	TO3	CØ
44	1723-1410†	854m$	85 Ø§	§J	20 †	5.0	150 †	7.0†	140 ☑		4.0Ø	10	20 #		30M§Δ	125m#	300nØ☑	E	TO3	CØ
45	1723-1605†	854m$	85 Ø§	§J	20 †	5.0	170 †	7.0†	160 ☑		4.0Ø	5.0	20 #		30M§Δ	200m#	250nØ☑	E	TO3	CØ
46	1723-1610†	854m$	85 Ø§	§J	20 †	5.0	170 †	7.0†	160 ☑		4.0Ø	10	20 #		30M§Δ	125m#	300nØ☑	E	TO3	CØ
47	1723-1805†	854m$	85 Ø§	§J	20 †	5.0	190 †	7.0†	180 ☑		4.0Ø	5.0	20 #		30M§Δ	200m#	250nØ☑	E	TO3	CØ
48	1723-1810†	854m$	85 Ø§	§J	20 †	5.0	190 †	7.0†	180 ☑		4.0Ø	10	20 #		30M§Δ	125m#	300nØ☑	E	TO3	CØ
49	1743-0620†	854m$	85 Ø	§J	40	10	60	7.0	60 ☑	5.0m#	2.5Ø	20	20 #		30M§Δ		450 ØØ	E	TO3	CØ
50	1743-0810†	854m$	85 Ø	§J	40	10	80	7.0	80 ☑	5.0m#	2.0Ø	10	20 #		30M§Δ		300nØ☑	E	TO3	CØ
51	1743-0830†	854m$	85 Ø	§J	40	10	80	7.0	80 ☑	5.0m#	3.0Ø	30	20 #		30M§Δ		500nØ☑	E	TO3	CØ
52	1743-1020†	854m$	85 Ø	§J	40	10	100	7.0	100 ☑	5.0m#	2.5Ø	20	20 #		30M§Δ		450nØ☑	E	TO3	CØ
53	1743-1210†	854m$	85 Ø	§J	40	10	120	7.0	120 ☑	5.0m#	2.0Ø	10	20 #		30M§Δ		300nØ☑	E	TO3	CØ
54	1743-1230†	854m$	85 Ø	§J	40	10	120	7.0	120 ☑	5.0m#	3.0Ø	30	20 #		30M§Δ		500nØ☑	E	TO3	CØ
55	1743-1420†	854m$	85 Ø	§J	40	10	140	7.0	140 ☑	5.0m#	2.5Ø	20	20 #		30M§Δ		450nØ☑	E	TO3	CØ
56	1743-1610†	854m$	85 Ø	§J	40	10	160	7.0	160 ☑	5.0m#	2.0Ø	10	20 #		30M§Δ		300nØ☑	E	TO3	CØ
57	1743-1630†	854m$	150 Ø	§J	40 #	10 #	160	7.0	160 ☑	5.0m#	3.0Ø	30	20 #		30M§Δ		500nØ☑	EM	TO3	CØ
58	1763-0420	854m	150 Ø	§J	25	10	50	7.0	40 ☑	20m#	4.0Ø	20	20 #		40M§Δ			EM	TO3	
59	1763-0610†	854m$	85 Ø	§J	40 #†	10	60 †	7.0†	60 ☑	500u#♦	2.0Ø	10	20 #		30M§Δ		300nØ☑	E	TO3	CØ
60	1763-0620†	854m$	85 Ø	§J	40 #†	10	60 †	7.0†	60 ☑	500u#♦	2.5Ø	20	20 #		30M§Δ		450nØ☑	E	TO3	CØ
61	1763-0630†	854m$	85 Ø	§J	40 #†	10	60 †	7.0†	60 ☑	500u#♦	3.0Ø	30	20 #		30M§Δ		500nØ☑	E	TO3	CØ
62	1763-0810†	854m$	85 Ø	§J	40 #†	10	80 †	7.0†	80 ☑	500u#♦	2.0Ø	10	20 #		30M§Δ		300nØ☑	E	TO3	CØ
63	1763-0820†	854m$	85 Ø	§J	40 #†	10	80 †	7.0†	80 ☑	500u#♦	2.5Ø	20	20 #		30M§Δ		450nØ☑	E	TO3	CØ
64	1763-0830†	854m$	85 Ø	§J	40 #†	10	80 †	7.0†	80 ☑	500u#♦	3.0Ø	30	20 #		30M§Δ		500nØ☑	E	TO3	CØ
65	1763-1010†	854m$	85 Ø	§J	40 #†	10	100 †	7.0†	100 ☑	500u#♦	2.0Ø	10	20 #		30M§Δ		300nØ☑	E	TO3	CØ
66	1763-1020†	854m$	85 Ø	§J	40 #†	10	100 †	7.0†	100 ☑	500u#♦	2.5Ø	20	20 #		30M§Δ		450nØ☑	E	TO3	CØ
67	1763-1030†	854m$	85 Ø	§J	40 #†	10	100 †	7.0†	100 ☑	500u♦#	3.0Ø	30	20 #		30M§Δ		500nØ☑	E	TO3	CØ
68	1763-1210†	854m$	85 Ø	§J	40 #†	10	120 †	7.0†	120 ☑	500u#♦	2.0Ø	10	20 #		30M§Δ		300nØ☑	E	TO3	CØ
69	1763-1220†	854m$	85 Ø	§J	40 #†	10	120 †	7.0†	120 ☑	500u#♦	2.5Ø	20	20 #		30M§Δ		450nØ☑	E	TO3	CØ
70	1763-1230†	854m$	85 Ø	§J	40 #†	10	120 †	7.0†	120 ☑	500u#♦	3.0Ø	30	20 #		30M§Δ		500nØ☑	E	TO3	CØ
71	1763-1410†	854m$	85 Ø	§J	40 #†	10	140 †	7.0†	140 ☑	500u#♦	2.0Ø	10	20 #		30M§Δ		300nØ☑	E	TO3	CØ
72	1763-1420†	854m$	85 Ø	§J	40 #†	10	140 †	7.0†	140 ☑	500u#♦	2.5Ø	20	20 #		30M§Δ		450nØ☑	E	TO3	CØ
73	1763-1430†	854m$	85 Ø	§J	40 #†	10	140 †	7.0†	140 ☑	500u#♦	3.0Ø	30	20 #		30M§Δ		500nØ☑	E	TO3	CØ
74	1763-1610†	854m$	85 Ø	§J	40 #†	10	160 †	7.0†	160 ☑	500u#♦	2.0Ø	10	20 #		30M§Δ		300nØ☑	E	TO3	CØ
75	1763-1620†	854m$	85 Ø	§J	40 #†	10	160 †	7.0†	160 ☑	500u#♦	2.5Ø	20	20 #		30M§Δ		450nØ☑	E	TO3	CØ
76	1763-1630	854m$	85 §	§J	40 #	5.0	160	7.0	160 ☑	500u#	3.0Ø	30	20 #		30M§Δ		500nØ☑	EMΔ	TO3	
77	1763-1810†	854m$	85 Ø	§J	40 #†	10	180 †	7.0†	180 ☑	500u#♦	2.0Ø	10	20u#		30M§Δ		300nØ☑	E	TO3	CØ
78	1763-1820†	854m$	85 Ø	§J	40 #†	10	180 †	7.0†	180 ☑	500u#♦	2.5Ø	20	20 #		30M§Δ		450nØ☑	E	TO3	CØ
79	1763-1830	854m$	85 Ø	§J	40 #	5.0	180	7.0	180 ☑	500m#	3.0Ø	30	20 #		30M§Δ		500nØ☑	EMΔ	TO3	CØ
80	1843-2005†	854m$	85 Ø§	§J	30 #†	10 #	200 †	7.0†	200 ☑	5.0m♦#	5.0Ø	5.0	20 #		25M§Δ	200m#	500nØ	EM	TO3	CØ
81	1843-2010†	854m$	85 Ø§	§J	30 #†	10 #	200 †	7.0†	200 ☑	5.0m♦#	5.0Ø	10	15 #		25M§Δ	125m#	500nØ	EM	TO3	CØ
82	1843-2020†	854m$	85 Ø§	§J	30 #†	10 #	200 †	7.0†	200 ☑	5.0m♦#	5.0Ø	20	10 #		25M§Δ	87m#	500nØ	EM	TO3	CØ
83	1843-2205†	854m$	85 Ø§	§J	30 #†	10 #	225 †	7.0†	225 ☑	5.0m♦#	5.0Ø	5.0	20 #		25M§Δ	200m#	500nØ	EM	TO3	CØ
84	1843-2210†	854m$	85 Ø§	§J	30 #†	10 #	225 †	7.0†	225 ☑	5.0m♦#	5.0Ø	10	15 #		25M§Δ	125m#	500nØ	EM	TO3	CØ
85	1843-2220†	854m$	85 Ø§	§J	30 #†	10 #	225 †	7.0†	225 ☑	5.0m♦#	5.0Ø	20	10 #		25M§Δ	87m#	500nØ	EM	TO3	CØ
86	1843-2505†	854m$	85 Ø§	§J	30 #†	10 #	250 †	7.0†	250 ☑	5.0m♦#	5.0Ø	5.0	20 #		25M§Δ	200m#	500nØ	EM	TO3	CØ
87	1843-2510†	854m$	85 Ø§	§J	30 #†	10 #	250 †	7.0†	250 ☑	5.0m♦#	5.0Ø	10	15 #		25M§Δ	125m#	500nØ	EM	TO3	CØ
88	1843-2520†	854m$	85 Ø§	§J	30 #†	10 #	250 †	7.0†	250 ☑	5.0m♦#	5.0Ø	20	10 #		25M§Δ	87m#	500nØ	EM	TO3	CØ
89	1843-2705†	854m$	85 Ø§	§J	30 #†	10 #	275 †	7.0†	275 ☑	5.0m♦#	5.0Ø	5.0	20 #		25M§Δ	200m#	500nØ	EM	TO3	CØ
90	1843-2710†	854m$	85 Ø§	§J	30 #†	10 #	275 †	7.0†	275 ☑	5.0m♦#	5.0Ø	10	15 #		25M§Δ	125m#	500nØ	EM	TO3	CØ
91	1843-2720†	854m$	85 Ø§	§J	30 #†	10 #	275 †	7.0†	275 ☑	5.0m♦#	5.0Ø	20	10 #		25M§Δ	87m#	500nØ	EM	TO3	CØ
92	1843-3005†	854m$	85 Ø§	§J	30 #†	10 #	300 †	7.0†	300 ☑	5.0m♦#	5.0Ø	5.0	20 #		25M§Δ	200m#	500nØ	EM	TO3	CØ
93	1843-3010†	854m$	85 Ø§	§J	30 #†	10 #	300 †	7.0†	300 ☑	5.0m♦#	5.0Ø	10	15 #		25M§Δ	125m#	500nØ	EM	TO3	CØ
94	1843-3020†	854m$	85 Ø§	§J	30 #†	10 #	300 †	7.0†	300 ☑	5.0m♦#	5.0Ø	20	10 #		25M§Δ	87m#	500nØ	EM	TO3	CØ
95	1843-3205†	854m$	85 Ø§	§J	30 #†	10 #	325 †	7.0†	325 ☑	5.0m♦#	5.0Ø	5.0	20 #		25M§Δ	200m#	500nØ	EM	TO3	CØ
96	1843-3210†	854m$	85 Ø§	§J	30 #†	10 #	325 †	7.0†	325 ☑	5.0m♦#	5.0Ø	10	15 #		25M§Δ	125m#	500nØ	EM	TO3	CØ
97	1843-3220†	854m$	85 Ø§	§J	30 #†	10 #	325 †	7.0†	325 ☑	5.0m♦#	5.0Ø	20	10 #		25M§Δ	87m#	500n	EM	TO3	CØ
98	1843-3505†	854m$	85 Ø§	§J	30 #†	10 #	350 †	7.0†	350 ☑	5.0m♦#	5.0Ø	5.0	20 #		25M§Δ	200m#	500nØ	EM	TO3	CØ
99	1843-3510†	854m$	85 Ø§	§J	30 #†	10 #	350 †	7.0†	350 ☑	5.0m♦#	5.0Ø	10	15 #		25M§Δ	125m#	500nØ	EM	TO3	CØ
100	1843-3520†	854m$	85 Ø§	§J	30 #†	10 #	350 †	7.0†	350 ☑	5.0m♦#	5.0Ø	20	10 #		25M§Δ	87m#	500nØ	EM	TO3	CØ
101	1843-3705†	854m$	85 Ø§	§J	30 #†	10 #	350 †	7.0†	375 ☑	5.0m♦#	5.0Ø	5.0	20 #		25M§Δ	200m#	500nØ	EM	TO3	CØ
102	1843-3710†	854m$	85 Ø§	§J	30 #†	10 #	350 †	7.0†	375 ☑	5.0m♦#	5.0Ø	10	15 #		25M§Δ	125m#	500nØ	EM	TO3	CØ
103	1843-3720†	854m$	85 Ø	§J	30 #	10 #	375	7.0	375 ☑	3.0mØ	5.0Ø	20	10 #		25M§Δ		500nØ	EM	TO3	CØ
104	40411	854m	150 Ø	§J	30	15		4.0	90 §	500u*	4.0Ø	4.0	35	100	800k§	200m		D	TO3	CØ
105#	BDY37	854m	150 Ø	§J	16	4.0	160	7.0	140	2.0mØ♦	4.0Ø	8.0	15	60 #		175m#		H	TO3	CØ
106#	BDY76	854m	150 Ø	§J	20 †	5.0	100 †	7.0†	60	5.0mØ♦	4.0Ø	10	40	120 #	800k§Δ			HΔ	TO3	CØ
107#	BDY77	854m	150 Ø	§J	16 †	4.0	150 †	7.0†	120	2.0m#♦	4.0Ø	8.0	40	120 #	800k§Δ			HΔ	TO3	CØ
108#	BUX10†	854m	150 Ø	§J	25	5.0	160	7.0	125 ☑	5.0mΔ	2.0Ø	10	20	60	8.0M§Δ	60m	1.5uØ☑	DM	TO3	CØ
109▼#	BUX10A	854m	150 Ø	§J	25	5.0	170	7.0	125	5.0mΔ	2.0Ø	10	20	60	50M§Δ	60m	1.5uØ☑		TO3	CØ
110#	BUX11†	854m	150 Ø	§J	20	4.0	250	7.0	200 ☑	5.0mΔ	2.0Ø	6.0	20	60	8.0M§Δ	100m	1.5uØ☑	DM	TO3	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C O A D E
1	2N5331†	1.0 $	100 Ø	§J	30	5.0	150	8.0	90		2.0Ø	10	40	120	80M§△	60m	350nØ		TO63	A
2	2N5387	1.0	3.5	§J	7.5	3.0	200	10	200	1.0m§♦	5.0Ø	2.0	25	100 #	15M§△				TO61	AØ
3	2N5388	1.0	3.5	§J	7.5	3.0	250	10	250	1.0m§♦	5.0Ø	2.0	25	100 #	15M§△				TO61	AØ
4	2N5389	1.0	3.5	§J	7.5	3.0	300	10	300	1.0m§♦	5.0Ø	2.0	25	100 #	15M§△				TO61	AØ
5	2N5539†	1.0 $	100 Ø	§J	20	2.0	175	7.0	130	500nØ	5.0Ø	10	25	75 #	20M§△		500n		TO63	AØ
6	2N5559†	1.0 $	100 Ø	§J	10	5.0	150	7.0	120 #		2.0Ø	4.0	12	60	800k§△	190m	6.0uØ		TO3	CØ
7	2N5584†	1.0 $	100 Ø	§J	30	5.0	225	8.0	180	50m#	3.0Ø	10	40	120	70M§△		350nØ		TO63	AØ
8	2N5733†	1.0 #	150 Ø	§J	30	6.0	100 †	5.0†	80	1.0m§♦	2.0Ø	10	30	300	30M§△	60m	700n☑		TO63	AØ
9	2N5734†	1.0 #	150 Ø	§J	30	6.0	100 †	5.0†	80	1.0m§♦	2.0Ø	10	30	300	30M§△	60m	700n☑		TO3	AØ
10	2N5929†	1.0 $	100 Ø	§J	30	10	90 †	7.0†	80 #		4.0Ø	10	20	100 #	30M§☑		500n☑		F4f	CØ
11	2N5930†	1.0 $	100 Ø	§J	30	10	130 †	7.0†	120 #		4.0Ø	10	20	100 #	30M§☑		500n☑		F4f	CØ
12	2N5931†	1.0 $	100 Ø	§J	30	10	170 †	7.0†	160 #		4.0Ø	10	20	100 #	30M§☑		500n☑		F4f	CØ
13	2N5932†	1.0 $	100 Ø	§J	30	10	70 †	7.0†	60 #		4.0Ø	10	20	100 #	30M§☑		600n☑		F4f	CØ
14	2N5933†	1.0 $	100 Ø	§J	30	10	110 †	7.0†	100 #		4.0Ø	20	20	100 #	30M§☑		600n☑		F4f	CØ
15	2N5934†	1.0 $	100 Ø	§J	30	10	150 †	7.0†	140 #		4.0Ø	20	20	100 #	30M§☑		600n☑		F4f	CØ
16	2N5935†	1.0 $	100 Ø	§J	30	10	90 †	7.0†	80 #		4.0Ø	30	20	100 #	30M§☑		700n☑		F4f	CØ
17	2N5936†	1.0 $	100 Ø	§J	30	10	130 †	7.0†	120 #		4.0Ø	30	20	100 #	30M§☑		700n☑		F4f	CØ
18	2N5937†	1.0 $	100 Ø	§J	30	10	170 †	7.0†	160 #		4.0Ø	30	20	100 #	30M§☑		600n§☑		F4f	CØ
19	2N5957†	1.0 $	100 Ø§	§J	20	2.0	100 †	10†	100	500u♦	10Ø	10	30	120 #	10M§△	90m#	1.1uØ☑		TO61	AØ
20	JAN2N5957†	1.0 #	150 Ø	§J	20		100	10	100 *	100u§	10Ø	10	30	120 #	10M§△	90m#	1.1uØ☑		T50a	AØ
21	2N5959†	1.0 $	100 Ø§	§J	20	2.0	100 †	10†	100	500u♦	10Ø	10	30	120 #	10M§△	90m#	1.1uØ☑		TO61	A
22	JAN2N5959†	1.0 #	150 Ø	§J	20		100	10	100 *	100u§	10Ø	10	30	120 #	10M§△	90m#	1.1uØ☑		T50a	A
23	2N6249†	1.0 $	100 Ø	§J	10 †	10	300 †	6.0†	225 #		3.0Ø	10	10	50	2.5M§△	100m	2.0u		TO3	CØ
24	2N6250†	1.0 $	100 Ø	§J	10 †	10	375 †	6.0†	300 #		3.0Ø	10	8.0	50	2.5M§△	150m	2.0u		TO3	CØ
25	2N6251†	1.0 $	100 Ø	§J	10 †	10	450 †	6.0†	375 #		3.0Ø	10	6.0	50	2.5M§△	150m	2.0u		TO3	CØ
26	2N6546†	1.0	175 Ø	§J	15 †	10	650 †	9.0†	300 ☑		2.0Ø	10	6.0	30	6.0M§△	150m	1.0u☑		TO3	CØ
27	2N6547†	1.0	175 Ø	§J	15 †	10	850 †	9.0†	400 ☑		2.0Ø	10	6.0	30	6.0M§△	150m	1.0u☑		TO3	CØ
28	2N6562†	1.0 $	175 Ø	§J	10 †	2.0	450 †	5.0†	450 ☑		2.0Ø	5.0	10	40 #	10M§△	150m	500n☑		TO61	A
29	2N6563†	1.0 $	175 Ø	§J	10 †	2.0	300 †	5.0†	300 ☑		2.0Ø	10	10	50 #	15M§△	150m	500n☑		TO61	A
30#	2SC1142†	1.0	125 Ø	§J	10	3.0	800	6.0	400	3.0m	5.0Ø	5.0	10	25 #	4.0M§	400m	1.5uØ☑	D	TO3	CØ
31#	2SC1143†	1.0	125 Ø	§J	10	3.0	600	6.0	300	3.0m	5.0Ø	5.0	10	25 #	4.0M§	400m	1.5uØ☑	D	TO3	CØ
32#	2SC1582	1.0	140	§J	13		65	4.0	35	6.0mØ	10Ø	10	10	100	50M§△			EP	W72	
33#	2SD54	1.0	150 Ø	§J	10	4.0	100	12	50	200uØ	4.0Ø	5.0	12	48	1.2M†			D	TO36	
34#	2SD132	1.0	150 Ø	§J	20	4.0	100	6.0	65	5.0mØ	5.0Ø	20	20	100 #		50m		EM	F10a	CØ
35#	2SD171	1.0	125 Ø	§J	3.5		450		150	100uØ	3.0Ø	1.0	30	100				DM	TO3	CØ
36#	2SD211†	1.0	100 Ø	§S	10	4.0	60	7.0	40	50uØ	4.0Ø	5.0	15	30 Ø	8.0M†	500m	1.2u☑	D	TO3	CØ
37#	2SD212†	1.0	100 Ø	§S	10	4.0	90	7.0	60	30uØ	4.0Ø	5.0	15	30 Ø	8.0M†	500m	1.2u☑	D	TO3	CØ
38#	2SD213†	1.0	100 Ø	§S	10	4.0	110	7.0	80	30uØ	4.0Ø	5.0	15	30 Ø	8.0M†	500m	1.2u☑	D	TO3	CØ
39#	2SD214†	1.0	100 Ø	§S	10	4.0	130	7.0	100	30uØ	4.0Ø	5.0	15	30 Ø	8.0M†	500m	1.2u☑	D	TO3	CØ
40#	2SD293	1.0	125 Ø	§J	10	3.0	800	10	400	3.0m	5.0Ø	5.0	14	27 #		400m		D	TO3	CØ
41#	2SD294	1.0	125 Ø	§J	10	3.0	800	10	400	3.0m	5.0Ø	5.0	28	70 #		400m		D	TO3	CØ
42#	2SD533	1.0	100 Ø	♦J	10	2.5	270	15	90 Ø	50uØ	2.0	1.0	45	220	8.0M§			DM	TO3	K
43#	2SD538A	1.0	150	§J	10		500	7.0	400	100u	5.0Ø	5.0	20		15 §	200m		DM	TO3	CØ
44#	2SD539A	1.0	150	§J	10		400	7.0	350	500u	5.0Ø	5.0	20		15 §	200m		DM	TO3	CØ
45▼#	2SD676	1.0	125 Ø	§J	12	2.0	160	5.0	160	1.0mØ	5.0Ø	1.0	35 *	200 *				D	TO3	CØ
46#	108T2†	1.0	175 Ø	§J	30 †	15	120 †	10†	80	1.0m♦	4.0Ø	10	20	60 #	30M§	140m	200nØ	DM	TO3	CØ
47#	109T2†	1.0	175 Ø	§J	30 †	15	160 †	10†	125	1.0mØ♦	4.0Ø	10	20	60 #	30M§	140m	200nØ	DM	TO3	CØ
48	1743-0610†	1.0	175 Ø	§J	30 †	10	70 †	7.0†	60 ☑		4.0Ø	10	20	100 #	30M§△	100m#	500n☑	E	TO3	CØ
49	1743-0630†	1.0	175 Ø	§J	30 †	10	70 †	7.0†	60 ☑		4.0Ø	30	20	100 #	30M§△	33m#	700n☑	E	TO3	CØ
50	1743-0820†	1.0	175 Ø	§J	30 †	10	90 †	7.0†	80 ☑		4.0Ø	20	20	100 #	30M§△	50m#	600n☑	E	TO3	CØ
51	1743-1010†	1.0	175 Ø	§J	30 †	10	110 †	7.0†	100 ☑		4.0Ø	10	20	100 #	30M§△	100m#	500n☑	E	TO3	CØ
52	1743-1030†	1.0	175 Ø	§J	30 †	10	110 †	7.0†	100 ☑		4.0Ø	30	20	100 #	30M§△	33m#	700n☑	E	TO3	CØ
53	1743-1220†	1.0	175 Ø	§J	30 †	10	130 †	7.0†	120 ☑		4.0Ø	20	20	100 #	30M§△	50m#	600n☑	E	TO3	CØ
54	1743-1410†	1.0	175 Ø	§J	30 †	10	150 †	7.0†	140 ☑		4.0Ø	10	20	100 #	30M§△	100m#	500n☑	E	TO3	CØ
55	1743-1430†	1.0	175 Ø	§J	30 †	10	150 †	7.0†	140 ☑		4.0Ø	30	20	100 #	30M§△	33m#	700n☑	E	TO3	CØ
56	1743-1620†	1.0	175 Ø	§J	30 †	10	170 †	7.0†	160 ☑		4.0Ø	20	20	100 #	30M§△	50m#	600n☑	E	TO3	CØ
57	1743-1810†	1.0	175 Ø	§J	30 †	10	190 †	7.0†	180 ☑		4.0Ø	10	20	100 #	30M§△	100m#	500n☑	E	TO3	CØ
58	1743-1820†	1.0	175 Ø	§J	30 †	10	190 †	7.0†	180 ☑		4.0Ø	20	20	100 #	30M§△	50m#	600n☑	E	TO3	CØ
59	1743-1830†	1.0	175 Ø	§J	30 †	10	190 †	7.0†	180 ☑		4.0Ø	30	20	100 #	300M§△	33m#	700n☑	E	TO3	CØ
60	1748-0610†	1.0 $	100 Ø	§J	40	10	60	7.0	60 ☑	5.0m#	2.0Ø	10	20 #		30M§△		300nØ☑	E	TO63	A
61	1748-0630†	1.0 $	100 Ø	§J	40	10	60	7.0	60 ☑	5.0m#	3.0Ø	30	20 #		30M§△		500nØ☑	E	TO63	A
62	1748-0810†	1.0 $	100 Ø	§J	40	10	80	7.0	80 ☑	5.0m#	2.0Ø	10	20 #		30M§△		300nØ☑	E	TO63	A
63	1748-0820†	1.0	200 Ø	§J	20 †	10	90 †	7.0†	80 ☑		4.0Ø	20	20	100 #	30M§△	50m#	600n☑	E	TO63	A
64	1748-0830†	1.0 $	100 Ø	§J	40	10	80	7.0	80 ☑	5.0m#	3.0Ø	30	20 #		30M§△		500nØ☑	E	TO63	A
65	1748-1010†	1.0 $	100 Ø	§J	40	10	100	7.0	100 ☑	5.0m#	2.0Ø	10	20 #		30M§△		300nØ☑	E	TO63	A
66	1748-1030†	1.0 $	100 Ø	§J	40	10	100	7.0	100 ☑	5.0m#	3.0Ø	30	20 #		30M§△		500nØ☑	E	TO63	A
67	1748-1210†	1.0 $	100 Ø	§J	40	10	120	7.0	120 ☑	5.0m#	2.0Ø	10	20 #		30M§△		300nØ☑	E	TO63	A
68	1748-1220†	1.0	200 Ø	§J	20 †	10	130 †	7.0†	80 ☑		4.0Ø	20	20	100 #	30M§△	50m#	600n☑	E	TO63	A
69	1748-1230†	1.0 $	100 Ø	§J	40	10	120	7.0	120 ☑	5.0m#	3.0Ø	30	20 #		30M§△		500nØ☑	E	TO63	A
70	1748-1410†	1.0 $	100 Ø	§J	40	10	140	7.0	140 ☑	5.0m#	2.0Ø	10	20 #		30M§△		300nØ☑	E	TO63	A
71	1748-1430†	1.0 $	100 Ø	§J	40	10	140	7.0	140 ☑	5.0m#	3.0Ø	30	20 #		30M§△		500nØ☑	E	TO63	A
72	1748-1610†	1.0 $	100 Ø	§J	40	10	160	7.0	160 ☑	5.0m#	2.0Ø	10	20 #		30M§△		300nØ☑	E	TO63	A
73	1748-1620†	1.0	200 Ø	§J	20 †	10	170 †	7.0†	80 ☑		4.0Ø	20	20	100 #	30M§△	50m#	600n☑	E	TO63	A
74	1748-1630†	1.0 $	175 Ø	§J	50 #	10 #	160	7.0	160 ☑	5.0m#	3.0Ø	30	20 #		30M§△		500nØ☑	EM	TO63	A
75	1748-1810†	1.0 $	100 Ø	§J	40	10	180	7.0	180 ☑	5.0m#	2.0Ø	10	20 #		30M§△		300nØ☑	E	TO63	A
76	1748-1820†	1.0	200 Ø	§J	20 †	10	190 †	7.0†	80 ☑		4.0Ø	20	20	100 #	30M§△	50m#	600n☑	E	TO63	A
77	1748-1830†	1.0 $	175 Ø	§J	40 #	10 #	180	7.0	180 ☑	5.0m#	3.0Ø	30	20 #		30M§△		500nØ☑	EM	TO63	A
78	1768-0610†	1.0 $	100 Ø	§J	40 #†	10	60 †	7.0†	60 ☑	500u#♦	2.0Ø	10	20 #		30M§△		300nØ☑	E	TO63	A
79	1768-0620†	1.0 $	100 Ø	§J	40 #†	10	60 †	7.0†	60 ☑	500u#♦	2.5Ø	20	20 #		30M§△		450nØ☑	E	TO63	A
80	1768-0630†	1.0 $	100 Ø	§J	40 #†	10	60 †	7.0†	60 ☑	500u#♦	3.0Ø	30	20 #		30M§△		500nØ☑	E	TO63	A
81	1768-0810†	1.0 $	100 Ø	§J	40 #†	10	80 †	7.0†	80 ☑	500u#♦	2.0Ø	10	20 #		30M§△		300nØ☑	E	TO63	A
82	1768-0820†	1.0 $	100 Ø	§J	40 #†	10	80 †	7.0†	80 ☑	500u#♦	2.5Ø	20	20 #		30M§△		450nØ☑	E	TO63	A
83	1768-0830†	1.0 $	100 Ø	§J	40 #†	10	80 †	7.0†	80 ☑	500u#♦	3.0Ø	30	20 #		30M§△		500nØ☑	E	TO63	A
84	1768-1010†	1.0 $	100 Ø	§J	40 #†	10	100 †	7.0†	100 ☑	500u#♦	2.0Ø	10	20 #		30M§△		300nØ☑	E	TO63	A
85	1768-1020†	1.0 $	100 Ø	§J	40 #†	10	100 †	7.0†	100 ☑	500u#♦	2.5Ø	20	20 #		30M§△		450nØ☑	E	TO63	A
86	1768-1030†	1.0 $	100 Ø	§J	40 #†	10	100 †	7.0†	100 ☑	500u#♦	3.0Ø	30	20 #		30M§△		500nØ☑	E	TO63	A
87	1768-1210†	1.0 $	100 Ø	§J	40 #†	10	120 †	7.0†	120 ☑	500u#♦	2.0Ø	10	20 #		30M§△		300nØ☑	E	TO63	A
88	1768-1220†	1.0 $	100 Ø	§J	40 #†	10	120 †	7.0†	120 ☑	500u#♦	2.5Ø	20	20 #		30M§△		450nØ☑	E	TO63	A
89	1768-1230†	1.0 $	100 Ø	§J	40 #†	10	120 †	7.0†	120 ☑	500u#♦	3.0Ø	30	20 #		30M§△		500nØ☑	E	TO63	A
90	1768-1410†	1.0 $	100 Ø	§J	40 #†	10	140 †	7.0†	140 ☑	500u#♦	2.0Ø	10	20 #		30M§△		300nØ☑	E	TO63	A
91	1768-1420†	1.0 $	100 Ø	§J	40 #†	10	140 †	7.0†	140 ☑	500u#♦	2.5Ø	20	20 #		30M§△		450nØ☑	E	TO63	A
92	1768-1430†	1.0 $	100 Ø	§J	40 #†	10	140 †	7.0†	140 ☑	500u#♦	3.0Ø	30	20 #		30M§△		500nØ☑	E	TO63	A
93	1768-1610†	1.0 $	100 Ø	§J	40 #†	10	160 †	7.0†	160 ☑	500u#♦	2.0Ø	10	20 #		30M§△		300nØ☑	E	TO63	A
94	1768-1620†	1.0 $	100 Ø	§J	40 #†	10	160 †	7.0†	160 ☑	500u#♦	2.5Ø	20	20 #		30M§△		450nØ☑	E	TO63	A
95	1768-1630	1.0 $	100 §	§J	40 #	5.0	160	7.0	160 ☑	500u#	3.0Ø	30	20 #		30M§△		500nØ☑	EM△	TO63	
96	1768-1810†	1.0 $	100 Ø	§J	40 #†	10	180 †	7.0†	180 ☑	500u#♦	2.0Ø	10	20 #		30M§△		300nØ☑	E	TO63	A
97	1768-1820†	1.0 $	100 Ø	§J	40 #†	10	180 †	7.0†	180 ☑	500u#♦	2.5Ø	20	20 #		30M§△		450nØ☑	E	TO63	A
98	1768-1830	1.0 $	100 Ø	§J	40 #	5.0	180	7.0	180 ☑	500m#	3.0Ø	30	20 #		30M§△		500nØ☑	EM△	TO63	
99▼#	41012	1.0	175 Ø	§J	20	5.0	120	7.0•	80	10m	4.0Ø	10	20	60	40M§△	75m	500nØ	E	TO3	CØ
100▼#	41013	1.0	175 Ø	§J	20	5.0	160	7.0	125	10m	4.0Ø	10	20	60	40M§△	75m	500nØ	E	TO3	CØ
101#	BD249	1.0	3.0	§S	25	5.0		5.0	45	700u§	4.0Ø	5.0	20		3.0M§△	120m	300nØ	D△	B19	D
102#	BD249A	1.0	3.0	§S	25	5.0		5.0	60	700u§	4.0Ø	5.0	20		3.0M§△	120m	300nØ	D△	B19	D
103#	BD249B	1.0	3.0	§S	25	5.0		5.0	80	700u§	4.0Ø	5.0	20		3.0M§△	120m	300nØ	D△	B19	D
104#	BD249C	1.0	3.0	§S	25	5.0		5.0	100	700u§	4.0Ø	5.0	20		3.0M§△	120m	300nØ	D△	B19	D
105#	BDY64	1.0	4.0	§J	30	10	120	8.0	100	2.0m△	4.0Ø	15	20	100	30M§			PE	TO63	A
106#	BLY40	1.0	125 Ø	§C	10	5.0	100	6.0	100 §	30m	10	3.0	15	60	40M§△	1.0		E	T38	
107	DTC401	1.0	75 Ø	J	2.0	1.0		5.0	400	500u△	5.0Ø	500m	20	100		1.6		D	Y204a	CØ
108	DTC409	1.0	125 Ø	J	7.0	3.0	400	7.0	400	250u△	5.0Ø	1.0	15		2.5m△	1.2	400n	D	TO3	CØ
109	DTC413	1.0	75 Ø	J	2.0	1.0		5.0	400	250u△	5.0Ø	500m	20	80	4.0m△	1.6		D	Y204a	CØ
110	DTC430	1.0	125 Ø	J	7.0	3.0	400	7.0	400	2.5m△	5.0Ø	2.5	15	45	2.5m△	360m	350n	D	TO3	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AE XM P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	LCEOADE
1	SDT8755	1.0	175		20	4.0	120	8.0	100	10u	5.0	10	30	90	25M			PL	TO63	
2	SDT8756	1.0	175		20	4.0	140	8.0	120	10u	5.0	10	30	90	25M			PL	TO63	
3	SDT8757	1.0	175		20	4.0	170	8.0	150	10u	5.0	10	30	90	25M			PL	TO63	
4	SDT8758	1.0	175		20	4.0	200	8.0	180	10u	5.0	10	30	90	25M			PL	TO63	
5	SDT8801	1.0 $	100 Ø	§J	20		200	8.0	200	1.0uØ	5.0Ø	10	15	60 #	30M§Δ			PL	TO63	A
6	SDT8801F	1.0	100 Ø$	§J	20		200	8.0	200 ☑	1.0u	5.0Ø	10	15	60				PL	T118a	
7	SDT8802	1.0 $	100 Ø	§J	20		225	8.0	225	1.0uØ	5.0Ø	10	15	60 #	30M§Δ			PL	TO63	A
8	SDT8802F	1.0	100 Ø$	§J	20		225	8.0	225 ☑	1.0u	5.0Ø	10	15	60				PL	T118a	
9	SDT8803	1.0 $	100 Ø	§J	20		250	8.0	250	1.0uØ	5.0Ø	10	15	60 #	30M§Δ			PL	TO63	A
10	SDT8803F	1.0	100 Ø$	§J	20		250	8.0	250 ☑	1 0u	5.0Ø	10	15	60				PL	T118a	
11	SDT8804	1.0 $	100 Ø	§J	20		275	8.0	275	1.0uØ	5.0Ø	10	15	60 #	30M§Δ			PL	TO63	A
12	SDT8804F	1.0	100 Ø$	§J	20		275	8.0	275 ☑	1.0u	5.0Ø	10	15	60				PL	T118a	
13	SDT8805	1.0 $	100 Ø	§J	20		300	8.0	300	1.0uØ	5.0Ø	10	15	60 #	30M§Δ			PL	TO63	A
14	SDT8805F	1.0	100 Ø$	§J	20		300	8.0	300 ☑	1.0u	5.0Ø	10	15	60				PL	T118a	
15	SDT9640	1.0	175		50		225	10	200	1.0u	10Ø	40	10	40	10M	45m		DPL	TO3	CØ
16	SDT9641	1.0	175		50		250	10	225	1.0u	10Ø	40	10	40	10M	45m		DPL	TO3	CØ
17	SDT9642	1.0	175		50		275	10	250	1.0u	10Ø	40	10	40	10M	45m		DPL	TO3	CØ
18	SDT9643	1.0	175		50		300	10	275	1.0u	10Ø	40	10	40	10M	45m		DPL	TO3	CØ
19	SDT9644	1.0	175		50		325	10	300	1.0u	10Ø	40	10	40	10M	45m		DPL	TO3	CØ
20	SDT9680	1.0	175		100		80	10	60	1.0u	5.0Ø	70	15		10M	14m		DPL	TO3	CØ
21	SDT9681	1.0	175		100		100	10	80	1.0u	5.0Ø	70	15		10M	14m		DPL	TO3	CØ
22	SDT9682	1.0	175		100		120	10	100	1.0u	5.0Ø	70	15		10M	14m		DPL	TO3	CØ
23	SDT9683	1.0	175		100		140	10	120	1.0u	5.0Ø	70	15		10M	14m		DPL	TO3	CØ
24	SDT9684	1.0	175		100		160	10	140	1.0u	5.0Ø	70	15		10M	14m		DPL	TO3	CØ
25	SDT12201	1.0	100 Ø$	§J	10	1.0	200	5.0	200 ☑	1.0m	5.0Ø	10	10	50	25M§		200n#		T39b	A
26	SDT12202	1.0	100 Ø$	§J	10	1.0	250	5.0	250 ☑	1.0m	5.0Ø	10	10	50	25M§		200n#		T39b	A
27	SDT12203	1.0	100 Ø$	§J	10	1.0	300	5.0	300 ☑	1.0m	5.0Ø	10	10	50	25M§		200n#		T39b	A
28	SDT13201	1.0	100 Ø$	§J	10	1.0	300	5.0	300 ☑	1.0m	5.0Ø	5.0	10	40	15M§		350n#		T39b	A
29	SDT13202	1.0	100 Ø$	§J	10	1.0	350	5.0	350 ☑	1.0m	5.0Ø	5.0	10	40	15M§		350n#		T39b	A
30	SDT13203	1.0	100 Ø$	§J	10	1.0	400	5.0	400 ☑	1.0m	5.0Ø	5.0	10	40	15M§		350n#		T39b	A
31	SDT13204	1.0	100 Ø$	§J	10	1.0	450	5.0	450 ☑	1.0m	5.0Ø	5.0	10	40	15M§		350n#		T39b	A
32	SDT13205	1.0	100 Ø$	§J	10	1.0	500	5.0	500 ☑	1.0m	5.0Ø	5.0	10	40	15M§		350n#		T39b	A
33	SDT96301	1.0	100 Ø$	§J	100	15	80	10	60	1.0uØ	5.0Ø	90	5.0					PL	TO3	
34	SDT96302	1.0	100 Ø$	§J	120	15	120	10	100	1.0uØ	5.0Ø	90	5.0					PL	TO3	
35	SDT96303	1.0	100 Ø$	§J	120	15	160	10	140	1.0uØ	5.0Ø	90	5.0					PL	TO3	
36	SDT96304	1.0	100 Ø$	§J	50	10	225	10	200	1.0uØ	10Ø	40	8.0	40				PL	TO3	
37	SDT96305	1.0	100 Ø$	§J	50	10	275	10	250	1.0uØ	10Ø	40	8.0	40				PL	TO3	
38	SDT96306	1.0	100 Ø$	§J	50	10	325	10	300	1.0uØ	10Ø	40	8.0	40				PL	TO3	
39	SPC401	1.0	100 Ø	§J	2.0	1.0	400	5.0	300	500uΔ	5.0Ø	500m	20	100	4.0M	1.6		D	TO3	
40	SPC413	1.0	75 Ø	§J	2.0	1.0	400	5.0	325	500u	5.0Ø	500m	20	80	6.0M	1.6		D	TO3	
41	SSP3300†	1.0 $	100 Ø$	§J	20			8.0	80	10u§	5.0Ø	10	40	120	40M§Δ	50m	500n☐	PL	TO63	
42	SSP3301†	1.0 $	100 Ø$	§J	20			8.0	60	10u§	5.0Ø	2.0	40		40M§Δ	50m	500nØ☐	PL	TO63	
43	ST17060†	1.0 #	150 Ø#	§J	30		125	10	80 *	100uØ	10Ø	10	30	120 #	10M§Δ		500nØ	PL	TO63	
44	ST17061†	1.0 #	150 Ø#	§J	30		145	10	100 *	100uØ	10Ø	10	30	120 #	10M§Δ		500nØ	PL	TO63	
45	ST17062†	1.0 #	150 Ø#	§J	30		170	10	120 *	100uØ	10Ø	10	30	120 #	10M§Δ		500nØ	PL	TO63	
46	ST18007	1.0	100 Ø	§J	20		375	10	375		10	10	20		10M	150m		PE	TO63	
47	ST18008	1.0	100 Ø	§J	20		300	10	300		10	10	20		10M	150m		PE	TO63	
48	ST18009	1.0	100 Ø	§J	20		250	10	250		10	10	20		10M	150m		PE	TO63	
49	ST18010	1.0	100 Ø	§J	20		200	10	200		10	10	20		10M	150m		PE	TO63	
50	STA8341	1.0 $	100 Ø	§J	10	10	450	5.0	400	10m#	5.0Ø	10	10	100	2.5M§Δ	100m	2.0mØ	EMΔ	TO3	CØ
51	STC1726	1.0 $	200 Ø	§J	20	4.5		10	80	2.0m	3.0	10	20	80		100m		ME	T18	
52	STC1728	1.0 $	200 Ø	§J	30	4.5		10	80	2.0m	3.0	20	10	40		80m		ME	T18	
53	STC1731	1.0 $	200 Ø	§J	20	4.5		10	100	2.0m	3.0	10	20	80		100m		ME	T18	
54	STC1733	1.0 $	200 Ø	§J	30	4.5		10	100	2.0m	3.0	20	10	40		80m		ME	T18	
55	STC1736	1.0 $	200 Ø	§J	20	4.5		10	150	2.0m	3.0	10	20	80		100m		ME	T18	
56	STC1738	1.0	200 Ø	§J	30	4.5		10	150	2.0m	3.0	20	10	40		80m		ME	T18	
57	STS401	1.0	75 Ø	§J	2.0	1.0		5.0	400	500uΔ	5.0Ø	500m	20	100	4.0M§	1.6		EM	TO3	CØ
58	STS413	1.0	75 Ø	§J	2.0	1.0	400	5.0	400	500u#†	5.0Ø	500m	20	80	6.0M§	1.6	400nØ	EMΔ	TO3	CØ
59	SVT200-05†	1.0		§J	10	2.0	225	8.0	200	100uØ	5.0Ø	5.0	15		100m§Δ	200m	250nØ	PL	TO3	CØ
60	SVT200-10†	1.0		§J	20	4.0	225	8.0	200	100uØ	5.0Ø	10	15		75m§Δ	100m	250nØ	PL	TO3	CØ
61	SVT200-20†	1.0		§J	30	6.0	225	8.0	200	100uØ	5.0Ø	20	15		60M§Δ	50m	300nØ	PL	TO3	CØ
62	SVT250-05†	1.0		§J	10	2.0	275	8.0	250	100uØ	5.0Ø	5.0	15		100M§Δ	200m	250nØ	PL	TO3	CØ
63	SVT250-10†	1.0		§J	20	4.0	275	8.0	250	100uØ	5.0Ø	10	15		75M§Δ	100m	250nØ	PL	TO3	CØ
64	SVT250-20†	1.0		§J	30	6.0	275	8.0	250	100uØ	5.0Ø	20	15		60M§Δ	50m	300nØ	PL	TO3	CØ
65	SVT300-05†	1.0		§J	10	2.0	325	8.0	300	100uØ	5.0Ø	5.0	15		100M§Δ	200m	250nØ	PL	TO3	CØ
66	SVT300-10†	1.0		§J	20	4.0	325	8.0	300	100uØ	5.0Ø	10	15		75M§Δ	100m	250nØ	PL	TO3	CØ
67	SVT300-20†	1.0		§J	30	6.0	325	8.0	300	100uØ	5.0Ø	20	15		60M§Δ	50m	300nØ	PL	TO3	CØ
68	TIP35†	1.0	3.5	§J	25 †	5.0	40 †	5.0†	40	1.0mΔ♦	4.0Ø	15	10	50 #	3.0M§Δ		1.2uØ	DM	B19	BØ
69	TIP35A†	1.0	3.5	§J	25 †	5.0	60 †	5.0†	60	1.0mΔ♦	4.0Ø	15	10	50 #	3.0M§Δ		1.2uØ	DM	B19	BØ
70	TIP35B†	1.0	3.5	§J	25 †	5.0	80 †	5.0†	80	1.0mΔ♦	4.0Ø	15	10	50 #	3.0M§Δ		1.2uØ	DM	B19	BØ
71	TIP35C†	1.0	3.5	§J	25 †	5.0	100 †	5.0†	100	1.0mΔ♦	4.0Ø	15	10	50 #	3.0M§Δ		1.2uØ	DM	B19	BØ
72	TIP55A†	1.0 $	3.0	§J	7.5 †	4.0	350 †	8.0†	250	100u*♦	2.0Ø	1.0	10	100 #		250m#	130n		B3	BØ
73	TIP56A†	1.0 $	3.0	§J	7.5 †	4.0	400 †	8.0†	300	100u*♦	2.0Ø	1.0	10	100 #		250m#	130n		B3	BØ
74	TIP57A†	1.0 $	3.0	§J	7.5 †	4.0	450 †	8.0†	350	100u*♦	2.0Ø	1.0	10	100 #		250m#	130n		B3	BØ
75	TIP58A†	1.0 $	3.0	§J	7.5 †	4.0	500 †	8.0†	400	100u*♦	2.0Ø	1.0	10	100 #		250m#	130n		B3	BØ
76	TIP535	1.0	5.0	§J	7.5 †	3.0	300 †	5.0†	200	1.0m§♦	4.0Ø	5.0	20	100 #	10M§Δ			DMΔ	TO3	CØ
77	TIP536	1.0	5.0	§J	7.5 †	3.0	400 †	5.0†	300	1.0m§♦	4.0Ø	5.0	20	100 #	10M§Δ			DMΔ	TO3	CØ
78	TIP537	1.0	5.0	§J	7.5 †	3.0	500 †	5.0†	400	1.0m§♦	4.0Ø	5.0	20	100 #	10M§Δ			DMΔ	TO3	CØ
79	TIP550	1.0 ♦	60 Ø	§J	3.0 †	1.5	1.2k†	5.0†	600						7.0M§		600n#	Δ	TO3	CØ
80	TIP551	1.0 ♦	60 Ø	§J	3.0 †	1.5	1.4k†	5.0†	600						7.0M§		600n#	Δ	TO3	CØ
81	TIP554	1.0	100 Ø	§J	3.0	600m	400	5.0	300		10Ø	300m	30	150	2.5M§Δ	500m	250nØ		TO3	CØ
82	TIP555	1.0	100 Ø	§J	3.0	600m	450	5.0	350		10Ø	300m	30	150	2.5M§Δ	500m	250nØ		TO3	CØ
83	TIP556	1.0	100 Ø	§J	3.0	600m	500	5.0	400		10Ø	300m	30	150	2.5M§Δ	500m	250nØ		TO3	CØ
84	TIP558	1.0 $	5.5	§J	7.5 †	4.0	350 †	8.0†	250	100u*♦	2.0Ø	1.0	10	100 #		250m#	130n		TO3	CØ
85	TIP559	1.0 $	5.5	§J	7.5 †	4.0	400 †	8.0†	300	100u*♦	2.0Ø	1.0	10	100 #		250m#	130n		TO3	CØ
86	TIP560	1.0 $	5.5	§J	7.5 †	4.0	450 †	8.0†	350	100u*♦	2.0Ø	1.0	10	100 #		250m#	130n		TO3	CØ
87	TIP561	1.0 $	5.5	§J	7.5 †	4.0	500 †	8.0†	400	100u*♦	2.0Ø	1.0	10	100 #		250m#	130n		TO3	CØ
88	TIP562	1.0 $	5.5	§J	10 †	2.0	300 †	8.0†	300	100u♦	4.0Ø	1.0	20 #			120m	500n		TO3	CØ
89	TIP563	1.0 $	5.5	§J	10 †	2.0	400 †	8.0†	400	100u♦	4.0Ø	1.0	20 #			120m	500n		TO3	CØ
90	XGSR3025†	1.0 $	75 Ø	§J	5.0	1.0	300	8.0	250	250uØ	5.0Ø	3.0	10 #		25M§Δ	266m#	100nØ☐	DPL	TO3	CØ
91	XGSR3030†	1.0 $	75 Ø	§J	5 0	1 0	350	8.0	300	250uØ	5.0Ø	3 0	10 #		25M§Δ	266m#	100nØ☐	DPL	TO3	CØ
92	XGSR3035†	1.0 $	75 Ø	§J	5.0	1.0	400	8.0	350	250uØ	5.0Ø	3.0	10 #		25M§Δ	266m#	100nØ☐	DPL	TO3	CØ
93	XGSR5025†	1.0 $	75 Ø	§J	7.0	2.0	300	8.0	250	250uØ	5.0Ø	5.0	10 #		25M§Δ	160m#	100nØ☐	DPL	TO3	CØ
94	XGSR5030†	1.0 $	75 Ø	§J	7.0	2.0	350	8.0	300	250uØ	5.0Ø	5.0	10 #		25M§Δ	160m#	100nØ☐	DPL	TO3	CØ
95	XGSR5035†	1.0 $	75 Ø	§J	7.0	2.0	400	8.0	350	250uØ	5.0Ø	5.0	10 #		25M§Δ	160m#	100nØ☐	DPL	TO3	CØ
96	2N2815	1.1	200 Ø	§J	20		80		80		3.0Ø	10	10	50		150m		ME	T18	
97	2N2816	1.1	200 Ø	§J	20		100		100		3.0Ø	10	10	50		150m		ME	T18	
98	2N2817	1.1	200 Ø	§J	20		150		150		3.0Ø	10	10	50		150m		ME	T18	
99	2N2818	1.1	200 Ø	§J	20		200		200		3.0Ø	10	10	50		150m		ME	T18	
100	2N2819	1.1	200 Ø	§J	25		80		80		3.0Ø	15	10	50		100m		ME	T18	
101	2N2820	1.1	200 Ø	§J	25		100		100		3.0Ø	15	10	50		100m		ME	T18	
102	2N2821	1.1	200 Ø	§J	25		150		150		3.0Ø	15	10	50		100m		ME	T18	
103	2N2822	1.1	200 Ø	§J	25		200		200		3.0Ø	15	10	50		100m		ME	T18	
104	2N2823	1.1	200 Ø	§J	30		80		80		3.0Ø	20	10	40		60m		ME	T18	
105	2N2824	1.1	200 Ø	§J	30		100		100		3.0Ø	20	10	40		60m		ME	T18	
106	2N2825	1.1	200 Ø	§J	30		150		150		3.0Ø	20	10	40		550m		ME	T18	
107	2N5301	1.1	200 Ø	§J	30	7.5	40 †	5.0†	40	1.0m♦	3.0Ø	15	15	60 #	2.0M§Δ	75m	1.0u☐		F4j	CØ
108	2N5302	1.1	200 Ø	§J	30	7.5	60 †	5.0†	60	1.0m♦	3.0Ø	15	15	60 #	2.0M§Δ	100m	1.0u☐		F4j	CØ
109	JAN2N5302†	1.1	200 Ø	§A	30	7.5	60	5.0	60	1.0m	2.0Ø	15	15	60 #	2.0M§Δ		1.0uØ☐		TO3	CØ
110	2N5303	1.1	200 Ø	§J	20	7.5	80 †	5.0†	80	1.0m♦	2.0Ø	15	15	60 #	2.0M§Δ	100m	1.0u☐		F4j	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D E
1	TIP538	1.2	5.0	§J	15 †	5.0	300 †	5.0†	200	1.0m§♦	4.0Ø	7.5	20	100 #	10M§△			DM△	TO3	CØ
2	TIP539	1.2	5.0	§J	15 †	5.0	400 †	5.0†	300	1.0m§♦	4.0Ø	7.5	20	100 #	10M§△			DM△	TO3	CØ
3	TIP540	1.2	5.0	§J	15 †	5.0	500 †	5.0†	400	1.0m§♦	4.0Ø	7.5	20	100 #	10M§△			DM△	TO3	CØ
4	2N3429†	1.3 ☑	150 Ø	§C	5.0	3.0	50	25	50 ☑	2.0m#	2.0Ø	5.0	10	35	20k△	200m	5.0uØ		T52	B
5	2N3430†	1.3 ☑	150 Ø	§C	5.0	3.0	100	25	100 ☑	2.0m#	2.0Ø	5.0	10	35	20k△	200m	5.0uØ		T52	B
6	2N3431†	1.3 ☑	150 Ø	§C	5.0	3.0	150	25	150 ☑	2.0m#	2.0Ø	5.0	10	35	20k△	200m	5.0uØ		T52	B
7	2N3432†	1.3 ☑	150 Ø	§C	5.0	3.0	200	25	200 ☑	2.0m#	2.0Ø	5.0	10	35	20k△	200m	5.0uØ		T52	B
8	2N3433†	1.3 ☑	150 Ø	§C	5.0	3.0	250	25	250 ☑	2.0m#	2.0Ø	5.0	10	35	20k△	200m	5.0uØ		T52	B
9	2N3902†	1.3 §	100 Ø	§J	2.5	1.0	400 †	5.0†	400	250u#♦	5.0Ø	1.0	30	90	40k△	1.0	800nØ☑		TO3	CØ
10♦	JAN2N3902†	1.3 §	4.0	§S	3.5	2.0	700	5.0	400	250u△	5.0Ø	1.0	30	90 #	2.5M§△	800m	800nØ☑		TO3	CØ
11	2N5157†	1.3 §	100 Ø	§J	3.5	2.0	700	6.0	500	500u#	5.0Ø	1.0	30	90	2.8M§△	710m	800nØ		TO3	CØ
12♦	JAN2N5157†	1.3 §	4.0	§	3.5	2.0	700	6.0	500	250u△	5.0Ø	1.0	30	90 #	2.5M§△	800m	800nØ☑		TO3	CØ
13#	2SC1299†	1.3	200 Ø	§J	30		300	5.0	200	50uØ	5.0Ø	10	40 Ø			100m	1.5uØ	DM△	F1a	CØ
14#	2SC1300†	1.3	200 Ø	§J	30		500	5.0	400	50uØ	5.0Ø	15	25 Ø			100m	2.7uØ	DM△	F1a	CØ
15#	2SC1301†	1.3	200 Ø	§J	30		250	5.0	200	200uØ	5.0Ø	10 Ø	40 Ø		25M§	100m	1.5uØ	ME△	F1a	CØ
16#	2SC1302†	1.3	200 Ø	§J	30		400	5.0	400	200uØ	5.0Ø	15 Ø	25 Ø		20M§	100m	2.7uØ	ME△	F1a	CØ
17#	2SC1401†	1.3	200 Ø	§J	30		400	5.0	350	200uØ	5.0Ø	15 Ø	25 Ø		20M§	100m	2.7uØ	ME△	F1a	CØ
18#	2SD363	1.3	200 Ø	§J	30	10	250	6.0	200	100uØ	5.0Ø	15	15	100 #		100m#	300nØ	DM△	F27a	AØ
19▼#	2SD364†	1.3	200 Ø	§J	30		450	6.0	400	100uØ	5.0Ø	15	10	80		100m		ME	F27a	CØ
20#	2SD372	1.3	200 Ø	§J	60 #	10	150	6.0	100	100u	5.0Ø	15	20	100 #			2.0ut☑	EM	F10a	CØ
21#	2SD373	1.3	200 Ø	§J	60 #	10	250	6.0	200	100u	5.0Ø	15	20	100 #		75m	2.0ut☑	ME	F10a	CØ
22#	2SD373A	1.3	200 Ø	§J	60 #	10	350	6.0	300	100u	5.0Ø	15	15	100 #		100m	2.0ut☑	ME	F10a	CØ
23#	2SD374	1.3	200 Ø	§J	60 #	10	450	6.0	400	100u	5.0Ø	15	10	80 #		100m	2.0ut☑	ME	F10a	CØ
24#	2SD457	1.3	200 Ø	§J	55	15	250	6.0	200	100uØ	5.0Ø	50	20 #	100 #				ME	F10a	CØ
25#	2SD540†	1.3	200 Ø	§J	30		200	5.0	200	2.0mØ	5.0Ø	10	40 Ø		25M§	133m	700n	DM△	F1a	CØ
26#	2SD541†	1.3	200 Ø	§J	30		200	5.0	150	2.0mØ	5.0Ø	10	40 Ø		25M§	133m	700n	DM△	F1a	CØ
27#	2SD542†	1.3	200 Ø	§J	30		400	5.0	400	2.0mØ	5.0Ø	15	25 Ø		20M§	133m	1.0u	DM△	F1a	CØ
28#	2SD543†	1.3	200 Ø	§J	30		400	5.0	350	2.0mØ	5.0Ø	15	25 Ø		20M§	133m	1.0u	DM△	F1a	CØ
29#	2SD630	1.3	200	§J	30		50	5.0	40	100u	5.0Ø	15	25 Ø		800k§	100m		D	TO3	CØ
30	153-04†	1.3	200 Ø	§J	7.5	3.0	65	25	40	10m#	4.0Ø	1.5	15		500k§	866m	3.0uØ	A	T52	A
31	153-04SPC†	1.3	200mØ	§J	7.5	3.0	65	25	40	10m#	4.0Ø	1.5	15			866m	3.0uØ	A	T52	
32	153-05	1.3	200 Ø	§J	7.5	3.0	75	25	50	10m#	4.0Ø	1.5	15		500k§	866m	3.0uØ	A	T52	A
33	153-06†	1.3	200 Ø	§J	7.5	3.0	85	25	60	10m#	4.0Ø	1.5	15		500k§	866m	3.0uØ	A	T52	A
34	153-06SPC†	1.3	200mØ	§J	7.5	3.0	85	25	60	10m#	4.0Ø	1.5	15			866m	3.0uØ	A	T52	
35	153-07	1.3	200 Ø	§J	7.5	3.0	95	25	70	10m#	4.0Ø	1.5	15		500k§	866m	3.0uØ	A	T52	A
36	153-08†	1.3	200 Ø	§J	7.5	3.0	105	25	80	10m#	4.0Ø	1.5	15		500k§	866m	3.0uØ	A	T52	A
37	153-08SPC†	1.3	200 Ø	§J	7.5	3.0	105	25	80	10m#	4.0Ø	1.5	15			866m	3.0uØ	A	T52	
38	153-09	1.3	200 Ø	§J	7.5	3.0	115	25	90	10m#	4.0Ø	1.5	15		500k§	866m	3.0uØ	A	T52	A
39	153-10†	1.3	200 Ø	§J	7.5	3.0	125	25	100	10m#	4.0Ø	1.5	15		500k§	866m	3.0uØ	A	T52	A
40	153-10SPC†	1.3	200 Ø	§J	7.5	3.0	125	25	100	10m#	4.0Ø	1.5	15			866m	3.0uØ	A	T52	
41	153-12†	1.3	200 Ø	§J	7.5	3.0	145	25	120	10m#	4.0Ø	1.5	15		500k§	866m	3.0uØ	A	T52	A
42	153-12SPC†	1.3	200 Ø	§J	7.5	3.0	145	25	120	10m#	4.0Ø	1.5	15			866m	3.0uØ	A	T52	
43	153-14†	1.3	200 Ø	§J	7.5	3.0	165	25	140	10m#	4.0Ø	1.5	15		500k§	866m	3.0uØ	A	T52	A
44	153-14SPC†	1.3	200 Ø	§J	7.5	3.0	165	25	140	10m#	4.0Ø	1.5	15			866m	3.0uØ	A	T52	
45	153-16†	1.3	200 Ø	§J	7.5	3.0	185	25	160	10m#	4.0Ø	1.5	15		500k§	866m	3.0uØ	A	T52	A
46	153-16SPC†	1.3	200 Ø	§J	7.5	3.0	185	25	160	10m#	4.0Ø	1.5	15			866m	3.0uØ	A	T52	
47	153-18†	1.3	200 Ø	§J	7.5	3.0	205	25	180	10m#	4.0Ø	1.5	15		500k§	866m	3.0uØ	A	T52	A
48	153-18SPC†	1.3	200 Ø	§J	7.5	3.0	205	25	180	10m#	4.0Ø	1.5	15			866m	3.0uØ	A	T52	
49	153-20†	1.3	200 Ø	§J	7.5	3.0	225	25	200	10m#	4.0Ø	1.5	15		500k§	866m	3.0uØ	A	T52	A
50	153-20SPC†	1.3	200 Ø	§J	7.5	3.0	225	25	200	10m#	4.0Ø	1.5	15			866m	3.0uØ	A	T52	
51	153-22†	1.3	200 Ø	§J	7.5	3.0	245	25	220	10m#	4.0Ø	1.5	15		500k§	866m	3.0uØ	A	T52	A
52	153-22SPC†	1.3	200 Ø	§J	7.5	3.0	245	25	220	10m#	4.0Ø	1.5	15			866m	3.0uØ	A	T52	
53	153-24SPC†	1.3	200 Ø	§J	7.5	3.0	265	25	240	10m#	4.0Ø	1.5	15			866m	3.0uØ		T58	
54	153-26SPC†	1.3	200 Ø	§J	7.5	3.0	285	25	260	10m#	4.0Ø	1.5	15			866m	3.0uØ		T58	
55	153-28SPC†	1.3	200 Ø	§J	7.5	3.0	305	25	280	10m#	4.0Ø	1.5	15			866m	3.0uØ		T58	
56	153-30SPC†	1.3	200 Ø	§J	7.5	3.0	325	25	300	10m#	4.0Ø	1.5	15			866m	3.0uØ		T58	
57	154-04†	1.3	200 Ø	§J	7.5	3.0	65	25	40	10m#	4.0Ø	1.5	25		500k§	833m	3.0uØ	A	T52	A
58	154-04SPC†	1.3	200 Ø	§J	7.5	3.0	65	25	40	10m#	4.0Ø	1.5	25			833m	3.0uØ	A	T52	
59	154-05	1.3	200 Ø	§J	7.5	3.0	75	25	50	10m#	4.0Ø	1.5	25		500k§	833m	3.0uØ	A	T52	A
60	154-06†	1.3	200 Ø	§J	7.5	3.0	85	25	60	10m#	4.0Ø	1.5	25		500k§	833m	3.0uØ	A	T52	A
61	154-06SPC†	1.3	200 Ø	§J	7.5	3.0	85	25	60	10m#	4.0Ø	1.5	25			833m	3.0uØ	A	T52	
62	154-07	1.3	200 Ø	§J	7.5	3.0	95	25	70	10m#	4.0Ø	1.5	25		500k§	833m	3.0uØ	A	T52	A
63	154-08†	1.3	200 Ø	§J	7.5	3.0	105	25	80	10m#	4.0Ø	1.5	25		500k§	833m	3.0uØ	A	T52	A
64	154-08SPC†	1.3	200 Ø	§J	7.5	3.0	105	25	80	10m#	4.0Ø	1.5	25			833m	3.0uØ	A	T52	
65	154-09	1.3	200 Ø	§J	7.5	3.0	115	25	90	10m#	4.0Ø	1.5	25		500k§	833m	3.0uØ	A	T52	A
66	154-10†	1.3	200 Ø	§J	7.5	3.0	125	25	100	10m#	4.0Ø	1.5	25		500k§	833m	3.0uØ	A	T52	A
67	154-10SPC†	1.3	200 Ø	§J	7.5	3.0	125	25	100	10m#	4.0Ø	1.5	25			833m	3.0uØ	A	T52	
68	154-12†	1.3	200 Ø	§J	7.5	3.0	145	25	120	10m#	4.0Ø	1.5	25		500k§	833m	3.0uØ	A	T52	A
69	154-12SPC†	1.3	200 Ø	§J	7.5	3.0	145	25	120	10m#	4.0Ø	1.5	25			833m	3.0uØ	A	T52	
70	154-14†	1.3	200 Ø	§J	7.5	3.0	165	25	140	10m#	4.0Ø	1.5	25		500k§	833m	3.0uØ	A	T52	A
71	154-14SPC†	1.3	200 Ø	§J	7.5	3.0	165	25	140	10m#	4.0Ø	1.5	25			833m	3.0uØ	A	T52	
72	154-16†	1.3	200 Ø	§J	7.5	3.0	185	25	160	10m#	4.0Ø	1.5	25		500k§	833m	3.0uØ	A	T52	A
73	154-16SPC†	1.3	200 Ø	§J	7.5	3.0	185	25	160	10m#	4.0Ø	1.5	25			833m	3.0uØ	A	T52	
74	154-18†	1.3	200 Ø	§J	7.5	3.0	205	25	180	10m#	4.0Ø	1.5	25		500k§	833m	3.0uØ	A	T52	A
75	154-18SPC†	1.3	200 Ø	§J	7.5	3.0	205	25	180	10m#	4.0Ø	1.5	25			833m	3.0uØ	A	T52	
76	154-20†	1.3	200 Ø	§J	7.5	3.0	225	25	200	10m#	4.0Ø	1.5	25		500k§	833m	3.0uØ	A	T52	A
77	154-20SPC†	1.3	200 Ø	§J	7.5	3.0	225	25	200	10m#	4.0Ø	1.5	25			833m	3.0uØ	A	T52	
78	154-22†	1.3	200 Ø	§J	7.5	3.0	245	25	220	10m#	4.0Ø	1.5	25		500k§	833m	3.0uØ	A	T52	A
79	154-22SPC†	1.3	200 Ø	§J	7.5	3.0	245	25	220	10m#	4.0Ø	1.5	25			833m	3.0uØ	A	T52	
80	154-24SPC†	1.3	200 Ø	§J	7.5	3.0	265	25	240	10m#	4.0Ø	1.5	25			833m	3.0uØ		T58	
81	154-26SPC†	1.3	200 Ø	§J	7.5	3.0	285	25	260	10m#	4.0Ø	1.5	25			833m	3.0uØ		T58	
82	154-28SPC†	1.3	200 Ø	§J	7.5	3.0	305	25	280	10m#	4.0Ø	1.5	25			833m	3.0uØ		T58	
83	154-30SPC†	1.3	200 Ø	§J	7.5	3.0	325	25	300	10m#	4.0Ø	1.5	25			833m	3.0uØ		T58	
84#	BLX15	1.3	195 Ø	§J	6.5		110	4.0	53		6.0Ø	1.4	15	50	275M§	1.4		†	T94	V
85	DTC402	1.3	100 Ø	J	3.5	2.0		5.0	400	250u△						666m	1.2u#	D△	Y204a	CØ
86	DTC403	1.3	100 Ø	J	3.5	2.0	400	5.0	400	250u△						571m	700n#	D△	Y204a	CØ
87	DTC410	1.3	100 Ø	J	3.5	2.0	200	5.0	200	250u△	5.0Ø	1.0	30	90	2.0m△	800m	250n	D	Y204a	CØ
88	DTC411	1.3	100 Ø	J	3.5	2.0	300	5.0	300	250u△	5.0Ø	1.0	30	90	2.0m△	800m		D	Y204a	CØ
89	DTC423	1.3	100 Ø	J	3.5	2.0	400	5.0	400	250u△	5.0Ø	1.0	30	90	2.5m△	800m			TO3	CØ
90	DTC424	1.3	100 Ø	J	3.5	2.0		6.0	500	250u△	5.0Ø	1.0	30	90	2.5m△	800m			TO3	CØ
91	DTC425	1.3	100 Ø	J	3.5	2.0		6.0	500	250u△	5.0Ø	1.0	30	90	2.5m△	800m			TO3	CØ
92	DTS103†	1.3	125 Ø	§J	15	5.0	80	5.0	60	250u△	1.5Ø	5.0	20	55	4.0M§△	180m	550n	DM	TO3	CØ
93	DTS104†	1.3	125 Ø	§J	15	5.0	80	5.0	60	250u△	1.5Ø	5.0	50	120	4.0M§△	150m	550n	DM	TO3	CØ
94	DTS105†	1.3	125 Ø	§J	15	5.0	100	5.0	80	250u△	1.5Ø	5.0	20	55	4.0M§△	180m	550n	DM	TO3	CØ
95	DTS106†	1.3	125 Ø	§J	15	5.0	110	5.0	90	250u△	1.5Ø	5.0	20	55	4.0M§△	180m	550n	DM	TO3	CØ
96	DTS107†	1.3	125 Ø	§J	15	5.0	120	5.0	100	250u△	1.5Ø	5.0	20	55	4.0M§△	180m	550n	DM	TO3	CØ
97	DTS108	1.3	125	§J	15	5.0		5.0	100	250u△	1.5Ø	5.0	50	120	4.0M§△	150m	550n	DM△	TO3	CØ
98	DTS402	1.3 §	100 Ø	§J	3.5	2.0		5.0	400	250u△						666m	1.2u#☑	D△	Y204a	CØ
99	DTS403	1.3 §	100 Ø	§J	3.5	2.0	400	5.0	400	250u△						571m	700n#☑	D△	Y204a	CØ
100	DTS409	1.3 §	100 Ø	§J	3.5	2.0	400	5.0	400	250u△	5.0Ø	1.0	15		2.2M§△	1.2		D△	Y204a	CØ
101	DTS410	1.3 §	100 Ø	§J	3.5	2.0	200	5.0	200	250u△	5.0Ø	1.0	30	90	2.0M§△	800m	250n	D△	Y204a	CØ
102	DTS411	1.3 §	100 Ø	§J	3.5	2.0	300	5.0	300	250u△	5.0Ø	1.0	30	90	2.0M§△	800m		D△	Y204a	CØ
103	DTS423	1.3 §	100 Ø	§J	3.5	2.0	400	5.0	400	250u△	5.0Ø	1.0	30	90	2.5M§△	800m		D△	Y204a	CØ
104	DTS423M†	1.3	100 Ø	§J	3.5	2.0	400	5.0	400	250u△	5.0Ø	1.0	30	90	3.0M§△	800m	800nØ	D	TO3	CØ
105	DTS424	1.3 §	100 Ø	§J	3.5	2.0		6.0	500	250u△	5.0Ø	1.0	30	90	2.5M§△	800m		D△	Y204a	CØ
106	DTS425	1.3 §	100 Ø	§J	3.5	2.0		6.0	500	250u△	5.0Ø	1.0	30	90	2.5M§△	800m		D△	Y204a	CØ
107	DTS431M†	1.3 ☑	125 Ø	§J	5.0	2.0	400	5.0	400	2.5m△	5.0Ø	2.5	15	35	2.5M§△	280m	800nØ☑	D△	Y204a	CØ
108	MJ410	1.3 §	100 Ø	§J	5.0	2.0	200	5.0	200	250u△	5.0Ø	1.0	30	90	2.5M§△	800m			TO3	CØ
109	MJ411	1.3 §	100 Ø	§J	5.0	2.0	300	5.0	300	250u△	5.0Ø	1.0	30	90	2.5M§△	800m			TO3	CØ
110	MJ424	1.3 §	100 Ø	§J	5.0	2.0	700	6.0	350	250u△	5.0Ø	1.0	30	90	2.5M§△	800m			TO3	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	151-04SPC†	1.4	100 Ø	$J	6.0	3.0	65	25	40	10m#	4.0Ø	1.5	22 Ø			870m	7.0uØ☑	A	T1	B
2	151-05	1.4	100 Ø♦	$J	6.0	3.0	75	25	50	10m#	4.0Ø	1.5	11		500k§	866m	7.0uØ☑	A	T1	B
3	151-06†	1.4	100 Ø♦	$J	6.0	3.0	85	25	60	10m#	4.0Ø	1.5	11		500k§	866m	7.0uØ☑	A	T1	B
4	151-06SPC†	1.4	100 Ø	$J	6.0	3.0	85	25	60	10m#	4.0Ø	1.5	22 Ø			870m	7.0uØ☑	A	T1	B
5	151-07	1.4	100 Ø♦	$J	6.0	3.0	95	25	70	10m#	4.0Ø	1.5	11		500k§	866m	7.0uØ☑	A	T1	B
6	151-08†	1.4	100 Ø♦	$J	6.0	3.0	105	25	80	10m#	4.0Ø	1.5	11		500k§	866m	7.0uØ☑	A	T1	B
7	151-08SPC†	1.4	100 Ø	$J	6.0	3.0	105	25	80	10m#	4.0Ø	1.5	22 Ø			870m	7.0uØ☑	A	T1	B
8	151-09	1.4	100 Ø♦	$J	6.0	3.0	115	25	90	10m#	4.0Ø	1.5	11		500k§	866m	7.0uØ☑	A	T1	B
9	151-10†	1.4	100 Ø♦	$J	6.0	3.0	125	25	100	10m#	4.0Ø	1.5	11		500k§	866m	7.0uØ☑	A	T1	B
10	151-10SPC†	1.4	100 Ø	$J	6.0	3.0	125	25	100	10m#	4.0Ø	1.5	22 Ø			870m	7.0uØ☑	A	T1	B
11	151-12†	1.4	100 Ø♦	$J	6.0	3.0	145	25	120	10m#	4.0Ø	1.5	11		500k§	866m	7.0uØ☑	A	T1	B
12	151-12SPC†	1.4	100 Ø	$J	6.0	3.0	145	25	120	10m#	4.0Ø	1.5	22 Ø			870m	7.0uØ☑	A	T1	B
13	151-14†	1.4	100 Ø♦	$J	6.0	3.0	165	25	140	10m#	4.0Ø	1.5	11		500k§	866m	7.0uØ☑	A	T1	B
14	151-14SPC†	1.4	100 Ø	$J	6.0	3.0	165	25	140	10m#	4.0Ø	1.5	22 Ø			870m	7.0uØ☑	A	T1	B
15	151-16†	1.4	100 Ø♦	$J	6.0	3.0	185	25	160	10m#	4.0Ø	1.5	11		500k§	866m	7.0uØ☑	A	T1	B
16	151-16SPC†	1.4	100 Ø	$J	6.0	3.0	185	25	160	10m#	4.0Ø	1.5	22 Ø			870m	7.0uØ☑	A	T1	B
17	151-18†	1.4	100 Ø♦	$J	6.0	3.0	205	25	180	10m#	4.0Ø	1.5	11		500k§	866m	7.0uØ☑	A	T1	B
18	151-18SPC†	1.4	100 Ø	$J	6.0	3.0	205	25	180	10m#	4.0Ø	1.5	22 Ø			870m	7.0uØ☑	A	T1	B
19	151-20†	1.4	100 Ø♦	$J	6.0	3.0	225	25	200	10m#	4.0Ø	1.5	11		500k§	866m	7.0uØ☑	A	T1	B
20	151-20SPC†	1.4	100 Ø	$J	6.0	3.0	225	25	200	10m#	4.0Ø	1.5	22 Ø			870m	7.0uØ☑	A	T1	B
21	151-22†	1.4	100 Ø♦	$J	6.0	3.0	245	25	220	10m#	4.0Ø	1.5	11		500k§	866m	7.0uØ☑	A	T1	B
22	151-22SPC†	1.4	100 Ø	$J	6.0	3.0	245	25	220	10m#	4.0Ø	1.5	22 Ø			870m	7.0uØ☑	A	T1	B
23	151-26SPC†	1.4	100 Ø	$J	6.0	3.0	285	25	260	10m#	4.0Ø	1.5	22 Ø			870m	7.0uØ☑	F	T1	
24	151-28SPC†	1.4	100 Ø	$J	6.0	3.0	305	25	280	10m#	4.0Ø	1.5	22 Ø			870m	7.0uØ☑	F	T1	
25	152-04†	1.4	100 Ø♦	$J	6.0	3.0	65	25	40	10m#	4.0Ø	1.5	18		500k§	833m	7.0uØ☑	A	T1	B
26	152-04SPC†	1.4	100 Ø	$J	6.0	3.0	65	25	40	10m#	4.0Ø	1.5	37 Ø			830m	7.0uØ☑	A	T1	B
27	152-05	1.4	100 Ø♦	$J	6.0	3.0	75	25	50	10m#	4.0Ø	1.5	18		500k§	833m	7.0uØ☑	A	T1	B
28	152-06†	1.4	100 Ø♦	$J	6.0	3.0	85	25	60	10m#	4.0Ø	1.5	18		500k§	833m	7.0uØ☑	A	T1	B
29	152-06SPC†	1.4	100 Ø	$J	6.0	3.0	85	25	60	10m#	4.0Ø	1.5	37 Ø			830m	7.0uØ☑	A	T1	B
30	152-07	1.4	100 Ø♦	$J	6.0	3.0	95	25	70	10m#	4.0Ø	1.5	18		500k§	833m	7.0uØ☑	A	T1	B
31	152-08†	1.4	100 Ø♦	$J	6.0	3.0	105	25	80	10m#	4.0Ø	1.5	18		500k§	833m	7.0uØ☑	A	T1	B
32	152-08SPC†	1.4	100 Ø	$J	6.0	3.0	105	25	80	10m#	4.0Ø	1.5	37 Ø			830m	7.0uØ☑	A	T1	B
33	152-09	1.4	100 Ø♦	$J	6.0	3.0	115	25	90	10m#	4.0Ø	1.5	18		500k§	833m	7.0uØ☑	A	T1	B
34	152-10†	1.4	100 Ø♦	$J	6.0	3.0	125	25	100	10m#	4.0Ø	1.5	18		500k§	833m	7.0uØ☑	A	T1	B
35	152-10SPC†	1.4	100 Ø	$J	6.0	3.0	125	25	100	10m#	4.0Ø	1.5	37 Ø			830m	7.0uØ☑	A	T1	B
36	152-12†	1.4	100 Ø♦	$J	6.0	3.0	145	25	120	10m#	4.0Ø	1.5	18		500k§	833m	7.0uØ☑	A	T1	B
37	152-12SPC†	1.4	100 Ø	$J	6.0	3.0	145	25	120	10m#	4.0Ø	1.5	37 Ø			830m	7.0uØ☑	A	T1	B
38	152-14†	1.4	100 Ø♦	$J	6.0	3.0	165	25	140	10m#	4.0Ø	1.5	18		500k§	833m	7.0uØ☑	A	T1	B
39	152-14SPC†	1.4	100 Ø	$J	6.0	3.0	165	25	140	10m#	4.0Ø	1.5	37 Ø			830m	7.0uØ☑	A	T1	B
40	152-16†	1.4	100 Ø♦	$J	6.0	3.0	185	25	160	10m#	4.0Ø	1.5	18		500k§	833m	7.0uØ☑	A	T1	B
41	152-16SPC†	1.4	100 Ø	$J	6.0	3.0	185	25	160	10m#	4.0Ø	1.5	37 Ø			830m	7.0uØ☑	A	T1	B
42	152-18†	1.4	100 Ø♦	$J	6.0	3.0	205	25	180	10m#	4.0Ø	1.5	18		500k§	833m	7.0uØ☑	A	T1	B
43	152-18SPC†	1.4	100 Ø	$J	6.0	3.0	205	25	180	10m#	4.0Ø	1.5	37 Ø			830m	7.0uØ☑	A	T1	B
44	152-20†	1.4	100 Ø♦	$J	6.0	3.0	225	25	200	10m#	4.0Ø	1.5	18		500k§	833m	7.0uØ☑	A	T1	B
45	152-20SPC†	1.4	100 Ø	$J	6.0	3.0	225	25	200	10m#	4.0Ø	1.5	37 Ø			830m	7.0uØ☑	A	T1	B
46	152-22†	1.4	100 Ø♦	$J	6.0	3.0	245	25	220	10m#	4.0Ø	1.5	18		500k§	833m	7.0uØ☑	A	T1	B
47	152-22SPC†	1.4	100 Ø	$J	6.0	3.0	245	25	220	10m#	4.0Ø	1.5	37 Ø			830m	7.0uØ☑	A	T1	B
48	152-26SPC†	1.4	100 Ø	$J	6.0	3.0	285	25	260	10m#	4.0Ø	1.5	37 Ø			830m	7.0uØ☑	F	T1	
49	152-28SPC†	1.4	100 Ø	$J	6.0	3.0	305	25	280	10m#	4.0Ø	1.5	37 Ø			830m	7.0uØ☑	F	T1	
50	1776-0440†	1.4	150 Ø$	$J	75 †#	15	40 †	7.0†	40 ☑	2.0m#♦	3.0Ø	40	15		20M§Δ	37m	500nØ☑	E	TO63	A
51	1776-0460†	1.4	150 Ø$	$J	75 †#	15	40 †	7.0†	60 ☑	2.0m#♦	3.0Ø	40	15		20M§Δ	25m	600nØ☑	E	TO63	A
52	1776-0640†	1.4 $	150 Ø$	$J	75 †#	15 #	60 †	7.0†	60 ☑	2.0m#♦	3.0Ø	40	15		20M§Δ	37m	500nØ☑	EM	TO63	A
53	1776-0660†	1.4 $	150 Ø$	$J	75 †#	15 #	60 †	7.0†	60 ☑	2.0m#♦	3.0Ø	60	15		20M§Δ	25m	600nØ☑	EM	TO63	A
54	1776-0840†	1.4 $	150 Ø$	$J	75 †#	15 #	60 †	7.0†	80 ☑	2.0m#♦	3.0Ø	40	15		20M§Δ	37m	500nØ☑	EM	TO63	A
55	1776-0860†	1.4 $	150 Ø$	$J	75 †#	15 #	60 †	7.0†	80 ☑	2.0m#♦	3.0Ø	60	15		20M§Δ	25m	600nØ☑	EM	TO63	A
56	1776-1040†	1.4 $	150 Ø$	$J	75 †#	15 #	60 †	7.0†	100 ☑	2.0m#♦	3.0Ø	40	15		20M§Δ	37m	500nØ☑	EM	TO63	A
57	1776-1060†	1.4 $	150 Ø$	$J	75 †#	15 #	60 †	7.0†	100 ☑	2.0m#♦	3.0Ø	60	15		20M§Δ	25m	600nØ☑	EM	TO63	A
58	1776-1240†	1.4 $	150 Ø$	$J	75 †#	15 #	60 †	7.0†	120 ☑	2.0m#♦	3.0Ø	40	15		20M§Δ	37m	500nØ☑	EM	TO63	A
59	1776-1260†	1.4 $	150 Ø$	$J	75 †#	15 #	60 †	7.0†	120 ☑	2.0m#♦	3.0Ø	60	15		20M§Δ	25m	600nØ☑	EM	TO63	A
60	1776-1440†	1.4 $	150 Ø$	$J	75 †#	15 #	60 †	7.0†	140 ☑	2.0m#♦	3.0Ø	40	15		20M§Δ	37m	500nØ☑	EM	TO63	A
61	1776-1460†	1.4	150 Ø$	$J	75 †#	15 #	60 †	7.0†	140 ☑	2.0m#♦	3.0Ø	60	15		20M§Δ	25m	600nØ☑	EM	TO63	A
62	1776-1640†	1.4	150 Ø$	$J	75 †#	15 #	60 †	7.0†	160 ☑	2.0m#♦	3.0Ø	40	15		20M§Δ	37m	500nØ☑	EM	TO63	A
63	1776-1660†	1.4 $	150 Ø	$J	75 #	15 #	160	7.0	160 ☑	2.0m#	3.0Ø	60	15		20M§Δ	25m	600nØ☑	EM	TO63	A
64	1776-1840†	1.4 $	150 Ø	$J	75 #	15 #	180	7.0	180 ☑	2.0m#	3.0Ø	40	15		20M§Δ	37m	500nØ☑	EM	TO63	A
65	1776-1860†	1.4 $	150 Ø	$J	75 #	15 #	180	7.0	180 ☑	2.0m#	3.0Ø	60	15		20M§Δ	25m	600nØ☑	EM	TO63	A
66#	BUX20†	1.4	250 Ø	$J	50	10	160	7.0	125 ☑	5.0mΔ	2.0Ø	20	20	60	8.0M§Δ	30m	1.5uØ☑	DM	TO3	CØ
67#	BUX21†	1.4	250 Ø	$J	40	8.0	250	7.0	200 ☑	5.0mΔ	2.0Ø	12	20	60	8.0M§Δ	50m	1.5uØ☑	DM	TO3	CØ
68#	BUX22†	1.4	250 Ø	$J	40	8.0	300	7.0	250 ☑	5.0mΔ	4.0Ø	10	20	60	8.0M§Δ	100m	1.5uØ☑	DM	TO3	CØ
69#	BUX23†	1.4	250 Ø	$J	30	6.0	400	7.0	325 ☑	5.0mΔ	4.0Ø	10	15	60	8.0M§Δ	100m	2.0uØ☑	DM	TO3	CØ
70#	BUX24†	1.4	250 Ø	$J	20	4.0	500	7.0	400 ☑	5.0mΔ	4.0Ø	7.0	15	60	8.0M§Δ	85m	2.0uØ☑	DM	TO3	CØ
71#	BUX25†	1.4	250 Ø	$J	20	4.0	600	7.0	500 ☑	5.0mΔ	4.0Ø	5.0	15	60	8.0M§Δ	120m	2.0uØ☑	DM	TO3	CØ
72	CM80-28R*	1.4	250 Ø	$J	12 †			4.0†	60 Ø										W55	R
73	DTS430	1.4 ☑	125 Ø	$J	5.0	2.0	400	5.0	400	2.5mΔ	5.0Ø	2.5	15	45	2.5M§Δ	360m		DΔ	Y204a	CØ
74	DTS431	1.4 ☑	125 Ø	$J	5.0	2.0	400	5.0	400	2.5mΔ	5.0Ø	2.5	15	35	4.0M§	280m		DΔ	Y204a	CØ
75▼	GT600	1.4	250 Ø	$J	60		85	7.0	80	1.0mØ	4.0Ø	20	30	60	1.0M§	50m		DM	TO3	CØ
76▼	MJ15003	1.4	250 Ø	$J	20	5.0	140	5.0	140 ☑	100u#	2.0Ø	5.0	25	150	2.0M§Δ	200m			F49a	CØ
77	MRF244	1.4	250 Ø	$S	20		36 †	4.0†	18		5.0Ø	5.0	10	150					W65a	S
78	MRF245	1.4	250 Ø	$S	20		36 †	4.0†	18		5.0Ø	5.0	10	150					W65a	S
79▼	MRF327*	1.4	250 Ø	$S	9.0		60 $	4.0$	33 $	5.0mØ	5.0Ø	4.0	20	80	400M#				W65c	S
80	MRF454	1.4	250 Ø	$S	20		45	4.0	25		5.0Ø	5.0	10	150					W52n	R
81	MRF454A	1.4	250 Ø	$S	20		45	4.0	25		5.0Ø	5.0	10	150					T93d	R
82▼	MRF463*	1.4	250 Ø	$S	10		65	4.0$	35 $	10mØ§	5.0Ø	500m	10		30M#				W52m	R
83▼	MRF464*	1.4	250 Ø	$S	10		65	4.0$	35 $	10mØ§	5.0Ø	500m	10		30M#				W52p	R
84▼	MRF464A*	1.4	250 Ø	$S	10		65	4.0$	35 $	10mØ§	5.0Ø	500m	10		30M#				T93d	R
85♦#	RCS258	1.4	250 Ø	$J	20	5.0	100	7.0	60	5.0m	4.0Ø	10	15	60	200k§	140m			TO3	CØ
86	SPC151-04	1.4	100 Ø	$J	6.0	3.0	65	25	40	10m#	4.0Ø	1.5	11			866m		D	TO82	
87	SPC151-06	1.4	100 Ø	$J	6.0	3.0	85	25	60	10m#	4.0Ø	1.5	11			866m		D	TO82	
88	SPC151-08	1.4	100 Ø	$J	6.0	3.0	105	25	80	10m#	4.0Ø	1.5	11			866m		D	TO82	
89	SPC151-10	1.4	100 Ø	$J	6.0	3.0	125	25	100	10m#	4.0Ø	1.5	11			866m		D	TO82	
90	SPC151-12	1.4	100 Ø	$J	6.0	3.0	145	25	120	10m#	4.0Ø	1.5	11			866m		D	TO82	
91	SPC151-14	1.4	100 Ø	$J	6.0	3.0	165	25	140	10m#	4.0Ø	1.5	11			866m		D	TO82	
92	SPC151-16	1.4	100 Ø	$J	6.0	3.0	185	25	160	10m#	4.0Ø	1.5	11			866m		D	TO82	
93	SPC151-18	1.4	100 Ø	$J	6.0	3.0	205	25	180	10m#	4.0Ø	1.5	11			866m		D	TO82	
94	SPC151-20	1.4	100 Ø	$J	6.0	3.0	225	25	200	10m#	4.0Ø	1.5	11			866m		D	TO82	
95	SPC151-22	1.4	100 Ø	$J	6.0	3.0	245	25	220	10m#	4.0Ø	1.5	11			866m		D	TO82	
96	SPC151-24	1.4	100 Ø	$J	6.0	3.0	265	25	240	10m#	4.0Ø	1.5	11			866m		D	TO82	
97	SPC151-26	1.4	100 Ø	$J	6.0	3.0	285	25	260	10m#	4.0Ø	1.5	11			866m		D	TO82	
98	SPC151-28	1.4	100 Ø	$J	6.0	3.0	305	25	280	10m#	4.0Ø	1.5	11			866m		D	TO82	
99	SPC151-30	1.4	100 Ø	$J	6.0	3.0	325	25	300	10m#	4.0Ø	1.5	11			866m		D	TO82	
100	SPC152-04	1.4	100 Ø	$J	6.0	3.0	65	25	40	10m#	4.0Ø	1.5	18			833m		D	TO82	
101	SPC152-06	1.4	100 Ø	$J	6.0	3.0	85	25	60	10m#	4.0Ø	1.5	18			833m		D	TO82	
102	SPC152-08	1.4	100 Ø	$J	6.0	3.0	105	25	80	10m#	4.0Ø	1.5	18			833m		D	TO82	
103	SPC152-10	1.4	100 Ø	$J	6.0	3.0	125	25	100	10m#	4.0Ø	1.5	18			833m		D	TO82	
104	SPC152-12	1.4	100 Ø	$J	6.0	3.0	145	25	120	10m#	4.0Ø	1.5	18			833m		D	TO82	
105	SPC152-14	1.4	100 Ø	$J	6.0	3.0	165	25	140	10m#	4.0Ø	1.5	18			833m		D	TO82	
106	SPC152-16	1.4	100 Ø		6.0	3.0	185	25	160	10m#	4.0Ø	1.5	18			833m		D	TO82	
107	SPC152-18	1.4	100 Ø	$J	6.0	3.0	205	25	180	10m#	4.0Ø	1.5	18			833m		D	TO82	
108	SPC152-20	1.4	100 Ø	$J	6.0	3.0	225	25	200	10m#	4.0Ø	1.5	18			833m		D	TO82	
109	SPC152-22	1.4	100 Ø	$J	6.0	3.0	245	25	220	10m#	4.0Ø	1.5	18			833m		D	TO82	
110	SPC152-24	1.4	100 Ø	$J	6.0	3.0	265	25	240	10m#	4.0Ø	1.5	18			833m		D	TO82	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AE XM P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG #L C Y200 s/a TO200 Ser.	E O A D D E
1	2N2227	2.0 §	150 Ø	§C	10	1.0	100	15	100 ☑	20m#	6.0Ø	9.0	100	500	7.0k△	380m			T1	AØ
2	2N2228	2.0 §	150 Ø	§C	10	1.0	150	15	150 ☑	20m#	6.0Ø	9.0	100	500	7.0k△	380m			T1	AØ
3	2N2229	2.0 §	150 Ø	§C	10	1.0	200	15	200 ☑	20m#	6.0Ø	9.0	100	500	7.0k△	380m			T1	AØ
4	2N2230	2.0 §	150 Ø	§C	10	1.0	50	15	50 ☑	20m#	6.0Ø	9.0	350		4.0k△	380m			T1	AØ
5	2N2231	2.0 §	150 Ø	§C	10	1.0	100	15	100 ☑	20m#	6.0Ø	9.0	350		4.0k△	380m			T1	AØ
6	2N2232	2.0 §	150 Ø	§C	10	1.0	150	15	150 ☑	20m#	6.0Ø	9.0	350		4.0k△	380m			T1	AØ
7	2N2233	2.0 §	150 Ø	§C	10	1.0	200	15	200 ☑	20m#	6.0Ø	9.0	350		4.0k△	380m			T1	AØ
8	2N2739†	2.0 §	200 Ø	§C	20	7.5	50	15	50 ☑	15m#	4.0Ø	10	10			150m	6.0uØ		T1	B
9	2N2740†	2.0 §	200 Ø	§C	20	7.5	100	15	100 ☑	15m#	4.0Ø	10	10			150m	6.0uØ		T1	B
10	2N2741†	2.0 §	200 Ø	§C	20	7.5	150	15	150 ☑	15m#	4.0Ø	10	10			150m	6.0uØ		T1	B
11	2N2742†	2.0 §	200 Ø	§C	20	7.5	200	15	200 ☑	15m#	4.0Ø	10	10			150m	6.0uØ		T1	B
12	2N2743†	2.0 §	200 Ø	§C	20	7.5	250		250		4.0Ø	10	10				6.0uØ		T1b	B
13	2N2744†	2.0 §	200 Ø	§C	20	7.5	300		300		4.0Ø	10	10				6.0uØ		T1b	B
14	2N2745†	2.0 §	200 Ø	§C	20	7.5	50	15	50 ☑	15m#	4.0Ø	15	10			100m	6.0uØ		T1	B
15	2N2746†	2.0 §	200 Ø	§C	20	7.5	100	15	100 ☑	15m#	4.0Ø	15	10			100m	6.0uØ		T1	B
16	2N2747†	2.0 §	200 Ø	§C	20	7.5	150	15	150 ☑	15m#	4.0Ø	15	10			100m	6.0uØ		T1	B
17	2N2748†	2.0 §	200 Ø	§C	20	7.5	200	15	200 ☑	15m#	4.0Ø	15	10			100m	6.0uØ		T1	B
18	2N2749†	2.0 §	200 Ø	§C	20	7.5	250	15	250 ☑	15m#♦	4.0Ø	15	10				6.0uØ☑		T1b	B
19	2N2750†	2.0 §	200 Ø	§C	20	7.5	300	15	300 ☑	15m#♦	4.0Ø	15	10				6.0uØ☑		T1b	B
20	2N2751†	2.0 §	200 Ø	§C	20	7.5	50	15	50 ☑	15m#	4.0Ø	20	10			75m	7.0uØ		T1	B
21	2N2752†	2.0 §	200 Ø	§C	20	7.5	100	15	100 ☑	15m#	4.0Ø	20	10			75m	7.0uØ		T1	B
22	2N2753†	2.0 §	200 Ø	§C	20	7.5	150	15	150 ☑	15m#	4.0Ø	20	10			75m	7.0uØ		T1	B
23	2N2754†	2.0 §	200 Ø	§C	20	7.5	200	15	200 ☑	15m#	4.0Ø	20	10			75m	7.0uØ		T1	B
24	2N2755†	2.0 §	200 Ø	§C	20	7.5	250		250		4.0Ø	20	10				7.0uØ		T1b	B
25	2N2756†	2.0 §	200 Ø	§C	20	7.5	300		300		4.0Ø	20	10				7.0uØ		T1b	B
26	2N2757†	2.0 §	200 Ø	§C	30	7.5	50	15	50 ☑	15m#	4.0Ø	10	10			150m	6.0uØ		T33	A
27	2N2758†	2.0 §	200 Ø	§C	30	7.5	100	15	100 ☑	15m#	4.0Ø	10	10			150m	6.0uØ		T33	A
28	2N2759†	2.0 §	200 Ø	§C	30	7.5	150	15	150 ☑	15m#	4.0Ø	10	10			150m	6.0uØ		T33	A
29	2N2760†	2.0 §	200 Ø	§C	30	7.5	200	15	200 ☑	15m#	4.0Ø	10	10			150m	6.0uØ		T33	A
30	2N2761†	2.0 §	200 Ø	§C	30	7.5	250	15	250 ☑	15m#	4.0Ø	10	10			150m	6.0uØ		T33	A
31	2N2762†	2.0 §	200 Ø	§C	30	7.5	300		300 ☑	15m#	4.0Ø	10	10				6.0uØ		T33	A
32	2N2763†	2.0 §	200 Ø	§C	30	7.5	50	15	50 ☑	15m#	4.0Ø	15	10			100m	6.0uØ		T33	A
33	2N2764†	2.0 §	200 Ø	§C	30	7.5	100	15	100 ☑	15m#	4.0Ø	15	10			100m	6.0uØ		T33	A
34	2N2765†	2.0 §	200 Ø	§C	30	7.5	150	15	150 ☑	15m#	4.0Ø	15	10			100m	6.0uØ		T33	A
35	2N2766†	2.0 §	200 Ø	§C	30	7.5	200	15	200 ☑	15m#	4.0Ø	15	10			100m	6.0uØ		T33	A
36	2N2767†	2.0 §	200 Ø	§C	30	7.5	250		250 ☑	15m#	4.0Ø	15	10				6.0uØ		T33	A
37	2N2768†	2.0 §	200 Ø	§C	30	7.5	300		300 ☑	15m#	4.0Ø	15	10				6.0uØ		T33	A
38	2N2769†	2.0 §	200 Ø	§C	30	7.5	50	15	50 ☑	15m#	4.0Ø	20	10			75m	7.0uØ		T33	A
39	2N2770†	2.0 §	200 Ø	§C	30	7.5	100	15	100 ☑	15m#	4.0Ø	20	10			75m	7.0uØ		T33	A
40	2N2771†	2.0 §	200 Ø	§C	30	7.5	150	15	150 ☑	15m#	4.0Ø	20	10			75m	7.0uØ		T33	A
41	2N2772†	2.0 §	200 Ø	§C	30	7.5	200	15	200 ☑	15m#	4.0Ø	20	10			75m	7.0uØ		T33	A
42	2N2773†	2.0 §	200 Ø	§C	30	7.5	250		250 ☑	15m#	4.0Ø	20	10				7.0uØ		T33	A
43	2N2774†	2.0 §	200 Ø	§C	30	7.5	300		300 ☑	15m#	4.0Ø	20	10				7.0uØ		T33	A
44	2N2775†	2.0 §	200 Ø	§C	30	7.5	50	15	50 ☑	15m#	4.0Ø	25	10			60m	8.0uØ		T33	A
45	2N2776†	2.0 §	200 Ø	§C	30	7.5	100	15	100 ☑	15m#	4.0Ø	25	10			60m	8.0uØ		T33	A
46	2N2777†	2.0 §	200 Ø	§C	30	7.5	150	15	150 ☑	15m#	4.0Ø	25	10			60m	8.0uØ		T33	A
47	2N2778†	2.0 §	200 Ø	§C	30	7.5	200	15	200 ☑	15m#	4.0Ø	25	10			60m	8.0uØ		T33	A
48	2N2779†	2.0 §	200 Ø	§C	30	7.5	250		250 ☑	15m#	4.0Ø	25	10				8.0uØ		T33	A
49	2N2780†	2.0 §	200 Ø	§C	30	7.5	300		300 ☑	15m#	4.0Ø	25	10				8.0uØ		T33	A
50	2N3149	2.0	300 Ø	§J	70	15	80	10	80	2.0m#	3.0Ø	50	10 #		100k§△	30m	10uØ☑	D	T49	Ø
51	2N3150	2.0	300 Ø	§J	70	15	100	10	100	2.0m#	3.0Ø	50	10 #		100k§△	30m	10uØ☑	D	T49	Ø
52	2N3151	2.0	300 Ø	§J	70	15	150	10	150	2.0m#	3.0Ø	50	10 #		100k§△	30m	10uØ☑	D	T49	Ø
53	2N3470	2.0 §Ø	150 Ø	§C	10	1.0	50	15	50	20m#	6.0Ø	9.0	100	500	7.0k△	390m		F	T33	
54	2N3471	2.0 §Ø	150 Ø	§C	10	1.0	100	15	100	20m#	6.0Ø	9.0	100	500	7.0k△	390m		F	T33	
55	2N3472	2.0 §Ø	150 Ø	§C	10	1.0	150	15	150	20m#	6.0Ø	9.0	100	500	7.0k△	390m		F	T33	
56	2N3473	2.0 §Ø	150 Ø	§C	10	1.0	200	15	200	20m#	6.0Ø	9.0	100	500	7.0k△	390m		F	T33	
57	2N3474	2.0 §Ø	150 Ø	§C	10	1.0	50	15	50	20m#	6.0Ø	9.0	350		4.0k△	390m		F	T33	
58	2N3475	2.0 §Ø	150 Ø	§C	10	1.0	100	15	100	20m#	6.0Ø	9.0	350		4.0k△	390m		F	T33	
59	2N3476	2.0 §Ø	150 Ø	§C	10	1.0	150	15	150	20m#	6.0Ø	9.0	350		4.0k△	390m		F	T33	
60	2N3477	2.0 §Ø	150 Ø	§C	10	1.0	200	15	200	20m#	6.0Ø	9.0	350		4.0k△	390m		F	T33	
61	2N3846†	2.0 §	4.0	§C	20	10	300	10	200	10m#	3.0Ø	5.0	40	200 #	10M§△	80m	4.0uØ		TO63	AØ
62	JAN2N3846†	2.0 △	4.0	§A	20		300		200 *	2.0m§	3.0Ø	10	12 #	60 #	10M§△		4.0uØ☑		TO63	AØ
63	2N3847†	2.0 §	4.0	§C	20	10	400	10	300	10m#	3.0Ø	5.0	40	200 #	10m§△	80m	4.0uØ		TO63	AØ
64	JAN2N3847†	2.0 △	4.0	§A	20		400		300 *	2.0m§	3.0Ø	10	12 #	60 #	10M§△		4.0uØ☑		TO63	AØ
65	2N3848†	2.0 §	4.0	§C	20	10	300	10	200	10m#	4.0Ø	5.0	40	200 #	10M§△	670m	4.0uØ		TO63	AØ
66	2N3849†	2.0 §	4.0	§C	20	10	400	10	300	10m#	4.0Ø	5.0	40	200 #	10m§△	670m	4.0uØ		TO63	AØ
67	2N4865†	2.0	350 Ø	§J	90	15	100	8.0	80	1.0uØ	5.0Ø	70	10	40 #	10M§△		2.0u	PL	T69	
68	JAN2N4865†	2.0	350 Ø	§J	50		100	10	80	100u§	5.0Ø	70	10	40 #	10M§△		2.0uØ☑		T49a	AØ
69	2N4866†	2.0	350 Ø	§J	90	15	140	8.0	120	1.0uØ	5.0Ø	70	10	40 #	10M§△		2.0u	PL	T69	
70	2N4950†	2.0 #	300 Ø#	§C	70	15	80 †	10†	60	2.0m§♦	3.0Ø	50	10 #				9.5uØ		T69	AØ
71	2N5250†	2.0	350 Ø	§J	90	15	125	10	100	1.0uØ	5.0Ø	70	10	40 #	10M§△		2.0u		T69	AØ
72	JAN2N5250†	2.0	350 Ø	§J	50		125	10	100	100u§	5.0Ø	70	10	40 #	10M§△		2.0uØ☑		T49a	AØ
73	2N5251†	2.0	350 Ø	§J	90	15	180	10	150	1.0uØ	5.0Ø	70	10	40 #	10M§△		2.0u		T69	AØ
74	JAN2N5251†	2.0	350 Ø	§J	50		180	10	150	100u§	5.0Ø	70	10	40 #	10M§△		2.0uØ☑		T49a	AØ
75	2N5489	2.0 #	300 Ø	§J	40	15	100	10	100	2.0m§	6.0Ø	40	15	50	500k§△	38m			TO114	AØ
76	2N5575†	2.0 §	150 Ø§	§J	80 †	20	70 †	8.0†	70 #		4.0Ø	60	10	40 #		33m#	15uØ		F23	CØ
77	2N5576†	2.0 §	150 Ø§	§J	80 †	20	70 †	8.0†	70 #		4.0Ø	60	10	40 #		33m#	15uØ		F45	CØ
78	2N5577†	2.0 §	150 Ø§	§J	80 †	20	70 †	8.0†	70 #		4.0Ø	60	10	40 #		33m#	15uØ		F46	CØ
79	2N5578†	2.0 §	150 Ø§	§J	60 †	15	90 †	8.0†	90 #		3.0Ø	40	10	40 #		37m#	10uØ		F23	CØ
80	2N5587	2.0 #	300 Ø	§J	80	15	120 †	6.0†	120	2.0m§♦	2.0Ø	80	10	30		25m			TO114	AØ
81	2N5588	2.0 #	300 Ø	§J	80	15	160 †	6.0†	60	2.0m§♦	2.0Ø	80	10	30		25m			TO114	AØ
82	2N5926†	2.0 §	200 Ø	§J	50	15	150	10	120 #*		2.0Ø	50	10	40 #					TO63	AØ
83♦	JAN2N5926†	2.0 §	350 Ø	§A	50		150	10	120	2.0m§	2.0Ø	50	10	40 #			7.0uØ☑		T69d	A
84	2N5927†	2.0 §	200 Ø	§J	100	25	150	10	120 #*		2.0Ø	70	10	40 #					TO114	AØ
85	JAN2N5927†	2.0	350 Ø	§A	100		150	10	120	2.0m§	2.0Ø	70	10	40 #			7.0uØ☑		T69c	B
86	2N5928†	2.0 §	200 Ø	§J	100	25	120	10	120 #*		2.0Ø	100	10	40 #					TO114	AØ
87	2N6322	2.0 §	200 Ø	§J	30	10	300 †	5.0†	200	5.0m△♦	5.0Ø	5.0	40	150 #	10M§△				TO3	CØ
88	2N6323	2.0 §	200 Ø	§J	30	10	400 †	5.0†	300	5.0m△♦	5.0Ø	5.0	30	150 #	10M§△				TO3	CØ
89	2N6324	2.0 §	200 Ø	§J	30	10	300 †	5.0†	200	5.0m△♦	5.0Ø	5.0	40	150 #	10M§△				TO63	AØ
90	2N6325	2.0 §	200 Ø	§J	30	10	400 †	5.0†	300	5.0m△♦	5.0Ø	5.0	30	150 #	10M§△				TO63	AØ
91	163-04†	2.0 §	200 Ø	§J	20	7.5	55	25	40	30m#	4.0Ø	5.0	15		500k§	220m	6.0uØ☑	A	T33	AØ
92	163-04A†	2.0 §	200 Ø	§J	20	7.5	55	15	40	30m#	4.0Ø	5.0	15			220m	6.0uØ☑	DM	T33	AØ
93	163-04SPC†	2.0 §	200 Ø	§J	20	7.5	55	15	40	30m#	4.0Ø	5.0	15			220m	6.0uØ☑	A	T33	AØ
94	163-05	2.0 #	200 Ø	§J	20	7.5	65	25	50	30m#	4.0Ø	5.0	15		500k§	220m	6.0uØ☑	A	T33	AØ
95	163-06†	2.0 §	200 Ø	§J	20	7.5	75	25	60	30m#	4.0Ø	5.0	15		500k§	220m	6.0uØ☑	A	T33	AØ
96	163-06A†	2.0 §	200 Ø	§J	20	7.5	75	15	60	30m#	4.0Ø	5.0	15			220m	6.0uØ☑	DM	T33	AØ
97	163-06SPC†	2.0 §	200 Ø	§J	20	7.5	75	15	60	30m#	4.0Ø	5.0	15			220m	6.0uØ☑	A	T33	AØ
98	163-07	2.0 #	200 Ø	§J	20	7.5	85	25	70	30m#	4.0Ø	5.0	15		500k§	220m	6.0uØ☑	A	T33	AØ
99	163-08†	2.0 §	200 Ø	§J	20	7.5	95	25	80	30m#	4.0Ø	5.0	15		500k§	220m	6.0uØ☑	A	T33	AØ
100	163-08A†	2.0 §	200 Ø	§J	20	7.5	95	15	80	30m#	4.0Ø	5.0	15			220m	6.0uØ☑	DM	T33	AØ
101	163-08SPC†	2.0 §	200 Ø	§J	20	7.5	95	15	80	30m#	4.0Ø	5.0	15			220m	6.0uØ☑	A	T33	AØ
102	163-09	2.0 #	200 Ø	§J	20	7.5	105	25	90	30m#	4.0Ø	5.0	15		500k§	220m	6.0uØ☑	A	T33	AØ
103	163-10†	2.0 §	200 Ø	§J	20	7.5	115	25	100	30m#	4.0Ø	5.0	15		500k§	220m	6.0uØ☑	A	T33	AØ
104	163-10A†	2.0 §	200 Ø	§J	20	7.5	115	15	100	30m#	4.0Ø	5.0	15			220m	6.0uØ☑	DM	T33	AØ
105	163-10SPC†	2.0 §	200 Ø	§J	20	7.5	115	15	100	30m#	4.0Ø	5.0	15			220m	6.0uØ☑	A	T33	AØ
106	163-12†	2.0 §	200 Ø	§J	20	7.5	135	25	120	30m#	4.0Ø	5.0	15		500k§	220m	6.0uØ☑	A	T33	AØ
107	163-12A†	2.0 §	200 Ø	§J	20	7.5	135	15	120	30m#	4.0Ø	5.0	15			220m	6.0uØ☑	DM	T33	AØ
108	163-12SPC†	2.0 §	200 Ø	§J	20	7.5	135	15	120	30m#	4.0Ø	5.0	15			220m	6.0uØ☑	A	T33	AØ
109	163-14†	2.0 §	200 Ø	§J	20	7.5	155	25	140	30m#	4.0Ø	5.0	15		500k§	220m	6.0uØ☑	A	T33	AØ
110	163-14A†	2.0 §	200 Ø	§J	20	7.5	155	15	140	30m#	4.0Ø	5.0	15			220m	6.0uØ☑	DM	T33	AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M A X	T E M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	SDT5830	2.0	350 Ø			100		250	10	225	10k	5.0Ø	25	30		10M	48m		DPL	TO68 CØ
2	SDT5831	2.0	350 Ø			100		275	10	250	10k	5.0Ø	25	30		10M	48m		DPL	TO68 CØ
3	SDT5832	2.0	350 Ø			100		300	10	275	10k	5.0Ø	25	30		10M	48m		DPL	TO68 CØ
4	SDT5833	2.0	350 Ø			100		325	10	300	10k	5.0Ø	25	30		10M	48m		DPL	TO68 CØ
5	SDT5835	2.0	350 Ø			20		525	10	525	10u	10Ø	10	15		10M	40m		DPL	TO68 CØ
6	SDT5836	2.0	350 Ø			20		550	10	550	10u	10Ø	10	15		10M	40m		DPL	TO68 CØ
7	SDT5837	2.0	350 Ø			20		575	10	575	10u	10Ø	10	15		10M	40m		DPL	TO68 CØ
8	SDT5838	2.0	350 Ø			20		600	10	600	10u	10Ø	10	15		10M	40m		DPL	TO68
9	SDT8920	2.0	350			90	20	80	8.0	60	.01m	5.0	75	10		20M				T49
10	SDT8921	2.0	350			90	20	100	8.0	80	.01m	5.0	75	10		20M				T49
11	SDT8922	2.0	350			90	20	120	8.0	100	.01m	5.0	75	10		20M				T49
12	SDT8923	2.0	350			90	20	140	8.0	120	.01m	5.0	75	10		20M				T49
13	SDT8951	2.0	350 Ø		§J	60	15	200	8.0		10uØ	10Ø	40	10	40 #	20M§			PL	T49a
14	SDT8952	2.0	350 Ø		§J	60	15	225	8.0		10uØ	10Ø	40	10	40 #	20M§			PL	T49a
15	SDT8953	2.0	350 Ø		§J	60	15	250	8.0		10uØ	10Ø	40	10	40 #	20M§			PL	T49a
16	SDT8954	2.0	350 Ø		§J	60	15	275	8.0		10uØ	10Ø	40	10	40 #	20M§			PL	T49a
17	SDT8955	2.0	350 Ø		§J	60	15	300	8.0		10uØ	10Ø	40	10	40 #	20M§			PL	T49a
18	SDT9610	2.0	350 Ø			50		225	10	200	1.0u	10Ø	40	10		10M	45m		DPL	TO114
19	SDT9611	2.0	350 Ø			50		250	10	225	1.0u	10Ø	40	10		10M	45m		DPL	TO114
20	SDT9612	2.0	350 Ø			50		275	10	250	1.0u	10Ø	40	10		10M	45m		DPL	TO114
21	SDT9613	2.0	350 Ø			50		300	10	275	1.0u	10Ø	40	10		10M	45m		DPL	TO114
22	SDT9614	2.0	350 Ø			50		325	10	300	1.0u	10Ø	40	10		10M	45m		DPL	TO114
23	SDT9650	2.0	350 Ø			100		80	10	60	1.0u	5.0Ø	70	15		10M	14m		DPL	TO114
24	SDT9651	2.0	350 Ø			100		100	10	80	1.0u	5.0Ø	70	15		10M	14m		DPL	TO114
25	SDT9652	2.0	350 Ø			100		120	10	100	1.0u	5.0Ø	70	15		10M	14m		DPL	TO114
26	SDT9653	2.0	350 Ø			100		140	10	120	1.0u	5.0Ø	70	15		10M	14m		DPL	TO114
27	SDT9654	2.0	350 Ø			100		160	10	140	1.0u	5.0Ø	70	15		10M	14m		DPL	TO114
28	SDT96901	2.0	200 Ø$		§J	100	20	80	10	60	1.0uØ	5.0Ø	90	5.0					PL	TO114
29	SDT96902	2.0	200 Ø$		§J	100	20	120	10	100	1.0uØ	5.0Ø	90	5.0					PL	TO114
30	SDT96903	2.0	200 Ø$		§J	100	20	160	10	140	1.0uØ	5.0Ø	90	5.0					PL	TO114
31	SDT96904	2.0	200 Ø$		§J	50	15	225	10	200	1.0uØ	10Ø	40	8.0	40				PL	TO114
32	SDT96905	2.0	200 Ø$		§J	50	15	275	10	250	1.0uØ	10Ø	40	8.0	40				PL	TO114
33	SDT96906	2.0	200 Ø$		§J	50	15	325	10	300	1.0uØ	10Ø	40	8.0	40				PL	TO114
34	SPC163-04	2.0	200 Ø		§J	20	7.5	55	15	40	30m#	4.0Ø	5.0	15			220m		D	TO63
35	SPC163-06	2.0	200 Ø		§J	20	7.5	75	15	60	30m#	4.0Ø	5.0	15			220m		D	TO63
36	SPC163-08	2.0	200 Ø		§J	20	7.5	95	15	80	30m#	4.0Ø	5.0	15			220m		D	TO63
37	SPC163-10	2.0	200 Ø		§J	20	7.5	115	15	100	30m#	4.0Ø	5.0	15			220m		D	TO63
38	SPC163-12	2.0	200 Ø		§J	20	7.5	135	15	120	30m#	4.0Ø	5.0	15			220m		D	TO63
39	SPC163-14	2.0	200 Ø		§J	20	7.5	155	15	140	30m#	4.0Ø	5.0	15			220m		D	TO63
40	SPC163-16	2.0	200 Ø		§J	20	7.5	175	15	160	30m#	4.0Ø	5.0	15			220m		D	TO63
41	SPC163-18	2.0	200 Ø		§J	20	7.5	195	15	180	30m#	4.0Ø	5.0	15			220m		D	TO63
42	SPC163-20	2.0	200 Ø		§J	20	7.5	215	15	200	30m#	4.0Ø	5.0	15			220m		D	TO63
43	SPC163-22	2.0	200 Ø		§J	20	7.5	235	15	220	30m#	4.0Ø	5.0	15			220m		D	TO63
44	SPC163-24	2.0	200 Ø		§J	20	7.5	255	15	240	30m#	4.0Ø	5.0	15			220m		D	TO63
45	SPC163-26	2.0	200 Ø		§J	20	7.5	275	15	260	30m#	4.0Ø	5.0	15			220m		D	TO63
46	SPC163-28	2.0	200 Ø		§J	20	7.5	295	15	280	30m#	4.0Ø	5.0	15			220m		D	TO63
47	SPC163-30	2.0	200 Ø		§J	20	7.5	315	15	300	30m#	4.0Ø	5.0	15			220m		D	TO63
48	SPC164-04	2.0	200 Ø		§J	20	7.5	55	15	40	30m#	4.0Ø	5.0	25			50m		D	TO63
49	SPC164-06	2.0	200 Ø		§J	20	7.5	75	15	60	30m#	4.0Ø	5.0	25			50m		D	TO63
50	SPC164-08	2.0	200 Ø		§J	20	7.5	95	15	80	30m#	4.0Ø	5.0	25			50m		D	TO63
51	SPC164-10	2.0	200		§J	20	7.5	115	15	100	30m#	4.0Ø	5.0	25			50m		D	TO63
52	SPC164-12	2.0	200		§J	20	7.5	135	15	120	30m#	4.0Ø	5.0	25			50m		D	TO63
53	SPC164-14	2.0	200		§J	20	7.5	155	15	140	30m#	4.0Ø	5.0	25			50m		D	TO63
54	SPC164-16	2.0	200		§J	20	7.5	175	15	160	30m#	4.0Ø	5.0	25			50m		D	TO63
55	SPC164-18	2.0	200		§J	20	7.5	195	15	180	30m#	4.0Ø	5.0	25			50m		D	TO63
56	SPC164-20	2.0	200		§J	20	7.5	215	15	200	30m#	4.0Ø	5.0	25			50m		D	TO63
57	ST14010	2.0 $	200 Ø		§J	80	10	150	12	100	10u	5.0Ø	80	10		10M§Δ	30m		PE	TO63
58	ST14011	2.0 $	200 Ø			80		100	12	60	.01mØ	5.0Ø	20	40	200	10M§Δ			PE	TO63
59	ST14012	2.0 $	200 Ø			80		125	12	80	.01mØ	5.0Ø	20	40	200	10M§Δ			PE	TO63
60	ST14013	2.0 $	200 Ø			80		150	12	100	.01mØ	5.0Ø	20	40	200	10M§Δ			PE	TO63
61	ST14026	2.0	200 Ø		§J	80		125	10	80	100u	10	30	30	120	10M	38m	2.0u	PE	TO63
62	ST14027	2.0	200 Ø		§J	80		145	10	100	100u	10	30	30	120	10M	38m	2.0u	PE	TO63
63	ST14028	2.0	200 Ø		§J	80		170	10	120	100u	10	30	30	120	10M	38m	2.0u	PE	TO63
64	ST14060	2.0 $	200 Ø		§J	80	10	100	12	60	10u	5.0Ø	80	10		10M§Δ	30m		PE	TO63
65	ST14080	2.0 $	200 Ø		§J	80	10	125	12	80	10u	5.0Ø	80	10		10M§Δ	30m		PE	TO63
66	STC2103	2.0 #	300 Ø		§J	65	15	80	10	80		6.0Ø	45	10			50m		D	T49
67	STC2104	2.0 #	300 Ø		§J	65	15	100	10	100		6.0Ø	45	10			50m		D	T49
68	STC2105	2.0 #	300 Ø		§J	65	15	150	10	150		6.0Ø	45	10			50m		D	T49
69	STC2106	2.0	300 Ø		§J	60		80	10	80		6.0Ø	40	10			50m		D	T49
70	STC2107	2.0	300 Ø		§J	60		100	10	100		6.0Ø	40	10			50m		D	T49
71	STC2108	2.0	300 Ø		§J	60		150	10	150		6.0Ø	40	10			50m		D	T49
72	STC2180	2.0 #	300 Ø		§J	75	15	60 †	6.0†	40	5.0m#♦	5.0Ø	50	10		20M§Δ	30m	600n	EMΔ	TO114
73	STC2181	2.0 #	300 Ø		§J	75	15	100 †	6.0†	60	5.0m#♦	5.0Ø	50	10		20M§Δ	30m	600n	EMΔ	TO114
74	STC2182	2.0 #	300 Ø		§J	75	15	160 †	6.0†	140	5.0m#♦	5.0Ø	50	10		20M§Δ	30m	600n	EMΔ	TO114
75	STC2183	2.0 #	300 Ø		§J	100	15	250 †	6.0†	200	5.0m#♦	5.0Ø	50	10		20M§Δ	30m	600n	EMΔ	TO114
76	STC2184	2.0 #	300 Ø		§J	100	15	60 †	6.0†	40	5.0m#♦	5.0Ø	75	10		20M§Δ	20m	600n	EMΔ	TO114
77	STC2185	2.0 #	300 Ø		§J	100	15	100 †	6.0†	60	5.0m#♦	5.0Ø	75	10		20M§Δ	20m	600n	EMΔ	TO114
78	STC2186	2.0 #	300 Ø		§J	100	15	160 †	6.0†	140	5.0m#♦	5.0Ø	75	10		20M§Δ	20m	600n	EMΔ	TO114
79	STC2187	2.0 #	300 Ø		§J	100	15	250 †	6.0†	200	5.0m#♦	5.0Ø	75	10		20M§Δ	20m	600n	EMΔ	TO114
80	STC2188	2.0 #	300 Ø		§J	100	15	60 †	6.0†	40	5.0m#♦	5.0Ø	100	10		20M§Δ	15m	600n	EMΔ	TO114
81	STC2189	2.0 #	300 Ø		§J	100	15	100 †	6.0†	60	5.0m#♦	5.0Ø	100	10		20M§Δ	15m	600n	EMΔ	TO114
82	TIP531	2.0	4.0		§J	15 †	4.0	340 †	6.0†	300	1.0m§♦	4.0Ø	7.5	20	120 #	50M§Δ			PEΔ	TO3 CØ
83	TIP532	2.0	4.0		§J	15 †	4.0	450 †	6.0†	400	1.0m§♦	4.0Ø	7.5	20	120 #	50M§Δ			PEΔ	TO3 CØ
84	TIP533	2.0	4.0		§J	15 †	4.0	340 †	6.0†	300	1.0m§♦	4.0Ø	7.5	20	120 #	50M§Δ			PEΔ	TO63 A
85	TIP534	2.0	4.0		§J	15 †	4.0	450 †	6.0†	400	1.0m§♦	4.0Ø	7.5	20	120 #	50M§Δ			PEΔ	TO63 A
86	TIXP547	2.0	8.5		§J	100 †	25	80 †	5.0†	60	5.0m§♦	4.0Ø	50	15	100 #	3.0M§Δ			DMΔ	TO114 A
87	TIXP548	2.0	8.5		§J	100 †	25	100 †	5.0†	80	5.0m§♦	4.0Ø	50	15	100 #	3.0M§Δ			DMΔ	TO114 A
88	TIXP549	2.0	8.5		§J	100 †	25	120 †	5.0†	100	5.0m§♦	4.0Ø	50	15	100 #	3.0M§Δ			DMΔ	TO114 A
89	2N1809†	2.1 ☑	250 Ø		§J	10	10	50	15	50 #	30m#†	4.0Ø	10	10			150m	20uØ		T13 AØ
90	2N1810†	2.1 ☑	250 Ø		§J	10	10	100	15	100 #	30m#†	4.0Ø	10	10			150m	20uØ		T14 CØ
91	2N1811†	2.1 ☑	250 Ø		§J	10	10	150	15	150 #	30m#†	4.0Ø	10	10			150m	20uØ		T14 CØ
92	2N1812†	2.1 ☑	250 Ø		§J	10	10	200	15	200 #	30m#†	4.0Ø	10	10			150m	20uØ		T14 CØ
93	2N1813†	2.1 ☑	250 Ø		§J	10	10	250	15	250 #	30m#†	4.0Ø	10	10			150m	20uØ		T14 CØ
94	2N1814†	2.1 ☑	250 Ø		§J	10	10	300	15	300 #	30m#†	4.0Ø	10	10			150m	20uØ		T14 CØ
95	2N1816†	2.1 ☑	250 Ø		§J	15	10	50	15	50 #	30m#†	4.0Ø	15	10			100m	20uØ		T14 CØ
96	2N1817†	2.1 ☑	250 Ø		§J	15	10	100	15	100 #	30m#†	4.0Ø	15	10			100m	20uØ		T14 CØ
97	2N1818†	2.1 ☑	250 Ø		§J	15	10	150	15	150 #	30m#†	4.0Ø	15	10			100m	20uØ		T14 CØ
98	2N1819†	2.1 ☑	250 Ø		§J	15	10	200	15	200 #	30m#†	4.0Ø	15	10			100m	20uØ		T14 CØ
99	2N1823†	2.1 ☑	250 Ø		§J	20	10	50	15	50 #	30m#†	4.0Ø	20	10			75m	20uØ		T14 CØ
100	2N1824†	2.1 ☑	250 Ø		§J	20	10	100	15	100 #	30m#†	4.0Ø	20	10			75m	20uØ		T14 CØ
101	2N1825†	2.1 ☑	250 Ø		§J	20	10	150	15	150 #	30m#†	4.0Ø	20	10			75m	20uØ		T14 CØ
102	2N1826†	2.1 ☑	250 Ø		§J	20	10	200	15	200 #	30m#†	4.0Ø	20	10			75m	20uØ		T14 CØ
103	2N1830†	2.1 ☑	250 Ø		§J	25	10	50	15	50 #	30m#†	4.0Ø	25	10			60m	20uØ		T14 CØ
104	2N1831†	2.1 ☑	250 Ø		§J	25	10	100	15	100 #	30m#†	4.0Ø	25	10			60m	20uØ		T14 CØ
105	2N1832†	2.1 ☑	250 Ø		§J	25	10	150	15	150 #	30m#†	4.0Ø	25	10			60m	20uØ		T14 CØ
106	2N1833†	2.1 ☑	250 Ø		§J	25	10	200	15	200 #	30m#†	4.0Ø	25	10			60m	20uØ		T14 CØ
107	2N2109†	2.1 ☑	250 Ø		§J	10	10	50	15	50 #	30 #†	4.0Ø	10	10			150m	20uØ		T17 F
108	2N2110†	2.1 ☑	250 Ø		§J	10	10	100	15	100 #	30 #†	4.0Ø	10	10			150m	20uØ		T17 F
109	2N2111†	2.1 ☑	250 Ø		§J	10	10	150	15	150 #	30 #†	4.0Ø	10	10			150m	20uØ		T17 F
110	2N2112†	2.1 ☑	250 Ø		§J	10	10	200	15	200 #	30 #†	4.0Ø	10	10			150m	20uØ		T17 F

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	1401-0415†	5.0 §	625 Ø	§J	250	75		70	40 ☑	10m#	4.0Ø	150	10 #		500k§Δ		5.0uØ☑	D	T14a	C
2	1401-0420†	5.0 §	625 Ø	§J	250	75		70	40 ☑	10m#	4.0Ø	200	10 #		500k§Δ		5.0uØ☑	D	T14a	C
3	1401-0425†	5.0 §	625 Ø	§J	250	75		70	40 ☑	10m#	4.0Ø	250	10 #		500k§Δ		5.0uØ☑	D	T14a	C
4	1401-0615†	5.0 §	625 Ø	§J	250	75		70	60 ☑	10m#	4.0Ø	150	10 #		500k§Δ		5.0uØ☑	D	T14a	C
5	1401-0625†	5.0 §	625 Ø	§J	250	75		70	60 ☑	10m#	4.0Ø	250	10 #		500k§Δ		5.0uØ☑	D	T14a	C
6	1401-0815†	5.0 §	625 Ø	§J	250	75		70	80 ☑	10m#	4.0Ø	150	10 #		500k§Δ		5.0uØ☑	D	T14a	C
7	1401-0820†	5.0 §	625 Ø	§J	250	75		70	80 ☑	10m#	4.0Ø	200	10 #		500k§Δ		5.0uØ☑	D	T14a	C
8	1401-0825†	5.0 §	625 Ø	§J	250	75		70	80 ☑	10m#	4.0Ø	250	10 #		500k§Δ		5.0uØ☑	D	T14a	C
9	1401-1015†	5.0 §	625 Ø	§J	250	75		70	100 ☑	10m#	4.0Ø	150	10 #		500k§Δ		5.0uØ☑	D	T14a	C
10	1401-1020†	5.0 §	625 Ø	§J	250	75		70	100 ☑	10m#	4.0Ø	200	10 #		500k§Δ		5.0uØ☑	D	T14a	C
11	1401-1025†	5.0 §	625 Ø	§J	250	75		70	100 ☑	10m#	4.0Ø	250	10 #		500k§Δ		5.0uØ☑	D	T14a	C
12	1401-1215†	5.0 §	625 Ø	§J	250	75		70	120 ☑	10m#	4.0Ø	150	10 #		500k§Δ		5.0uØ☑	D	T14a	C
13#	BDY10†	5.0	150 Ø	§J	20		50	50	40	300u	2.0Ø	2.0	10	50	10k	350m	4.0u	D	TO3	CØ
14#	BDY11†	5.0	150 Ø	§J	2.0		100	5.0	70	300u	2.0Ø	2.0	10	50	10k	350m	4.0u	D	TO3	CØ
15#	TR250B0815	5.0	625 Ø	§J	250	35	90	5.0	80 ☑	2.0m	4.0Ø	150	10 #		500k§Δ		5.0uØ☑	D	T14b	C
16#	TR250B0820	5.0	625 Ø	§J	250	35	90	50	80 ☑	20m	4.0Ø	200	10 #		500k§Δ		5.0uØ☑	D	T14b	C
17#	TR250B0825	5.0	625 Ø	§J	250	35	90	50	80 ☑	2.0m	4.0Ø	250	10 #		500k§Δ		5.0uØ☑	D	T14b	C
18#	TR250B1015	5.0	625 Ø	§J	250	35	110	50	100 ☑	2.0m	4.0Ø	150	10 #		500k§Δ		5.0uØ☑	D	T14b	C
19#	TR250B1020	5.0	625 Ø	§J	250	35	110	50	100 ☑	2.0m	4.0Ø	200	10 #		500k§Δ		5.0uØ☑	D	T14b	C
20#	TR250B1025	5.0	625 Ø	§J	250	35	110	5.0	100 ☑	2.0m	4.0Ø	250	10 #		500k§Δ		5.0uØ☑	D	T14b	C
21#	TR250B1215	5.0	625 Ø	§J	250	35	130	5.0	120 ☑	2.0m	4.0Ø	150	10 #		500k§Δ		5.0uØ☑	D	T14b	C
22#	TR250B1220	5.0	625 Ø	§J	250	35	130	5.0	120 ☑	2.0m	4.0Ø	200	10 #		500k§Δ		5.0uØ☑	D	T14b	C
23#	TR250B1415	5.0	625 Ø	§J	250	35	150	5.0	140 ☑	2.0m	4.0Ø	150	10 #		500k§Δ		5.0uØ☑	D	T14b	C
24#	2SD223†	12	10 Ø	§J	1.5	500m	80	7.0	50	10uØ	4.0Ø	500m	20	180	8.0M†	1.0	300n	D	F43	AØ
25	TRL2015	13 Ø	2.0	§S	3.0	1.0	200	40	200 §	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	F8	
26	TRL2255S	13 Ø	2.0	§S	3.0	1.0	250	4.0	225	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	F8	
27	TRL2505	13 Ø	2.0	§S	3.0	1.0	250	4.0	250 §	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	F8	
28	TRL2505S	13 Ø	2.0	§S	3.0	1.0	275	4.0	250	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	F8	
29	TRL2755S	13 Ø	2.0	§S	3.0	1.0	300	4.0	275	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	F8	
30	TRL3015	13 Ø	2.0	§S	3.0	1.0	300	4.0	300 §	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	F8	
31	TRL3015S	13 Ø	2.0	§S	3.0	1.0	325	4.0	300	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	F8	
32	TRL3505	13 Ø	2.0	§S	3.0	1.0	350	4.0	350 §	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	F8	
33	TRL3515S	13 Ø	2.0	§S	3.0	1.0	375	4.0	350	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	F8	
34	TRL4015	13 Ø	2.0	§S	3.0	1.0	400	4.0	400 §	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	F8	
35#	BLY36†	109	12	§S	2.5		40	4.0	20		5.0Ø	10	10	60 Ø	450M§				TO60	A☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD DIAGRAM
1#	2SC1374H	600M§△	7.0n	6.0n	10n	6.0n	300m	1.0 Ø	70mØ	30 △	11	3.5pⓋ		N-PE	Si	175J	TO18	A
2	2N4858A		8.0n	8.0nØ		80nØ	1.8 Ø				60 §	10p§		N-Ⓥ	Si	200S	TO18	DB
3	2N4861A		8.0n	8.0nØ		80nØ	1.8 Ø				60 §	10p§		N-Ⓥ	Si	200S	TO18	DB
4	2N5639		8.0n	10n		20n	310m					10p§		N§Ⓥ	Si	150S	TO92	DD
5	2N5654		8.0n	10n		20n	310m					10p§		N§Ⓥ	Si	150S	TO92	DD
6	2N2059	50M§△	8.0nØ			25nØ	60	.50 Ø	50m	20 △	20			P	Ge	100S	TO1	A
7	2N2258	250M§△	8.0nØ			7.0nØ	150m	1.0 Ø	10m	30		8.0pⓋ	75nt	P-ME	Ge	100J	TO1	A
8	2N2259	250M§△	8.0nØ			7.0nØ	150m	1.0 Ø	10m	50		8.0pⓋ	75nt	P-ME	Ge	100J	TO1	A
9#	2SC131	350M§	8.0nt		20nt	20nt	350m	1.0 Ø	10mØ	60	7.0	4.0p		N-PE	Si	175J	TO18	
10#	2SC132	350M§	8.0nt		20nt	20nt	350m	1.0 Ø	10mØ	60	7.0	4.0p		N-PE	Si	175J	TO18	
11#	2SC133	350M§	8.0nt		20nt	20nt	350m	1.0 Ø	10mØ	60	8.0	4.0p		N-PE	Si	175J	TO18	
12#	2SC137	350M§	8.0nt		20nt	30nt	350m	1.0 Ø	10mØ	50	7.0	4.0p		N-PE	Si	175J	TO18	
13#	MEF4856		9.0nØ			25nØ	360m				25 §	18p§Ⓥ		N§	Si	200S	TO106	DB
14#	MEF4859		9.0nØ			25nØ	360m				25 §	18p§Ⓥ		N§	Si	200S	TO106	DB
15#	BSY38	350M§	9.0nØt			25nØt	300m	350mØ	10mØ	60 Ⓥ	6.0	5.0p		N-PE	Si	175J	TO18	Ø
16#	BSY39	350M§	9.0nØt			25nØt	300m	350mØ	10mØ	120 Ⓥ	6.0	5.0p		N-PE	Si	175J	TO18	Ø
17♦#	PE9001	400M§△	9.0nØt			15nØt	250m	5.0 Ø	10mØ	340 Ⓥ	25	4.0pⓋ		N-PE	Si	125S	R110c	A
18♦#	PE9002	400M§△	9.0nØt			15nØt	250m	5.0 Ø	10mØ	340 Ⓥ	25	4.0pⓋ		N-PE	Si	125S	R110c	A
19	2N2784	1.0G§△	9.0nØ		5.0n	9.0nØ	500mØ$	1.0 Ø	30m	20 △	86	3.0pⓋ		N	Si	200J	TO18	AØ
20	2N2784/46	1000M§	9.0nØ		5.0n	9.0nØ	400m	500mØ	10mØ	40 △	87	3.0pⓋ		N-PE	Si	200J	TO46	
21	2N3633	1300M§△	9.0nØ		5.0n	9.0nØ	300m	500mØ	10mØ	150 Ⓥ	70	2.5pⓋ		N-PE	Si	200J	TO18	AØ
22	2N3970		10n	10n	30nØ		1.8				30 §			N	Si	200S	TO18	DBØ
23	JAN2N4091		10n			40nØ	360m					16p§Ⓥ		N-Ⓥ	Si	175A	TO18	DBØ
24	2N4091A		10n	15n		40nØ	1.8 Ø				30 §	16p§Ⓥ		N§	Si	200S	TO18	DBØ
25	2N4858		10n	10n	100nØ		360m				60 §	18p§Ⓥ		N-Ⓥ	Si	200S	TO18	DBØ
26	2N4861		10n	10n	100nØ		360m				60 §	18p§Ⓥ		N-Ⓥ	Si	200S	TO18	DBØ
27	2N4978		10n	50n	40nØ		1.8 Ø				20 §	35p§		N	Si	200S	TO18	DBØ
28	2N5114		10n			15n	500m				75 §	25p§Ⓥ		P-Ⓥ	Si	200S	TO18	DAØ
29	JAN2N5114		10n			15n	500m					25p§Ⓥ		P	Si	200J	TO18	DAØ
30	2N5640		10n	15n		30n	310m					10p§		N§Ⓥ	Si	150S	TO92	DD
31#	2SA558		10nt		90nt	25nt	350m	1.0 Ø	10mØ	50	12			P-PE	Si	175J	TO18	AØ
32#	2SA559		10nt		90nt	25nt	350m	1.0 Ø	10mØ	50	12			P-PE	Si	175J	TO18	AØ
33#	2SA559A		10nt		90nt	25nt	350m	1.0 Ø	10mØ	50	12			P-PE	Si	175J	TO18	AØ
34#	2SC565		10nt		100nt	25nt	350m	1.0 Ø	10mØ	45	20			N-PE	Si	175J	TO18	AØ
35	3N169		10n			15n	800mØ					5.0p§		N	Si	200S	TO72	DRØ
36	3N170		10n			15n	800mØ					5.0p§		N	Si	200S	TO72	DRØ
37	3N171		10n		15n	800mØ						5.0p§		N	Si	200S	TO72	DRØ
38#	BSV80		10n	10n		50nØ	350m				60 §			N§	Si	200J	TO18	DBØ
39	E175		10nt			20nt	350m				125 §	40p§Ⓥ		P§Ⓥ	Si	125A	R187	DA
40#	MEF4857		10nØ			50nØ	360m				40 §	18p§Ⓥ		N§	Si	200S	TO106	DB
41#	MEF4860		10nØ			50nØ	360m				40 §	18p§Ⓥ		N§	Si	200S	TO106	DB
42	MFE2006		10n	10n		40nØ	1.8 Ø					16p§Ⓥ		N-Ⓥ	Si	175J	TO18	DBØ
43	TIS75		10n	10nØ		100nØ	360m				60 §			N-PE§	Si	120S	R203	DE
44	U1897E		10n	15n		40nØ	300m				30 §	16pⓋ§		N§	Si	125J	R97b	DB
45	VMP1	1.0M	10nØ			10nØ	2.5 Ø	10	400m	270 §		50p§		N-MOS§	Si	150J	TO39	DA§
46	VMP2	1.0M	10nØ			10nØ	4.0 Ø	10	400m	270 §		50p§		N-MOS§	Si	150J	TO39	DA§
47	VMP11	1.0M	10nØ			10nØ	2.5 Ø	10	400m	270 §		50p§		N-MOS§	Si	150J	TO39	DA§
48	VMP12	1.0M	10nØ			10nØ	2.5 Ø	10	400m	270 §		50p§		N-MOS§	Si	150J	TO39	DA§
49	VMP21	1.0M	10nØ			10nØ	4.0 Ø	10	400m	270 §		50p§		N-MOS§	Si	150J	TO39	DA§
50	VMP22	1.0M	10nØ			10nØ	4.0 Ø	10	400m	270 §		50p§		N-MOS§	Si	150J	TO39	DA§
51#	BSY24	90.0M§	10nt	9.0nt	350nt	25nt	600m	2.0 Ø	500mØ	20	4.0	35pⓋ		N-PEØ	Si	150A	TO5	Ø
52#	BSY25	140M§	10nt	9.0nt	350nt	15nt	600m	2.0 Ø	500mØ	40		35pⓋ		N-PEØ	Si	150A	TO5	Ø
53#	2SA555	200M§	10nt		170nt	25nt	200m	1.0 Ø	10mØ	80	25	5.5p		P-PE	Si	125J	R195d	B
54	2N976	250M§△	10n				100m	.50 Ø	40mØ	25 △	8.5	.30pⓋ		P	Ge	100S	TO18	A
55	2N6375	300M§△	10n	6.0n	35n	10n	2.9 Ø	1.0 Ø	500mØ	30 △	2.5	10pⓋ		N	Si	200S	TO18	AØ
56	2N6376	300M§△	10n	6.0n	35n	10n	7.0 Ø	1.0 Ø	10mØ	60 △	2.5	10pⓋ		N	Si	200S	R169	AØ
57	2N4420	350M§△	10n	8.0n	15n	10n	360m	1.0 Ø	100mØ	25 △#		5.0p§Ⓥ		N	Si	150S	R203	A
58#	2SC134	350M§	10nt		100nt	25nt	350m	1.0 Ø	10mØ	60	3.0	4.0p		N-PE	Si	175J	TO18	
59#	2SC135	350M§	10nt		100nt	25nt	350m	1.0 Ø	10mØ	60	5.0	4.0p		N-PE	Si	175J	TO18	
60#	2SC136	350M§	10nt		100nt	25nt	350m	1.0 Ø	10mØ	60	5.0	4.0p		N-PE	Si	175J	TO18	
61	2N977	400M§△	10n		20n		150m	.30 Ø	40mØ	50 △	2.5	8.0pⓋ		P	Ge	100S	TO18	A
62	2N5187	400M§△	10n	8.0n	13n	8.0n	1.0 Ø	.40 Ø	30mØ	25 △	25	3.5pⓋ		N	Si	200S	TO52	AØ
63	2N3511	450M§△	10n	8.0n	12n	8.0n	360m	1.0 Ø	150mØ	120 Ⓥ	2.6	4.0pⓋ		N	Si	200	TO52	AØ
64	2N3648	450M§△	10n	8.0n	12n	8.0n	2.0 Ø	1.0 Ø	1.0mØ	15 △	25	4.0pⓋ		N	Si	200S	TO46	AØ
65	2N3320	600M§△	10n	10n	20n	15n	60m	.50 Ø	40mØ	40 △		3.0pⓋ		P	Ge	100S	TO18	A
66	2N3321	600M§△	10n	10n	25n	15n	60m	.50 Ø	40mØ	80 †△		3.5pⓋ		P	Ge	100S	TO18	A
67	2N3322	600M§△	10n	10n	30n	15n	60m	.50 Ø	40mØ	25 †△		3.5pⓋ		P	Ge	100S	TO18	A
68	2N4873	700M§△	10n	10n	15n	15n	1.2 Ø	1.0 Ø	10mØ	110 #△		4.0pⓋ		N	Si	200J	TO18	AØ
69	2N955A	1000M§	10n	4.5nt	5.0nt	8.0nt	150m	500mØ	30m	50				N-ME	Ge	100J	TO18	
70	2N955	1000M§	11nt	20nt	45nt	50nt	150m	500m	30m	30 △	16		4.0n	N-ME	Ge	100	TO18	
71#	MPS2369K		12nØ		13n	18nØ	1.2 Ø	1.0 Ø	10mØ	120 Ⓥ#	25 #	4.0pⓋ		N-PL	Si	175A	X167	A
72#	MPS2369L		12nØ		13n	18nØ	1.2 Ø	1.0 Ø	10mØ	120 Ⓥ#	25 #	4.0pⓋ		N-PL	Si	175A	X168	A
73#	MPS2369M		12nØ		13n	18nØ	1.2 Ø	1.0 Ø	10mØ	120 Ⓥ#	25 #	4.0pⓋ		N-PL	Si	175A	X169	A
74	2N5134	250M§△	12n	14n	13n	13n	200m	1.0 Ø	10mØ	20 #△		4p$Ⓥ		N	Si	125J	TO106	A
75	TIS109	250M§△	12nt	8.0nt	190nt	30nt	360m	10 Ø	1.0mØ	30 △		10pⓋ		N-PE†	Si	150S	R203	A
76	2N4421	300M§△	12n	10n	18n	12n	360m	400mØ	30mØ	25 △#		5.0p§Ⓥ		N	Si	150S	R203	A
77#	2SC400	300M§	12nt	10nt	200nt	30nt	250m	1.0 Ø	10mØ	350 *Ⓥ	50	6.0pⓋ		N-PE	Si	175J	TO18	AØ
78#	2SC1216	300M§	12ntØ		7.0mt	19ntØ	300m	1.0 Ø	10mØ	140	25	6.0pⓋ		N-PE	Si	150J	TO18	AØ
79#	BSX90	300M△§	12nØ			40nØ	300m	.35 Ø	10mØ	20 △#	10	5.0pⓋ		NPE	Si	175J	TO18	AØ
80#	BSX91	300M△§	12nØ			45nØ	300m	.35 Ø	10mØ	40 △#	10	5.0pⓋ		NPE	Si	175J	TO18	AØ
81	2N3510	350M§△	12n	10n	16n	12n	360m	1.0 Ø	150mØ	150 Ⓥ	2.6	4.0pⓋ		N	Si	200	TO52	AØ
82	2N3647	350M§△	12n	10n	16n	12n	2.0 Ø	1.0 Ø	1.0mØ	12 △	25	4.0pⓋ		N	Si	200S	TO46	AØ
83	2N2368	400M§△	12nØ	10n$		15nØ	1.2 Ø	2 0 Ø	100mØ	10 △	25m	4.0pⓋ		N	Si	200J	TO18	AØ
84	2N4294	400M§△	12n	9.0n	15n	15n	200m	2.0 Ø	100mØ	20 △	25	5.0pⓋ		N	Si	150S	X149	B
85#	BFV42	400M§△	12nØ			20nØ	150m	2.0 Ø	100mØ	15 △	30	4.0pⓋ		NPE	Si	200J	S5a	P
86#	BFV87	400M§△	12nØ		10n	18nØ	300m	2.0 Ø	100mØ	10 #△	25	4.0pⓋ		NPE	Si	200J	W5a	B
87#	BSV52R	400M§△	12nØ		13n	18nØ	200m	1.0 Ø	10m	120 Ⓥ	30			N-PE†	Si	150J	X156	C
88#	BSX19	400M§△	12nØ		10n	15nØ	360m	2.0 Ø	100mØ	10 △	25m	4.0p§		N	Si	200J	TO18	AØ
89#	ME9001	400M§△	12nØ			18nØ	625mØ	2.0 Ø	100mØ	20 △	25	4.0pⓋ		N-PE	Si	150J	R110c	A
90▼	MPS4274	400M§△	12nØ		13n	12nØ	200m	1.0 Ø	10mØ	35 △	18 #	4.0p§Ⓥ		N	Si	125S	TO92	A
91▼	MPS4275	400M§△	12nØ		13n	12nØ	200m	1.0 Ø	10mØ	35 △	20 #	4.0p§Ⓥ		N	Si	125S	TO92	A
92#	PL4021	400M§△	12nØ		10n	15nØ	150m	1.0 Ø	10mØ	60 Ⓥ	25	4.0pⓋ		NPE	Si	175S	S6	
93#	SSX19	400M§△	12nØ		13n	18nØ	250m	1.0 Ø	10mØ	20 △				N	Si	150J	X149	A
94#	SSX20	400M§△	12nØ		13n	18nØ	250m	1.0 Ø	10mØ	40 △				N	Si	150J	X149	A
95	THC4274	400M§△	12nØ		13n	12nØ		1.0 Ø	10mØ	35 △	20	4.0p		N	Si	200J	C4	TØ
96#	ZT2368	400M§△	12nØ	12nØ	15nØ	15nØ	360m	1.0 Ø	10mØ	20 △		4.0pⓋ		N-PL	Si	200	TO18	
97	2N2795	450M§	12n	12n	60n	25n	75m	.30 Ø	10mØ	100	12.	2.5p		P-D	Ge	100S	TO18	A
98	2N743A	500M§△	12nØ		10n	30nØ	360m	350mØ	10mØ	60 Ⓥ	35	3.0pⓋ		N-PE	Si	200J	TO18	A
99	2N744A	500M§△	12nØ		13n	30nØ	360m	350mØ	10mØ	120 Ⓥ	35	3.0pⓋ		N-PE	Si	200J	TO18	A
100	2N2369	500M§△	12nØ	13n$		18nØ	1.2 Ø	2.0 Ø	100mØ	20 △	25m	4.0pⓋ		N	Si	200J	TO18	AØ
101	2N2369A	500M§△	12nØ	13n$		18nØ	1.2 Ø	1.0 Ø	10mØ	120 #Ⓥ	20	4.0pⓋ		N-PE	Si	120S	TO18	AØ
102	JAN2N2369A	500M§△	12nØ		13n	18nØ	1.2 Ø	1.0 Ø	10mØ	120 #Ⓥ	20	4.0pⓋ		N	Si	200J	TO18	AØ
103	2N4295	500M§△	12n	12n	15n	15n	200m	2.0 Ø	100mØ	20 △	25	4.0pⓋ		N	Si	150S	X149	B
104	2N4418	500M§△	12n	10n	12n	14n	500mØ	1.0 Ø	10mØ	120 #Ⓥ	25	4p$Ⓥ		N†	Si	150S	R203	A
105	JAN2N4449	500M§△	12nØ		13n	18nØ	1.5 Ø	1.0 Ø	10mØ	120 #Ⓥ	20	4.0pⓋ		N	Si	200J	TO46	AØ
106	2N5029	500M§△	12n	10n	12n	14n	320m	2.0 Ø	100mØ	20 △#	2.5m#	4.0p$Ⓥ		N	Si	120J	TO98	B
107	2N5769	500M§△	12nØ			18nØ	625m	350mØ	10mØ	40 △#	20 #	4.0p$Ⓥ		N	Si	150S	TO92	A
108#	2SC601	500M§△	12nØ			18nØ	300m	1.0 Ø	10mØ	40 †△		2.4p		N-PE	Si	175J	TO18	
109#	2SC764	500M§△	12nØ		13n	18nØ	360m	1.0 Ø	10mØ	40 △		4.0pⓋ	100p	N-PE	Si	200J	TO18	AØ
110#	BFV28	500M§△	12nØ		6.0n	12nØ	150m	.40 Ø	30mØ	15 †△#		3.0pⓋ		NPE	Si	200J	S5a	P

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	M A T	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N4257A	500M§△	15n	10n	12n	10n	500mØ	500mØ	1.0mØ	15 △	15	3.0p$☑		P	Si	125J	R124	A
2#	BFV27	500M§△	15nØ		8 0n	20nØ	150m	.50 Ø	10mØ	20 †△#	133	3 0p☑		NPE	Si	200J	S5a	P
3	MM4257	500M§△	15n	10n	15n	10n	1.2 Ø	1.0 Ø	50mØ	30 △#	15	3 0p$☑		P-AN	Si	200J	TO18	AØ
4	2N5055	550M§△	15n	10n	20n	15n	500mØ	.50 Ø	30mØ	100 #☑	13	4.5p$		P	Si	125J	R124	A
5	2N709	600M§△	15nØ	6.0n$		15nØ	500 Ø$	1.0 Ø	30mØ	15 △	100	3.0p☑		N	Si	200J	TO18	AØ
6	2N5056	600M§△	15n	10n	30n	15n	1.2 Ø	.50 Ø	30mØ	100 #☑	13	4.5p$		P	Si	200J	TO18	AØ
7#	ME9003	600M§	15nØ			20nØ	625mØ	5.0 Ø	1.0mØ	30	250	2.0p		N-PE	Si	150J	R110c	A
8#	ZT709	600M§△	15nØ		6.0n	15nØ	300m	1 0 Ø	30mØ	45		2 1p		N-PL	Si	200J	TO18	Ø
9	2N4207	650M§△	15n	10n	15n	10n	300m	.30 Ø	10mØ	120 ☑	130	3.0p		P	Si	200J	TO18	AØ
10	2N3546	700M§△	15n	10n	20n	15n	360m	1.0 Ø	10mØ	120 #☑	5.0	6.0p☑		P	Si	200J	TO18	AØ
11	2N4208	700M§△	15n	10n	20n	10n	300m	.30 Ø	10mØ	120 ☑	130	3.0p		P	Si	200J	TO18	AØ
12	2N4258	700M§△	15n		20n	10n	500mØ	.50 Ø	1.0mØ	15 △	15	3p$☑		P	Si	125J	R110	A
13	2N4258A	700M§△	15n	10n	15n	10n	500mØ	500mØ	1.0mØ	15 △	15	3 0p$☑		P	Si	125J	R124	A
14	2N4313	700M§△	15n	10n	20n	15n	200m	500mØ	30mØ	120 △#		4.5p$		P	Si	125J	R124	A
15	2N5910	700M§△	15n	10n	20n	10n	310mØ	.30 Ø	10mØ	30 △				P	Si	135S	TO106	A
16	MM4258	700M§△	15n	10n	20n	10n	1.2 Ø	1.0 Ø	50mØ	30 △#	15	3.0p$☑		P-AN	Si	200J	TO18	AØ
17	MMT3546	700M§△	15n	10n	20n	15n	225m	1.0 Ø	100mØ	15 #△		6 0p☑		PAN	Si	135J	W6	C
18#	MA9002	750M§	15nØ			20nØ	360m	1.0 Ø	10mØ	30 △		4 0p☑		N-PE	Si	150J	TO18	
19#	MA9003	750M§	15nØ			20nØ	360m	1.0 Ø	10mØ	25 △		4.0p☑		N-PE	Si	150J	TO18	
20	2N709A	800M§	15nØ			15nØ	300m	500mØ	10mØ	60	100	3.0p☑		N-PE	Si	200J	TO18	AØ
21	2N5057	800M§△	15n	10n	30n	15n	1.2 Ø	.50 Ø	30mØ	100 #☑	13	4.5p$		P	Si	200J	TO18	AØ
22#	MT9002	800M§	15nØ			20nØ	100m	1.0 Ø	10mØ	30 †△		4.0p☑		N-PE	Si	150J	X173	B
23#	MT9003	800M§	15nØ			20nØ	100m	5.0 Ø	10mØ	25 †△		4.0p☑		N-PE	Si	150J	X173	B
24	2N4209	850M§△	15n	10n	20n	10n	300m	30 Ø	10mØ	120 ☑	150	3.0p		P	Si	200J	TO18	AØ
25	2N5771	850M§△	15n	10n	20n	10n	1.0 Ø	300mØ	10mØ	50 △	150 #	3 0p$☑		P	Si	150J	TO92	A
26	2N4872	900M§△	15n	10n	20n	10n	700m	.30 Ø	10mØ	50 #△	130	3.0p☑		P	Si	200J	TO18	AØ
27	2N709A46	1 0G§	15nØ			15nØ	400m	500mØ	10mØ	60	100	3.0p☑		NPE	Si	200J	TO46	
28	2N2456	1000M§△	15n		65nØ		150m	400mØ	30mØ	40 △	19	3.0p☑		P	Ge	100S	TO18	AØ
29	JAN2N3013	1.2G§☑	15nØ		18n	25nØ	1.2 Ø	1.0 Ø	300mØ	15 △		5.0p☑		N	Si	200J	TO52	AØ
30	2N709/46	1280M	15nØ			15nØ	400m	500mØ	10mØ	55	100	3.0p☑		N-PL	Si	200J	TO46	
31	MMCM2222	200M§△	16nØ†			160nØ†	200m	10 Ø	10mØ	75 △		3.5p		N-AN	Si	200J	W10	C
32#	BFY50☑	210M§	16n†	12n†	170n†	30n†	800m	10 Ø	10mØ	20 △	1.0	12p$☑		N-PE	Si	200J	TO39	AØ
33#	BFY51☑	230M§	16n†	12n†	200n†	35n†	800m	10 Ø	10mØ	30 △	1.6	12p$☑		N-PE	Si	200J	TO39	AØ
34#	BFY52☑	250M§	16n†	12n†	230n†	40n†	800m	10 Ø	10mØ	30 △	1.6	12p$☑		N-PE	Si	200J	TO39	AØ
35	2N743	280M§△	16nØ	14n$		24nØ	300m	250mØ	1.0mØ	10 △		5.0p☑		N	Si	200S	TO18	AØ
36	2N744	280M§△	16nØ	18n$		24nØ	300m	250mØ	1.0mØ	20 △		5.0p☑		N	Si	200S	TO18	AØ
37	JAN2N744	280M§△	16nØ	18n$		45nØ	300m	250mØ	1.0mØ	20 △		5.0p☑		N	Si	175J	TO18	AØ
38	2N851	280M§△	16nØ		14n	24nØ	1 2 Ø	350mØ	10mØ	20 △	35	5.0p☑		N	Si	200S	W5a	B
39	2N852	280M§△	16nØ		18n	24nØ	1.2 Ø	350mØ	10mØ	40 △	35	5.0p☑		N	Si	200S	W5a	B
40#	BSY17	280M§△	16nØ			24nØ	400m	350mØ	10mØ	60 ☑		2.7p		N-PE	Si	200J	TO18	A
41#	BSY18	280M§△	16nØ			24nØ	400m	350mØ	10mØ	300 ☑		2.7p		N-PE	Si	200J	TO18	A
42	EN744	282M§△	16nØ	18n$		24nØ	500mØ	350mØ	10mØ	40 #△		5.0p☑		N-DPE	Si	125J	TO106	A
43	2N3014	350M§△	16nØ	18n$	25nØ		1.2 Ø	.40 Ø	30mØ	120 #☑		5.0p☑		N	Si	200J	TO52	AØ
44#	BFV83C	350M§△	16nØ		18n	25nØ	300m	40 Ø	30mØ	30 #△		5 0p☑		NPE	Si	200J	W5a	B
45	EN3014	350M§△	16nØ		25nØ		200m	.40 Ø	30mØ	120 #☑	6.0	5.0p☑		N	Si	125J	TO106	A
46	GET3014	350M§△	16nØ		18n	25nØ	360m	400mØ	30mØ	120 ☑	18	4.5p$☑		N-PE	Si	125J	TO18	
47	MMT3014	350M§△	16nØ	18n$		25nØ	225m	400mØ	30mØ	200 ☑#	7.3	5.0p☑		N-AN	Si	135J	W6	D
48	MPS834	350M§△	16nØ		25n	30nØ	310m	1.0 Ø	10mØ	25 #△		4.0p☑		N-AN	Si	135J	TO92	A
49	2N834A	500M§△	16nØ		10n	24nØ	360m	1 0 Ø	10mØ	25 #	25	4.0p☑		N	Si	200J	TO18	AØ
50	2N6001	700M§△	17n	6.0n	170n	60n	800mØ	1.0 Ø	10mØ	100 △	10	8.0p$☑		P	Si	125J	R203a	A
51	2N6005	700M§△	17n	6.0n	170n	60n	800mØ	1.0 Ø	10mØ	100 △	10	8.0p$☑		P	Si	125J	R203a	A
52	2N6003	800M§△	17n	6.0n	200n	100n	800mØ	1.0 Ø	10mØ	250 △	10	8.0p$☑		P	Si	125J	R203a	A
53	2N6007	800M§△	17n	6 0n	200n	100n	800mØ	1.0 Ø	10mØ	250 △	10	8.0p$☑		P	Si	125J	R203a	A
54	JAN2N501A		18n		12n	10n	60m	500mØ	50mØ	30 △	5.0	3.0p☑		P	Ge	100S	R139	A
55	2N982		18n			18n	60m	.50 Ø	10mØ	50 △	3.6	2.5p☑		P△	Ge	100S	TO18	A
56	2N983		18n			18n	60m	.50 Ø	10mØ	40 △	4.0	2 5p☑		P△	Ge	100S	TO18	A
57	2N2168		18n			18n	60m	.50 Ø	10mØ	50 △	3.6	2.5p☑		P△	Ge	100S	TO9	A
58	2N2169		18n			18n	60m	.50 Ø	10mØ	40 △	4.0	2 5p☑		P△	Ge	100S	TO9	A
59	2N4256		18nØ	600 ▼		3.5nØ	200m	200mØ	50mØ	20 △	2.0m			N	Si	125S	TO98	B
60	MMT75		18n†	25n†	140n†	15n†	225m	1.0 Ø	10mØ	400 ☑		5.0p☑		P-ANØ	Si	135J	W6	C
61	2N501	90M§	18n		12n	10n	60m	500mØ	10mØ	20 △		5.0p☑		P-DA	Ge	100S	TO1	A
62	2N501A	90M§	18n		12n	10n	60m	500mØ	10mØ	30 △		3.0p☑		P-DA	Ge	100J	TO1	A
63	JAN2N1500	100M§△	18n		12n	10n	60m	500mØ	50mØ	14 △	4.0	3 0p☑		P	Ge	100J	TO9	A
64	2N783	200M§△	18nØ		10n	30nØ	1 0 Ø	1.0 Ø	10mØ	80 ☑	25	3.5p☑		N	Si	175J	TO18	AØ
65	2N5861	200M§△	18n	8.0n	35n	35n	5.0 Ø	1.0 Ø	500mØ	25 △	1.0	7.0p$☑		N	Si	200J	TO39	AØ
66	2N5860	250M§△	18n	8.0n	35n	35n	5.0 Ø	1.0 Ø	1.0 Ø	15 △	700m	7.0p$☑		N	Si	200J	TO39	AØ
67▼	MPS5134	250M§△	18nØ		18n	18nØ	625m	1.0 Ø	10mØ	20 △#	25 #	4.0p$☑		N	Si	150S	TO92	A
68	2N779	320M§△	18n			18n	60m	500mØ	10mØ	200 ☑	440m	2.5p☑		P	Ge	100S	TO18	A
69	CS4021	350M§△	18nØ	18n$		28nØ	200m	.50 Ø	100mØ	55 #		3.3p		N-E	Si	125J	R97a	A
70	GET3646	350M§△	18nØ		18n	28nØ	360m	400mØ	30mØ	120 ☑	80	4.5p$☑		N-PE	Si	125J	TO18	
71	2N3576	400M§△	18n	12n	30n	20n	360m	50 Ø	10mØ	120 ☑		4.5p☑		P	Si	200S	TO72	GØ
72#	BFV81B	400M§△	18n	12n	30n	20n	300m	.50 Ø	10mØ	20 △		4.5p		PPE	Si	200S	W5a	B
73	2N779A	450M§	18n	50n$		18n	60m	500mØ	50m	85 †	12	1.4p		P-MD	Ge	100S	TO18	A
74	2N846A	450M§	18n	50n		18n	60m	500mØ	50m	35	14	1.9p		P-MD	Ge	100S	TO18	A
75	2N3227	500M§△	18n	5.0n	13n	15n	1 2 Ø	1.0 Ø	10mØ	300 #☑		4.0p☑		N	Si	200J	TO18	AØ
76	2N3508	500M§△	18n	5 0n	13n	15n	400m	1 0 Ø	10mØ	120 #☑	14	4 0p☑		N	Si	200S	TO46	AØ
77	2N3509	500M§△	18n	5 0n	13n	15n	400m	1.0 Ø	10mØ	300 #☑	25	4.0p☑		N	Si	200S	TO46	AØ
78	2N5272	500M§△	18n	5.0n	13n	15n	360m	1.0 Ø	100mØ	30 △#		4p$☑		N	Si	200S	TO18	AØ
79	2N984		20n			20n	60m	.50 Ø	10mØ	20 △	5.0	3.0p☑		P△	Ge	100S	TO18	A
80	2N2097		20n		50n	40n	750mØ	1.0 Ø	200mØ	30 △	2.5	20p☑		P△	Ge	100S	TO31	AØ
81	2N2100		20n		50n	40n	750mØ	1.0 Ø	200mØ	30 △	2.5	20p☑		P△	Ge	100S	TO9	AØ
82	2N2100A		20n		50n	40n	300m	1 0 Ø	200mØ	30 △		20p☑		P	Ge	100S	TO9	
83	2N2170		20n			20n	60m	.50 Ø	10mØ	20 △	5.0	3.0p☑		P△	Ge	100S	TO9	A
84	JAN2N4092		20n			60nØ	360m					16p§☑		N-☑	Si	175A	TO18	DBØ
85	2N4092A		20n	15n		60nØ	1.8 Ø				50 §	16p§☑		N	Si	200S	TO18	DBØ
86	2N4445		20n	15n	20n	15n	400m					70p§☑		N	Si	200S	TO46	DDØ
87	2N4446		20n	15n	20n	15n	400m					70p§☑		N	Si	200S	TO46	DDØ
88	2N4447		20n	15n	20n	15n	400m					70p§☑		N	Si	200S	TO46	DDØ
89	2N4448		20n	15n	20n	15n	400m					70p§☑		N	Si	200S	TO46	DDØ
90	2N5018		20n	15n	50nØ		1 8 Ø				75 §	45p§		P	Si	200J	TO18	DAØ
91	2N5115		20n			30n	500m				100 §	25p§☑		P☑	Si	200S	TO18	DAØ
92	JAN2N5115		20n			30n	500m					25p§☑		P	Si	200J	TO18	DAØ
93	2N5158		20n	15n	20n	15n	400m				10 §	50p§		N	Si	200S	TO46	DDØ
94	2N5159		20n	15n	20n	15n	400m				7.0 §	50p§		N	Si	200S	TO46	DDØ
95	E105		20n†			20n†	350m				3.0 §	160p§☑		N§☑	Si	125A	R187	DB
96	E106		20n†			20n†	350m				6.0 §	160p§☑		N§☑	Si	125A	R187	DB
97	E107		20n†			20n†	350m				8.0 §	160p§☑		N§☑	Si	125A	R187	DB
98	E176		20n†			20n†	350m				250 §	40p§☑		P§☑	Si	125A	R187	DA
99#	MEF4391		20nØ			35nØ	360m				30 §	14p§☑		N§	Si	200S	TO106	DB
100#	MEF4392		20nØ			55nØ	360m				60 §	14p§☑		N§	Si	200S	TO106	DB
101#	MEF4393		20nØ			80nØ	360m				100 §	14p§☑		N§	Si	200S	TO106	DB
102#	MEF4858		20nØ			100nØ	360m				60 §	18p§☑		N§	Si	200S	TO106	DB
103#	MEF4861		20nØ			100nØ	360m				60 §	18p§☑		N§	Si	200S	TO106	DB
104	MFE2005		20n	15n		60nØ	1.8 Ø					16p§☑		N☑	Si	175J	TO18	DBØ
105	P1086E		20n	15n		50nØ	300m					45p§		P	Si	125J	R97b	DB
106	U240		20n	15nØ	20nØ	15n	400m					70p§		N§☑	Si	200S	TO52	DBØ
107	U241		20n	15nØ	20nØ	15n	400m					70p§		N§☑	Si	200S	TO52	DBØ
108	U242		20n	15nØ	20nØ	15n	400m					70p§		N§☑	Si	200S	TO52	DBØ
109	U243		20n	15nØ	20nØ	15n	400m					70p§		N§☑	Si	200S	TO52	DBØ
110	U290		20n			20n	300m				2.5	160p§☑		N§☑	Si	150A	TO52	DBØ

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1#	BSX75	100M§Δ	25nØ†			150nØ†	1.3 *Ø	10 Ø	150mØ	250 ☑#		8.0p		N-PE	Si	200J	TO18	AØ
2	KS6130	120M	25n	30n	100n	40n		5.0	20	15 Δ		200p		N-PE	Si	200J	TO3	☑
3	KS6124	150M	25n	40n	110n	60n		5.0	5.0	15 Δ		200p		N-PE	Si	200J	TO3	☑
4	KS6126	150M	25n	50n	130n	50n		5.0	10	15 Δ		200p		N-PE	Si	200J	TO3	☑
5	PT2635	170M§	25n	25n	300n	60n	2.5	28 Ø	350mØ	15 #Δ		30p		N	Si	200J	TO5	
6	PT2670	170M§	25n†	25n†	300n†	60n†	1.0m	20 Ø	350mØ	20 #Δ		25p		N	Si		TO5	
7	2N919	200M§Δ	25n$				360m	1.0 Ø	10mØ	60 ☑	20	7.0p☑		N	Si	200J	TO18	AØ
8	2N920	200M§Δ	25n$				360m	1.0 Ø	10mØ	120 ☑	20	7.0p☑		N	Si	200J	TO18	AØ
9	2N4404	200M§Δ	25n	15n	175n	35n	5.0 Ø	5.0 Ø	10mØ	40 #Δ		10p$☑		P	Si	200S	TO39	AØ
10	2N4405	200M§Δ	25n	15n	175n	35n	5.0 Ø	5.0 Ø	10mØ	100 #Δ		10p$☑		P	Si	200S	TO39	AØ
11#	2SA495G	200M§	25nØ†		300n†	35n†	200m	1.0 Ø	10mØ	240 ☑*	50	7.0p☑		P-PE†	Si	125S	R67a	B
12	D40D1	200M§	25nØ†		200n†	50n†	1.3 #	2.0 Ø	1.0 Ø	10 Δ	1.0			N†	Si	150S	B15b	F
13	D40D2	200M§	25nØ†		200n†	50n†	1.3 #	2.0 Ø	1.0 Ø	20 Δ	1.0			N†	Si	150S	B15b	F
14	D40D3	200M§	25nØ†		200n†	50n†	1.3 #	2.0 Ø	1.0 Ø	10 Δ				N†	Si	150S	B15b	F
15	D40D4	200M§	25nØ†		200n†	50n†	1.3 #	2.0 Ø	1.0 Ø	10 Δ	1.0			N†	Si	150S	B15b	F
16	D40D5	200M§	25nØ†		200n†	50n†	1.3 #	2.0 Ø	1.0 Ø	10 Δ	1.0			N†	Si	150S	B15b	F
17	D40D7	200M§	25nØ†		200n†	50n†	1.3 #	2.0 Ø	1.0 Ø	10 Δ	1.0			N†	Si	150S	B15b	F
18	D40D8	200M§	25nØ†		200n†	50n†	1.3 #	2.0 Ø	1.0 Ø	10 Δ	1.0			N†	Si	150S	B15b	F
19	2N2218A	250M§Δ	25n	10n	225n	60n	3.0 Ø	10 Ø	10mØ	35 Δ	2.0 #	8.0p☑		NØ	Si	200J	TO5	AØ
20	2N2221A	250M§Δ	25n	10n	225n	60n	1.8 Ø	10 Ø	1.0mØ	25 Δ	2.0 #	8.0p☑	.15n	N	Si	200J	TO18	AØ
21	2N2476	250M§Δ	25nØ		25n	45nØ	600m	.40 Ø	150mØ	20 Δ	1.5	10pØ		N	Si	200J	TO5	AØ
22	2N2477	250M§Δ	25nØ		25n	45nØ	600m	.40 Ø	150mØ	40 Δ	1.3	10p☑		N	Si	200J	TO5	AØ
23	2N2847	250M§Δ	25nØ			40nØ	360m	10 Ø	150mØ	140 †#Δ		8.0p☑		N	Si	200J	TO18	AØ
24	2N2848	250M§Δ	25nØ			40nØ	800m	10 Ø	150mØ	140 †#Δ		8.0p☑		N	Si	200J	TO5	AØ
25	2N3678	250M§Δ	25n	15n	190n	60n	800m	10 Ø	150mØ	40 #Δ		8.0p☑		N	Si	200J	TO5	AØ
26	2N5581	250M§Δ	25n	10n	225n	60n	2.0 Ø	10 Ø	10mØ	35 Δ		8.0p$☑		N	Si	200S	TO46	AØ
27	2N5845A	250M§Δ	25n	15n	38n	27n	1.5 Ø	1.0 Ø	500mØ	35 Δ#		9.0p$☑		N	Si	150J	TO92	A
28#	2SC980AG	250M§	25nØ		400n	30n	200m	1.0 Ø	10mØ	140 †☑		3.0p		N	Si	125J	R67a	
29#	2SC980G	250M§	25nØ		400n	30n	200m	1.0 Ø	10mØ	240 †☑		3.0p		N	Si	125J	R67a	
30#	BFV85	250M§Δ	25nØ†			200nØ†	360m	10 Ø	10mØ	75 Δ		8.0pØ		NPE	Si	175J	W5a	B
31#	BFV85A	250M§Δ	25n	10n	225n	60n	360m	10 Ø	10mØ	75 Δ		8.0p☑		N-PEØ	Si	175J	W5a	B
32#	BFV85B	250M§Δ	25nØ†			175nØ†	360m	10 Ø	10mØ	35 Δ		8.0p☑		NPE	Si	175J	W5a	B
33▼#	BSS79	250M§Δ	25n	10n	225n	60n	350n	10 Ø	150mØ	40 Δ		8.0p$☑		N	Si	150S	X156a	A
34	D2T2218A	250M§Δ	25n	10n	225n	60n	400m	10 Ø	150mØ	40 Δ	2.0	8.0p☑	150p	N	Si	200S	TO77	
35	KS6113	250M	25n	30n	100n	50n		5.0	2.0	15 Δ		35p		N-PE	Si	200J	TO60	☑
36	MPS2222	250M§Δ	25n	10n	225n	60n	1.5 Ø	10 Ø	100uØ	35 Δ	2.6 #	8.0p☑	150p	NANØ	Si	150J	R211	A
37#	MPS2222K	250M§Δ	25n	10n	225n	60n	1.2 Ø	10 Ø	10mØ	75 Δ#	2.6 #	8.0p☑		NPL	Si	175A	X167	A
38#	MPS2222L	250M§Δ	25n	10n	225n	60n	1.2 Ø	10 Ø	10mØ	75 Δ#	2.6 #	8.0p☑		NPL	Si	175A	X168	A
39#	MPS2222M	250M§Δ	25n	10n	225n	60n	1.2 Ø	10 Ø	10mØ	75 Δ#	2.6 #	8.0p☑		NPL	Si	175A	X169	A
40#	PL4051	250M§Δ	25nØ			150nØ	220m	10 Ø	10mØ	17 Δ		8.0p☑		NPE	Si	175S	S6	
41#	PL4052	250M§Δ	25n	10n	225n	60n	220m	10 Ø	10mØ	35 Δ		8.0p☑		N-PEØ	Si	175S	S6	
42#	PL4053	250M§Δ	25nØ			175nØ	220m	10 Ø	10mØ	35 Δ		8.0p☑		NPE	Si	175S	S6	
43#	PL4055	250M§Δ	25nØ			200nØ	220m	10 Ø	10mØ	75 Δ		8.0p☑		NPE	Si	175S	S6	
44#	ZT2476	250M§Δ	25nØ		25n	45nØ	600m	400m	150m	20 Δ	1.5	10p		N-PE	Si	200J	TO5	
45#	ZT2477	250M§Δ	25nØ		25n	45nØ	600m	400m	150m	40 Δ	1.3	10p		N-PE	Si	200J	TO5	
46	2N2219A	300M§Δ	25n	10n	225n	60n	3.0 Ø	10 Ø	1.0mØ	75 Δ	2.0 #	8.0p☑	.15n	N	Si	200J	TO5	AØ
47	2N2222A	300M§Δ	25n	10n	225n	60n	1.8 Ø	10 Ø	1.0mØ	50 Δ	2.0 #	8.0p☑	.15n	N	Si	200J	TO18	AØ
48	2N2957	300M§Δ	25n	15n	60n	35n	150m	1.0 Ø	50mØ	130		4.0pØ		P	Ge	100J	TO18	A
49	2N3451	300M§Δ	25n	10n	20n	12n	300m	300mØ	10mØ	120 ☑	16	5.5p☑		P	Si	200J	TO18	AØ
50	2N5582	300M§Δ	25n	10n	225n	60n	2.0 Ø	10 Ø	10mØ	75 Δ		8.0p$☑		N	Si	200S	TO46	AØ
51	40219	300M§Δ	25n$	25n$			360m	1.0 Ø	10mØ	30 †Δ		6.0pØ	300p	N	Si	200	TO52	Ø
52	A5T2222A	300M§Δ	25n†	10n†	225n†	60n†	1.2 Ø	10 Ø	1.0mØ	50 Δ		8.0pØ		N	Si	150S	R203	A
53#	BFV85C	300M§Δ	25n	10n	225n	60n	360m	10 Ø	10mØ	50 Δ		8.0pØ		NPE	Si	175J	W5a	B
54#	BSS27	300M§	25nØ			40nØ	800m	1.0 Ø	500mØ	25 Δ		8.0p$☑		N	Si	200J	TO39	AØ
55#	BSS28	300M§	25nØ			45nØ	800m	1.0 Ø	500mØ	30 Δ		8.0p$☑		N	Si	200J	TO39	AØ
56	D2T2219A	300M§Δ	25n	10n	225n	60n	400m	10 Ø	150mØ	100 Δ	2.0	8.0p☑	150p	N	Si	200S	TO77	
57	KS6104	300M	25n	20n	120n	20n		5.0	500m	15 Δ		25p		N-PE	Si	200J	TO39	
58	MPS2222A	300M§Δ	25n	10n	225n	60n	1.5 Ø	10 Ø	100uØ	35 Δ	2.0 #	8.0p☑	150p	NANØ	Si	150J	R211	A
59#	MPS2222AK	300M§Δ	25n	10n	225n	60n	1.2 Ø	10 Ø	10mØ	75 Δ#	2.0 #	8.0p☑		NPL	Si	175A	X167	A
60#	MPS2222AL	300M§Δ	25n	10n	225n	60n	1.2 Ø	10 Ø	10mØ	75 Δ#	2.0 #	8.0p☑		NPL	Si	175A	X168	A
61#	MPS2222AM	300M§Δ	25n	10n	225n	60n	1.2 Ø	10 Ø	10mØ	75 Δ#	2.0 #	8.0p☑		NPL	Si	175A	X169	A
62#	PL4054	300M§Δ	25n	10n	225n	60n	220m	10 Ø	10mØ	75 Δ		8.0pØ		N-PEØ	Si	175S	S6	
63	2N6010	330M§Δ	25n	12n	300n	100n	1.0 Ø	1.0 Ø	10mØ	100 Δ	5.0	10p$☑		N	Si	150J	R203a	A
64	2N6014	330M§Δ	25n	12n	300n	100n	1.0 Ø	1.0 Ø	10mØ	100 Δ	5.0	10p$☑		N	Si	150J	R203a	A
65	KS6110	350M	25n	25n	120n	50n		5.0	1.0	15 Δ		20p		N-PE	Si	200J	TO60	
66	KS6112	350M	25n	30n	100n	40n		5.0	1.0	15 Δ		20p		N-PE	Si	200J	TO60	
67	2N5186	400M§Δ	25nØ			25nØ	500mØ$	1.0 Ø	10mØ	25 Δ	30	3.0pØ		N	Si	200S	TO52	AØ
68#	ME6101	400M§	25n	10n	225n	60n	600mØ	10 Ø	1.0mØ	40	3.2	5.0p		P-PE	Si	150J	R110c	A
69	2N6012	420M§Δ	25n	12n	350n	150n	1.0 Ø	1.0 Ø	10mØ	250 Δ	5.0	10p$☑		N	Si	150J	R203a	A
70	2N6016	420M§Δ	25n	12n	350n	150n	1.0 Ø	1.0 Ø	10mØ	250 Δ	5.0	10p$☑		N	Si	150J	R203a	A
71#	ME6102	450M§	25n	10n	225n	60n	600mØ	10 Ø	1.0mØ	60	3.2	5.0p		P-PE	Si	150J	R110c	A
72▼#	2SC1376H	500M§	25nØ	5.0n†	12n†	40nØ	300m	1.0 Ø	150mØ	40 Δ	3.3	2.7p		N	Si	175J	TO18	A
73#	MA0491	500M§Δ	25nØ			35nØ	360m	1.0 Ø	30mØ	30 Δ		4.0p☑		P-PE	Si	150J	TO18	
74#	MA0492	500M§Δ	25nØ			35nØ	360m	1.0 Ø	30mØ	50 Δ		4.0p☑		P-PE	Si	150J	TO18	
75	JAN2N4029	600M§☑	25n	15n	175n	35n	500m	5.0 Ø	100mØ	300 ☑#	1.0 #	10p☑		P	Si	200J	TO18	AØ
76	JAN2N4033	600M§☑	25n	15n	175n	35n	800m	5.0 Ø	100mØ	300 ☑#	1.0 #	10p☑		P	Si	200J	TO39	AØ
77	JAN2N4405	600M§☑	25n	15n	175n	50n	5.0 Ø	5.0 Ø	500mØ	50 Δ#		10p☑		P	Si	200A	TO39	AØ
78#	ME0491	750M§	25nØ	25n$		35nØ	500mØ	1.0 Ø	10mØ	60	15	3.0p		P-PE	Si	150J	R110c	A
79#	ME0492	750M§	25nØ	25n$		35nØ	500mØ	1.0 Ø	10mØ	70	15	3.0p		P-PE	Si	150J	R110c	A
80	MM2614	200M§Δ	26nt☑			70nt☑	500m	10 Ø	150mØ	120 ☑	3.0	6.0p		P	Si	200J	TO18	A
81	MM2712	200M§Δ	26nt☑			70nt☑	500m	10 Ø	150mØ	300 ☑	3.0	6.0p		P	Si	200J	TO18	A
82	MM2613	250M§Δ	26nt☑			70nt☑	500m	10 Ø	150mØ	120 ☑	3.0	6.0p		N	Si	200J	TO18	A
83	MM2711	250M§Δ	26nt☑			70nt☑	500m	10 Ø	150mØ	300 ☑	3.0	6.0p		N	Si	200J	TO18	A
84#	BSY26	200M§Δ	27nØ		50n	130nØ	300m	2.0 Ø	50mØ	60 ☑	35	6.0p☑		N-PE	Si	175J	TO18	AØ
85#	BSY27	200M§Δ	27nØ		50n	130nØ	300m	2.0 Ø	50mØ	120 ☑	35	6.0p☑		N-PE	Si	175J	TO18	AØ
86	BCX46	60M§Δ	28nt	12nt	330nt	50nt	1.5 Ø	2.0 Ø	100mØ	140 #	1.0 #	15p☑		PAN	Si	150J	R210a	F
87	BCX48	60M§Δ	28nt	12nt	330nt	50nt	1.5 Ø	2.0 Ø	100mØ	140 #	1.0 #	15p☑		PAN	Si	150J	R210a	F
88	BCX50	60M§Δ	28nt	12nt	330nt	50nt	1.5 Ø	2.0 Ø	100mØ	140 #	1.0 #	15p☑		PAN	Si	150J	R210a	F
89	2N6067	150M§Δ	28n	17n	70n	25n	1.5 Ø	1.0 Ø	500mØ	25 Δ#		16p$☑		P	Si	150S	TO92	A
90	2N5845	200M§Δ	28n	17n	40n	30n	1.2 Ø	1.0 Ø	500mØ	25 Δ#		9.0p$☑		N	Si	135S	TO92	A
91	2N837		30nØ		50n	40n	300mØ	500m	10mØ	20 Δ	25	9.0p☑		P	Ge	100S	TO18	AØ
92	2N2173		30n	30n	100n	80n	240m	1.0 Ø	200mØ	30 Δ	2.0	6.0p☑		P	Ge	100S	TO39	AØ
93	2N4066		30n	20n		50nØ	1.7 Ø	15		1.5 §	500 §	7p§☑		P§	Si	175J	TO76	
94	2N4067		30n	20n		50nØ	1.7 Ø	15		2.5 §	250 §	7p§☑		P§	Si	175J	TO76	
95	2N4979		30n	10n	60nØ		1.8 Ø				40 §	35p§		N	Si	200J	TO18	DBØ
96	2N5116		30n			50n	500m				150 §	25p§☑		P☑	Si	200S	TO18	DAØ
97	2N5262		30nØ			60nØ	800m	1.0 Ø	100mØ	35 Δ	.80			N	Si	200S	R179n	AØ
98#	2SC1386H		30nØ			55nØ	800m	1.0 Ø	500mØ	20 Δ	1.6			N-PE	Si	175J	TO39	AØ
99▼#	2SC2069		30nt		50nt	50nt	350m	1.0 Ø	10mØ	80	7.0m			N-PE	Si	175J	TO18	AØ
100	3N162		30n	30nØ	160nØ	180n	2.0 Ø				100 §	20p§☑		P-MOS	Si	150S	TO33	DM
101	3N166		30n	15nØ		50nØ	300m	15	10m	1.5 §Δ	300 §	3.0p§		P-MOS§	Si	200S	TO99	
102	3N175		30n	25nØ	50nØ	150n	225m				200 §	5.0p§☑		NMOS☑	Si	200S	TO72	DR
103	3N181		30n	30nØ	50nØ	180n	300m				45 §	25p§☑		PMOS☑	Si	200S	TO72	DM
104	MFE3020		30n	20n		50nØ	600m	15		500u§Δ	500 §	7.0p§☑		P*☑		175J	TO76	
105	MFE3021		30n	20n		50nØ	600m	15		500u§Δ	250 §	7.0p☑§		P*☑		175J	TO76	
106	2N2541	10MΔ	30n	1.5n▼	1.0	30n	215m	500mØ	400mØ	40 Δ	5.0	20p☑		P	Ge	100S	TO5	A
107	TN63	20.0M§Δ	30n	10n	450n	120n	800m	10 Ø	150mØ	25 Δ				N-PEØ	Si	200J	TO5	A
108	TN64	20.0M§Δ	30n	10n	450n	120n	500m	10 Ø	150mØ	25 Δ				N-PEØ	Si	200J	TO18	A
109#	2H1254	25.0MΔ	30n				300m	10	2.0m	25		10pØ		P-ME	Si	175A	TO18	
110	HA9054	25.0MΔ	30n				250m	10	2.0m	25 †		10pØ		P-ME	Si	160A	TO18	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1#	ME9021	300M§△	30nØ			50nØ	625mØ	2.0 Ø	300mØ	10 △	25	6.0p☑		N-PE	Si	150J	R110c	A
2	MPS3639	300M§△	30n	10n	20n	12n	500mØ	300mØ	10mØ	30 #△	16	3.5p☑		P-E	Si	125J	R196a	
3	THC3724	300M§△	30n	10n	50n	25n		1.0 Ø	500mØ	35 △#	750m	12p☑		N	Si	200J	C17	TØ
4	THC3725	300M§△	30n	10n	50n	25n		1 0 Ø	300mØ	40 △#	950m	10p☑		N	Si	200J	C17	TØ
5#	2SC97A	350M§	30nØ		70n	90nØ	800m	1.0 Ø	500mØ	40 △#	1.2	10p☑		N-PE	Si	175J	TO39	AØ
6#	BSX88A	350M△§	30nØ			70nØ	360m	1.0 Ø	10mØ	30 △#	3.2	3.0p		NPE	Si	200J	TO18	AØ
7	MM5262	350M§	30nØ			60nØ	4.0 Ø	1 0 Ø	500mØ	40 △#	800m#	7 3p		N-AN	Si	200J	TO39	A
8	2N4423	400M§△	30n	15n	40n	15n	360m	500mØ	30mØ	150 ☑#		6.0p$☑		N	Si	150S	R203	A
9#	BSY34	400M§	30nØ			50nØ	2.6	1.0 Ø	100mØ	42 †	20	4.5p		N-DPE	Si	200J	TO39	AØ
10	MMT73	400M§△	30nØ			30nØ	225m	1.0 Ø	50mØ	20 △	20	5 0p☑		P-AN	Si	135J	W6	C
11	2N2938	500M§△	30nØ			30nØ	1.0 Ø	400mØ	50mØ	30 △#		4.0p☑		N	Si	200S	TO52	A
12♦	JAN2N3467	500M§☑	30n	10n	60n	30n	5.0 Ø	5.0 Ø	1.0 Ø	40 △#	1.2	25p☑		P	Si	200S	TO5	AØ
13♦	JAN2N3468	500M§☑	30n	10n	60n	30n	5.0 Ø	5 0 Ø	1.0 Ø	25 △#	1.2	25p☑		P	Si	200S	TO5	AØ
14	MPS3640	500M§△	30n	10n	20n	12n	1.0 Ø	1.0 Ø	50mØ	20 △#	20	3.5p☑		PAN	Si	150J	R210a	A
15#	ZT2938	500M§△	30nØ		15n	30nØ	300m	1.0 Ø	200m	60 #☑	8 0	4.0p☑		N-PE	Si	175J	TO18	Ø
16	2N2455	600M§△	30n		65nØ		150m	400mØ	30mØ	40 △	19	3.5p☑		P	Ge	100S	TO18	AØ
17	2N769	900M§	30n$				35m	500mØ	20m	55	24	1.5p		P-MD	Ge	100J	TO18	A
18#	2SC1071		33nØ†		12n†	27nØ†	300m	1.0 Ø	30mØ	83	6.8			N-PE	Si	175J	TO18	AØ
19	2N994		35nØ		45nØ		200m	.25 Ø	10mØ	140 ☑	18	6.0p☑		P	Ge	150S	TO18	AØ
20	2N2096		35n		70n	60n	750mØ	1.5 Ø	400mØ	15 △	3.0	20p☑		P△	Ge	100S	TO31	AØ
21	2N2099		35n		70n	60n	750mØ	1.5 Ø	400mØ	15 △	3.0	20p☑		P△	Ge	100S	TO9	AØ
22	JAN2N5116		35n			60n	500m					27p$☑		P	Si	200J	TO18	DAØ
23#	2SC1150		35nØ		50n	55nØ	800m	1.0 Ø	500mØ	50	1.2			N-PE	Si	175J	R216	A
24#	2SC1635		35nØ		50n	55nØ	800m	1.0 Ø	500mØ	50	1 2			N PE	Si	175J	R216a	AØ
25	3N176		35n	30nØ	55nØ	150n	225m				300 §	5.0p§☑		NMOS☑	Si	200S	TO72	DR
26	3N182		35n	35nØ	160nØ	180n	300m				60 §	25p§☑		PMOS☑	Si	200S	TO72	DM
27#	BSS23		35nØ			60nØ	1 5 Ø	1.0 Ø	100mØ	75 #	1.0	10p☑		N-PE	Si	200J	TO18	AØ
28#	BSV69		35nØ			60nØ	3.0 Ø*	1.0 Ø	100mØ	75 #	1.0	10p☑		N-PE	Si	200J	TO39	AØ
29	CM697		35nØ		35nØ		400m				15 §			N-E	Si	200J	R135d	DDØ
30	MEM563C		35n	25n		140nØ	650mØ	10	2.0m	2.0 §△	150 §	6.0p§		N*§	Si	125J	TO72	DR
31	THC3903		35n	35n	175n	50n		1.0 Ø	1.0mØ	35 △	20	4.0p$		N	Si	200J	C5	TØ
32	THC3904		35n	35n	200n	50n		1.0 Ø	1.0mØ	70 △	20	4.0p$		N	Si	200J	C5	TØ
33	U306		35n	25n		60n	350m				175 §	27p§		P§#	S9	150S	TO18	DAØ
34#	BFS92	40M§△	35n†	20n†	500n†	65n†	5.0 Ø#	5.0 Ø	1 0mØ	90 †	15	20p$☑		P	Si	200J	TO39	AØ
35#	BFS93	40M§△	35n†	20n†	500n†	65n†	5.0 Ø#	5.0 Ø	1.0mØ	90 †	15	20p$☑		P	Si	200J	TO39	AØ
36#	BFS94	40M§△	35n†	20n†	500n†	65n†	5.0 Ø#	5.0 Ø	1 0mØ	90 †	10	20p$☑		P	Si	200J	TO39	AØ
37#	BFS95	40M§△	35n†	20n†	500n†	65n†	5 0 Ø#	5.0 Ø	1.0mØ	90 †	10	20p$☑		P	Si	200J	TO39	AØ
38#	BFV30	140M§△	35nØ			150nØ	150m	.50 Ø	10mØ	30 △	30	7.0p☑		PPE	Si	200J	S5a	P
39	2N3444	150M§△	35n	15n	40n	30n	100m	1.0 Ø	500mØ	60 ☑#		12p☑		N	Si	200S	TO5	AØ
40	2N3554	150M§△	35n	15n	65n	40n	800m	1.0 Ø	750mØ	100 ☑		25p☑		N	Si	200S	TO5	AØ
41	2N3762A	150M§△	35n	8.0n	80n	35n	4.0 Ø	1.0 Ø	10mØ	35 △	1.0	15p☑		P	Si	200S	TO5	AØ
42	2N3763	150M§△	35n	8.0n	80n	35n	1.0	1.0 Ø	150mØ	40 △	10	15p☑		P	Si	200S	TO5	AØ
43	2N3764A	150M§△	35n	8.0n	80n	35n	2.0 Ø	1 5 Ø	1.0 Ø	80 ☑	1 4	15p☑		P	Si	200S	TO46	AØ
44	2N3765	150M§△	35n	8.0n	80n	35n	500m	1.5 Ø	1 Ø	20 △	10	15p☑		P	Si	200S	TO46	AØ
45	2N4969	150M§△	35n	20n	300n	80n	5.0mØ	10 Ø	10mØ	30 △#		8.0 $☑		N	Si	125S	TO106	A
46#	2SC1781H	150M§	35nØ†		300n†	350nØ†	1.0 Ø	3.0 Ø	10mØ	80 △	2.6	20p☑		N-PE	Si	175J	TO18	A
47	KS6118	150M	35n	30n	120n	50n		5.0	5.0	15 △		90p		N-PE	Si	200J	TO3	Ø
48	2N3244	175M§△	35n	15n	140n	45n	5.0 Ø	1 0 Ø	500mØ	50 #△		25p☑		P	Si	200J	TO5	AØ
49	2N3253	175M§△	35n	15n	40n	30n	5.0 Ø	1.0 Ø	375mØ	75 #☑		12p☑		N	Si	200J	TO5	AØ
50#	BFV55	175M§△	35n	15n	50n	30n	150m	1.0 Ø	500mØ	25 △	2 3	12p☑		NPE	Si	200J	S5a	P
51	2N3762	180M§△	35n	8.0n	80n	35n	1.0	1.0 Ø	150mØ	40 △	10	15p☑		P	Si	200S	TO5	AØ
52	2N3762S	180M§△	35n	8.0n	80n	35n	1 0	1.0 Ø	150mØ	40 △	10	15p☑		P	Si	200S	TO5	AØ
53	2N3764	180M§△	35n	8 0n	80n	35n	500m	1 5 Ø	1 Ø	30 △	10	15p☑		P	Si	200S	TO46	AØ
54	NS3762	180M§△	35n	8.0n	80n	35n	1.0	1 5 Ø	1.0 Ø	30 △#		18p		P	Si	200S	TO39	AØ
55	NS3763	180M§△	35n	8.0n	80n	35n	1.0	1.5 Ø	1 0 Ø	20 △#		18p		P	Si	200S	TO39	AØ
56	2N3502	200M§△	35n	25n	70n	50n	700m	10 Ø	10m	80 △	2.6	8.0p☑		P	Si	200J	TO5	AØ
57	2N3503	200M§△	35n	25n	70n	50n	700m	10 Ø	10m	80 △	2.6	8.0p☑		P	Si	200J	TO5	AØ
58	2N3504	200M§△	35n	25n	70n	50n	400m	10 Ø	10m	80 △	2.6	8.0p☑		P	Si	200J	TO18	AØ
59	2N3505	200M§△	35n	25n	70n	50n	400m	10 Ø	10m	80 △	2.6	8.0p☑		P	Si	200J	TO18	AØ
60	2N3644	200M§△	35n	25n	70n	50n	700mØ	10 Ø	100uØ	40 △		8.0p☑		P	Si	125J	R110a	A
61	2N3645	200M§△	35n	25n	70n	50n	700mØ	10 Ø	100uØ	40 △		8.0p☑		P	Si	125J	R110a	A
62	2N3905	200M§△	35n	35n	200n	60n	350m	1.0 Ø	100uØ	30 △#	2 5m#	4.5p☑		PØ	Si	150J	TO92	A
63	2N5382	200M§△	35n	35n	200n	60n	360m	1.0 Ø	100uØ	30 △		4.5p$☑		PØ	Si	150J	R207	A
64	2N5795	200M§△	35n	15n	100n	40n	600m	10 Ø	100uØ	40 △		8.0p$☑		P	Si	200S	TO78	
65	2N5796	200M§△	35n	15n	100n	40n	600m	10 Ø	100uØ	75 △		8.0p$☑		P	Si	200S	TO78	
66#	2SA876H	200M§	35nØ†		250n†	300nØ†	1.0 Ø	3.0 Ø	100uØ	20 △#	2.6	20p☑		PE	Si	175J	TO18	A
67#	2SA876HA	200M§	35nØ†		250n†	300nØ†	1.0 Ø	3.0 Ø	100uØ	20 △#	2.6	20p☑		PE	Si	175J	TO18	A
68#	2SA876HB	200M§	35nØ†		250n†	300nØ†	1.0 Ø	3.0 Ø	100uØ	20 △#	2.6	20p☑		PE	Si	175J	TO18	A
69#	2SA876HC	200M§	35nØ†		250n†	300nØ†	1.0 Ø	3.0 Ø	100uØ	20 △#	2.6	20p☑		PE	Si	175J	TO18	A
70#	A5T3504	200M§△	35n	25n	70n	50n	625m	10 Ø	150mØ	100 △	2.7	8.0p☑		P	Si	150S	R203	A
71#	A5T3505	200M§△	35n	25n	70n	50n	625m	10 Ø	150mØ	100 △	2.7	8.0p☑		P	Si	150S	R203	A
72♦	A5T3644	200M§△	35n	25n	70n	50n	625m	10 Ø	150mØ	300 ☑#	5.0 #	8.0p☑		P-†	Si	150S	R203e	A
73♦	A5T3645	200M§△	35n	25n	70n	50n	625m	10 Ø	150mØ	300 ☑#	5.0 #	8.0p☑		P-†	Si	150S	R203e	A
74	A5T3905	200M§△	35n	35n	200n	60n	360m	1.0 Ø	1.0mØ	40 △		4.5p☑		P-PEØ	Si	150S	R203	A
75▼	A8T3644	200M§△	35n	25n	70n	50n	625m	10 Ø	150mØ	300 ☑#	5.0 #	8.0p☑		P-†	Si	150S	R210a	A
76▼	A8T3645	200M§△	35n	25n	70n	50n	625m	10 Ø	150mØ	300 ☑#	5.0 #	8.0p☑		P-†	Si	150S	R210a	A
77#	BSS40	200M§△	35nØ		10n	250nØ	360m	1.0 Ø	500mØ	25 △#	2.0	10p$☑		N-PE	Si	200J	TO18	AØ
78#	BSS41	200M§△	35nØ		10n	250nØ	360m	1.0 Ø	500mØ	25 △#	2.0	10p$☑		N-PE	Si	200J	TO18	AØ
79	EN3905	200M§△	35n	35n	200n	60n	700mØ	1.0 Ø	10mØ	50 #△	25	4.5p☑		P-DPEØ	Si	135J	TO106	A
80	LDA452	200M§△	35nØ			150nØ	360m	10 Ø	300mØ	20 #△	2.6	8.0p		P-PE	Si	150J	S5	P
81	LDA453	200M§△	35nØ			150nØ	360m	10 Ø	300mØ	30 #△	2.6	8.0p		P-PE	Si	150J	S5	P
82	MM3905	200M§△	35n	35n	200n	60n	360m	1.0 Ø	100uØ	30 △#		5.0p☑		PANØ	Si	200J	TO52	A
83	MPS3644	200M§△	35n	25n	70n	50n	310m	10 Ø	150mØ	100 △#		8.0p		P	Si	135J	TO92	A
84	MPS3645	200M§△	35n	25n	70n	50n	310m	10 Ø	150mØ	100 △#		8.0p		P	Si	135J	TO92	A
85	NS3905	200M§△	35n	35n	200n	60n	360m	1.0 Ø	10mØ	50 △		4.5p☑		PØ	Si	200S	TO18	A
86	2N1204A	220M§△	35n				200m	.50 Ø	200m	25 △		8.0p☑		P	Ge	100	TO39	AØ
87	2N6011	240M§△	35n	10n	375n	50n	1.0 Ø	1.0 Ø	10mØ	100 △	8.0	15p$☑		P	Si	150J	R203a	A
88	2N6015	240M§△	35n	10n	375n	50n	1.0 Ø	1.0 Ø	10mØ	100 △	8.0	15p$☑		P	Si	150J	R203a	A
89♦	JAN2N2218A	250M§△	35nØ		18n*	300nØ	3.0 Ø	10 Ø	150mØ	40 #△	2.0	8.0p☑		N	Si	200S	TO39	AØ
90♦	JAN2N2219A	250M§△	35nØ		18n*	300nØ	3.0 Ø	10 Ø	150mØ	100 #△	2.0	8.0p☑		N	Si	200S	TO39	AØ
91	JAN2N2221A	250M§△	35nØ		18n*	300nØ	1.8 Ø	10 Ø	150mØ	120 #☑	2.0	8 0p☑		N	Si	200S	TO18	AØ
92	JAN2N2222A	250M§△	35nØ		18n*	300nØ	1 8 Ø	10 Ø	150mØ	300 #☑	2.0	8.0p☑		N	Si	200S	TO18	AØ
93	2N3250	250M§△	35n	35n	175n	50n	360m	1.0 Ø	10mØ	150 #☑		6.0p☑	.25n	P	Si	200J	TO18	AØ
94	2N3250A	250M§△	35n	35n	175n	50n	360m	1.0 Ø	10mØ	150 #☑	25	6.0p☑		P-EA	Si	200J	TO18	Ø
95	2N3251A	250M§△	35n	35n	200n	50n	360m	1.0 Ø	10mØ	300 #☑	25	6.0p☑		P-EA	Si	200J	TO18	AØ
96	2N3903	250M§△	35n	35n	175n	50n	350m	1.0 Ø	100uØ	20 △#	2.0m#	4.0p☑		NØ	Si	150J	TO92	A
97	2N3906	250M§△	35n	35n	225n	75n	350m	1.0 Ø	100uØ	60 △#	2.5m#	4.5p☑		PØ	Si	150J	TO92	A
98	2N4046	250M§△	35n	10n	50n	25n	3.5 Ø	1.0 Ø	300mØ	30 #△		12p☑		N	Si	200J	TO5	AØ
99	2N4047	250M§△	35n	10n	70n	30n	3.5 Ø	1.0 Ø	300mØ	30 #△		10p☑		N	Si	200J	TO5	AØ
100	2N5380	250M§△	35n	35n	175n	50n	360m	1.0 Ø	100uØ	20 △		4 0p$☑		NØ	Si	150J	R207	A
101	2N5383	250M§△	35n	35n	225n	75n	360m	1.0 Ø	100uØ	60 △		4.5p$☑		PØ	Si	150J	R207	A
102	JAN2N5581	250M§△	35nØ			300nØ	2.0 Ø	10 Ø	10mØ	40 △		8.0p☑		N	Si	200J	TO46	AØ
103	JAN2N5582	250M§△	35nØ			300nØ	2.0 Ø	10 Ø	10mØ	100 △		8.0p☑		N	Si	200J	TO46	AØ
104#	2SA499	250M§	35nØ†		250n†	35n†	250m	1.0 Ø	10mØ	200 ☑	40	5.0p		P-PE	Si	175J	TO18	AØ
105#	2SA500	250M§	35nØ†		250n†	35n†	250m	1.0 Ø	10mØ	200 ☑	40	5.0p		P-PE	Si	175J	TO18	AØ
106	A5T3903	250M§△	35n	35n	175n	50n	360m	1.0 Ø	1.0mØ	35 △		4.0p☑		N-PEØ	Si	150S	R203	A
107	A5T3906	250M§△	35n	35n	225n	75n	360m	1.0 Ø	1.0mØ	80 △		4.5p☑		P-PE†Ø	Si	150S	R203	A
108#	BCY70	250M§△	35n	35n	350n	80n	350m	1.0 Ø	10mØ	290 †	25	6.0p		P-PEØ	Si	200J	TO18	AØ
109#	BCY72	250M§△	35n	35n	350n	80n	350m	1.0 Ø	10mØ	290 †	25	6.0p		P-PEØ	Si	200J	TO18	AØ
110	EN3250	250M§△	35n	35n	175n	50n	200n	1.0 Ø	10mØ	50 △#		6.0p		P	Si	125J	TO106	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	M A T	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N2906	200M§△	40n	10n	80n	30n	400m	10 Ø	.10mØ	20 △		8.0pⓏ		P	Si	200S	TO18	AØ
2	2N2906A	200M§△	40n	10n	80n	30n	400m	10 Ø	.10mØ	40 △		8.0pⓏ		P	Si	200S	TO18	AØ
3	2N2907	200M§△	40n	10n	80n	30n	400m	10 Ø	.10mØ	35 △		8.0pⓏ		P	Si	200S	TO18	AØ
4	2N2907A	200M§△	40n	10n	80n	30n	400m	10 Ø	.10mØ	75 △		8.0pⓏ		P	Si	200S	TO18	AØ
5	2N2955	200M§△	40n	15n	40n	40n	150m	1.0 Ø	50mØ	60 Ⓩ	20	4.0pⓏ		P	Ge	100S	TO18	AØ
6	2N3485	200M§	40n	10n	80n	30n	2.0 Ø	10 Ø	100uØ	20 △	3.2	8.0pⓏ		P-EA	Si	200S	TO46	AØ
7	2N3485A	200M§	40n	10n	80n	30n	2.0 Ø	10 Ø	100uØ	40 △	3.2	8.0pⓏ		P-EA	Si	200S	TO46	AØ
8	2N3486	200M§	40n	10n	80n	30n	2.0 Ø	10 Ø	100uØ	35 △	3.2	8.0pⓏ		P-EA	Si	200S	TO46	AØ
9	2N3486A	200M§	40n	10n	80n	30n	2.0 Ø	10 Ø	100uØ	75 △	3.2	8.0pⓏ		P-EA	Si	200S	TO46	AØ
10	2N3671	200M§△	40n	10n	80n	30n	600m	10 Ø	10mØ	75 △		9.0pⓏ		P	Si	200S	TO5	AØ
11	2N3672	200M§△	40n	10n	80n	30n	400m	10 Ø	10mØ	75 △		9.0pⓏ		P	Si	200S	TO18	AØ
12	2N3673	200M§△	40n	10n	80n	30n	350m	10 Ø	10mØ	75 △		9.0pⓏ		P	Si	200S	TO46	AØ
13	2N3838	200M§△	40n	10n	250n	90n	350m	10 Ø	1.0mØ	50 △		8.0pⓏ			Si	200S	TO89	PB
14	2N4142	200M§	40n	10n	80n	30n	300m	10 Ø	150mØ	120 Ⓩ	3.2	8.0pⓏ		P	Si	125J	R110	A
15	2N4143	200M§	40n	10n	80n	30n	300m	10 Ø	150mØ	300 Ⓩ	3.2	8.0pⓏ		P	Si	125J	R110	A
16	2N4228	200M§△	40n	10n	80n	30n	300m	10 Ø	150mØ	150 Ⓩ	3.2	8.0pⓏ		P	Si	125J	R110	A
17♦	2N4854	200M§△	40n	20n	280n	70n	600m	10 Ø	1.0m	50 △		8p$Ⓩ		Ø	Si	200S	TO78	PA
18	2N4855	200M§△	40n	20n	280n	70n	600m	10 Ø	1.0m	25 △		8p$Ⓩ		Ø	Si	200S	TO78	PR
19	2N4970	200M§△	40n	25n	350n	90n	500mØ	10 Ø	150mØ	100 #△		8.0p$		N	Si	125S	TO106	A
20#	2SA742H	200M§△	40nØ			100nØ	3.0 Ø	5.0 Ø	150mØ	250 Ⓩ		8.0pⓏ		P-PE	Si	175J	TO39	AØ
21#	2SC395A	200M§△	40nØ		50n	30n	250m	1.0 Ø	10mØ	200 Ⓩ*	25	6.0pⓏ		N-PE	Si	175J	TO18	AØ
22	40218	200M§△	40nØ	25n$		75nØ	300m	1.0 Ø	10mØ	20 †△		5.0pⓏ		N	Si	175	TO52	Ø
23	40222	200M§△	40nØ	25n$		75nØ	300m	1.0 Ø	10mØ	20 †△		6.0pⓏ		N	Si	175	TO52	Ø
24	A5T2907	200M§△	40n	10n	80n	30n	1.6 Ø	10 Ø	1.0mØ	50 △	3.2 #	8.0pⓏ		P†	Si	150S	R203	A
25	A5T2907A	200M§△	40n	10n	80n	30n	1.6 Ø	10 Ø	1.0mØ	100 △	3.2 #	8.0pⓏ		P†	Si	150S	R203	A
26#	BFV49	200M§△	40nØ		35n	75nØ	150m	1.0 Ø	10mØ	30 △				NPE	Si	200J	S5a	P
27#	BFV86	200M§△	40n	10n	80n	30n	360m	10 Ø	10mØ	75 △		8.0pⓏ		PPE	Si	200S	W5a	B
28#	BFV86A	200M§△	40n	10n	80n	30n	360m	10 Ø	10mØ	100 △		8.0pⓏ		PPE	Si	200S	W5a	B
29#	BFV86B	200M§△	40n	10n	80n	30n	360m	10 Ø	10mØ	35 △		8.0pⓏ		PPE	Si	200S	W5a	B
30#	BFV86C	200M§△	40n	10n	80n	30n	360m	10 Ø	10mØ	40 △		8.0pⓏ		PPE	Si	200S	W5a	B
31#	BFW90	200M§	40n	15n	250n	50n	300m	5.0 Ø	10mØ	125	2.6			P-PL†	Si	125J	S1	A
32▼#	BSS80	200M§△	40n	10n	80n	30n	350m	10 Ø	150mØ	40 △		8.0p$Ⓩ		P	Si	150S	X156a	A
33#	BSW23	200M△§	40n	10n	80n	30n	700m	10 Ø	150mØ	40 △#	2.7	8.0pⓏ		PPE	Si	200J	TO50	AØ
34#	BSW24	200M△§	40n	10n	80n	30n	400m	10 Ø	150mØ	40 △#	2.7	8.0pⓏ		PPE	Si	200J	TO18	AØ
35#	BSW26	200M§△	40nØ			85nØ	1.8 Ø	2.0 Ø	100mØ	25 △	3.5	10pⓏ		N-PE	Si	200J	TO18	AØ
36#	BSW27	200M§△	40nØ			85nØ	3.0 Ø	2.0 Ø	100mØ	25 △	3.5	10pⓏ		N-PL	Si	200J	TO18	AØ
37#	BSW29	200M§△	40nØ			85nØ	5.0 Ø	2.0 Ø	100mØ	25 △	3.5	10pⓏ		N-PL	Si	200J	TO5	AØ
38#	BSX36	200M§△	40nØ			100nØ	1.2 Ø	10 Ø	1.0mØ	75		6.0p		P-DPE	Si	200J	TO18	AØ
39#	BSX89	200M△§	40nØ			75nØ	300m	10 Ø	10mØ	20 △#	60	2.5p		NPE	Si	175J	TO18	AØ
40#	BSY61	200M§△	40nØ		25n	75nØ	200m	1.0 Ø	10mØ	10	60			N-D†	Si	125J	TO92	B
41#	BSY62A	200M§△	40nØ			75nØ	400m	1.0 Ø	10mØ	60 Ⓩ		2.7p		N-PE	Si	200J	TO18	A
42#	BSY62B	200M§△	40nØ			75nØ	400m	1.0 Ø	10mØ	300 Ⓩ		2.7p		N-PE	Si	200J	TO18	A
43	D2T2904	200M§△	40n	10n	80n	30n	400m	10 Ø	150mØ	40 △	2.7	8.0pⓏ		P	Si	200S	TO77	
44	D2T2904A	200M§△	40n	10n	80n	30n	400m	10 Ø	150mØ	40 △	2.7	8.0pⓏ		P	Si	200S	TO77	
45	D2T2905	200M§△	40n	10n	80n	30n	400m	10 Ø	150mØ	100 △	2.7	8.0pⓏ		P	Si	200S	TO77	
46	D2T2905A	200M§△	40n	10n	80n	30n	400m	10 Ø	150mØ	100 △	2.7	8.0pⓏ		P	Si	200S	TO77	
47	GET2904	200M§△	40n	10n	80n	30n	700mØ	10 Ø	1.0mØ	25 △		8.0p$Ⓩ		P-PE	Si	125J	R208	
48	GET2905	200M§△	40n	10n	80n	30n	700mØ	10 Ø	1.0mØ	50 △		8.0p$Ⓩ		P-PE	Si	125J	R208	
49	GET2906	200M§△	40n	10n	80n	30n	700mØ	10 Ø	1.0mØ	25 △		8.0p$Ⓩ		P-PE	Si	125J	R207a	F
50	GET2907	200M§△	40n	10n	80n	30n	700mØ	1.0 Ø	1.0mØ	50 △		8.0p$Ⓩ		P-PE	Si	125J	R207a	F
51	MPS706	200M§△	40nØ			75nØ	310m	1.0 Ø	10mØ	20 △#		6.0pⓏ		NAN†	Si	135J	R196b	A
52	MPS706A	200M§△	40nØ			75nØ	310m	1.0 Ø	10mØ	60 Ⓩ#		6.0pⓏ		NAN†	Si	135J	R196b	A
53#	MPS706AK	200M§△	40nØ		25n	75nØ	1.2 Ø	1.0 Ø	10mØ	20 †△#	60 #			N-PL	Si	175A	X167	A
54#	MPS706AL	200M§△	40nØ		25n	75nØ	1.2 Ø	1.0 Ø	10mØ	20 †△#	60 #			N-PL	Si	175A	X168	A
55#	MPS706AM	200M§△	40nØ		25n	75nØ	1.2 Ø	1.0 Ø	10mØ	20 †△#	60 #			N-PL	Si	175A	X169	A
56#	MPS706K	200M§△	40nØ		60n	75nØ	1.2 Ø	1.0 Ø	10mØ	20 †△#	60 #	6.0pⓏ		N-PL	Si	175A	X167	A
57#	MPS706L	200M§△	40nØ		60n	75nØ	1.2 Ø	1.0 Ø	10mØ	20 †△#	60 #	6.0pⓏ		N-PL	Si	175A	X168	A
58#	MPS706M	200M§△	40nØ		60n	75nØ	1.2 Ø	1.0 Ø	10mØ	20 †△#	60 #	6.0pⓏ		N-PL	Si	175A	X169	A
59	MPS2907	200M§△	40n	10n	80n	30n	1.5 Ø	10 Ø	1.0mØ	50 △	2.6 #	8.0pⓏ		PAN	Si	150J	R211	A
60	MPS2907A	200M§△	40n	10n	80n	30n	1.5 Ø	10 Ø	1.0mØ	100 △	2.6 #	8.0pⓏ		PAN	Si	150J	R211	A
61	TIS112	200M§△	40n	10n	80n	70n	360m	10 Ø	1.0mØ	50 △		8.0pⓏ		P-PE†	Si	150S	R203	A
62#	ZT706A	200M§△	40nØ		25n	75nØ	300m	1.0 Ø	10mØ	60 Ⓩ				N-PL	Si	175J	TO18	Ø
63#	ZT1708	200M§△	40nØ		25n	50n	300m	1.0 Ø	10mØ	20 △		6.0pⓏ		N-PE	Si	175	TO46	
64#	ZT2205	200M§△	40nØ		25n	50n	300m	1.0 Ø	10mØ	20 △		6.0pⓏ		N-PE	Si	175	TO18	
65#	ZT2206	200M§△	40nØ		35n	40n	300m	1.0 Ø	10mØ	40 △		6.0pⓏ		N-PE	Si	175	TO46	
66	2N1410A	230M	40n	15n	170n	30n	800m	10 Ø	150m	60 #	2.0	12p		N-PL	Si	175J	TO5	A
67♦	JAN2N2218	250M§△	40nØ		18n*	250nØ	3.0 Ø	10 Ø	150mØ	40 #△	2.6	8.0pⓏ		N	Si	200S	TO39	AØ
68♦	JAN2N2219	250M§△	40nØ		18n*	250nØ	3.0 Ø	10 Ø	150mØ	100 #△	2.6	8.0pⓏ		N	Si	200S	TO39	AØ
69	JAN2N2221	250M§△	40nØ		18n*	250nØ	1.8 Ø	10 Ø	150mØ	120 #Ⓩ	2.6	8.0pⓏ		N	Si	200S	TO18	AØ
70	JAN2N2222	250M§△	40nØ		18n*	250nØ	1.8 Ø	10 Ø	150mØ	300 #Ⓩ	2.6	8.0pⓏ		N	Si	200S	TO18	AØ
71	2N2537	250M§△	40nØ		20n	40nØ	3.0 Ø	10 Ø	10mØ	30 △		8.0pⓏ		N	Si	200J	TO5	AØ
72	2N2538	250M§△	40nØ		20n	40nØ	3.0 Ø	10 Ø	10mØ	50 △		8.0pⓏ		N	Si	200J	TO5	AØ
73	2N2539	250M§△	40nØ		20n	40nØ	1.8 Ø	10 Ø	10mØ	30 △		8.0pⓏ		N	Si	200J	TO18	AØ
74	2N2540	250M§△	40nØ		20n	40nØ	1.8 Ø	10 Ø	10mØ	50 △		8.0pⓏ		N	Si	200J	TO18	AØ
75	2N2845	250M§△	40nØ			40nØ	360m	10 Ø	150mØ	120 †#△		8.0pⓏ		N	Si	200J	TO18	AØ
76	2N2846	250M§△	40nØ			40nØ	800m	10 Ø	150mØ	120 †#△		8.0pⓏ		N	Si	200J	TO5	AØ
77	2N3015	250M§△	40nØ		60nØ		3.0 Ø	10 Ø	150mØ	120 #Ⓩ		8.0pⓏ		N	Si	200J	TO5	AØ
78	2N3735	250M§△	40n	8.0n		60nØ	4.0 Ø	1.0 Ø	10mØ	35 △	20	9.0pⓏ		N	Si	200S	TO5	AØ
79	2N3737	250M§△	40n	8.0n		60nØ	2.0 Ø	1.0 Ø	10mØ	35 △	20	9.0pⓏ		N	Si	200S	TO46	AØ
80	2N4140	250M§△	40n	10n	250n	60n	300m	10 Ø	150mØ	120 Ⓩ	3.2	8.0pⓏ		N	Si	125J	R110	A
81	2N4141	250M§△	40n	10n	250n	60n	300m	10 Ø	150mØ	300 Ⓩ	3.2	8.0pⓏ		N	Si	125J	R110	A
82	2N4227	250M§△	40n	10n	250n	60n	300m	10 Ø	150mØ	150 Ⓩ	3.2	8.0pⓏ		N	Si	125J	R110	A
83	2N4951	250M§△	40nØ		350nØ		360m	10 Ø	10mØ	40 #△		8p$Ⓩ		N	Si	150S	TO98	B
84	2N4952	250M§△	40nØ		350nØ		360m	10 Ø	10mØ	75 △		8p$Ⓩ		N	Si	150S	TO98	B
85	2N4953	250M§△	40nØ		400nØ		360m	10 Ø	10mØ	150 △		8p$Ⓩ		N	Si	150S	TO98	B
86	2N4954	250M§△	40nØ		400nØ		360m	10 Ø	10mØ	40 △		8p$Ⓩ		N	Si	150S	TO98	B
87	2N5368	250M§△	40nØ			350nØ	360m	10 Ø	10mØ	40 #△		8p$Ⓩ		N	Si	150J	R207	A
88	2N5369	250M§△	40nØ			350nØ	360m	10 Ø	10mØ	75 #△		8p$Ⓩ		N	Si	150J	R207	A
89	2N5370	250M§△	40nØ			400nØ	360m	10 Ø	10mØ	150 #△		8p$Ⓩ		N	Si	150J	R207	A
90	2N5371	250M§△	40nØ			400nØ	360m	10 Ø	10mØ	40 #△		8p$Ⓩ		N	Si	150J	R207	A
91#	2SC619	250M§	40nØ		150n	250nØ	250m	6.0 Ø	10mØ	110 #	10	7.0p	100n	N-PE†	Si	125J	TO92	D
92#	2SC714	250M§	40nØ		150n	250nØ	250m	6.0 Ø	10mØ	60 #	10	7.0p	100n	N-PE†	Si	125J	TO92	D
93#	BFV54	250M§△	40nØ			60nØ	150m	.70 Ø	300mØ	10 △		8.0pⓏ		NPE	Si	200J	S5a	P
94#	BFV88A	250M§△	40nØ		20n	40nØ	360m	10 Ø	1.0mØ	20 △		8.0pⓏ		NPE	Si	200J	W5a	B
95#	BFV88B	250M§△	40nØ		20n	40nØ	360m	10 Ø	1.0mØ	35 △		8.0pⓏ		NPE	Si	200J	W5a	B
96#	BFV88C	250M§△	40nØ			60nØ	360m	.70 Ø	300mØ	10 #△		8.0pⓏ		NPE	Si	200J	W5a	B
97#	BSV59	250M	40nØ			40nØ	360m	10 Ø	150mØ	30 †				N	S	200	TO18	A
98#	BSX30	250M§△	40nØ			60nØ	3.0 Ø	700mØ	300mØ	50 #		8.0pⓏ		N-DPE	Si	200J	TO5	Ø
99#	ZTX360	250M§△	40nØ			75nØ	500m	1.0 Ø	500m	150 Ⓩ	1.2	10pⓏ		N-PL	Si	175A	X59	F
100	JAN2N708	300M§△	40nØ		25n	75nØ	1.2 Ø	1.0 Ø	500uØ	15 △	40	6.0pⓏ		N	Si	200S	TO18	AØ
101	2N914	300M§△	40nØ			40nØ	1.2 Ø	5.0 Ø	500mØ	10 #△		6.0pⓏ		N	Si	200J	TO18	AØ
102	2N1708A	300M§△	40nØ		25n	75nØ	1.0 Ø	1.0 Ø	10mØ	30 △	22	6.0pⓏ		N	Si	200J	TO46	AØ
103	2N2272	300M§△	40nØ		20n	40nØ	360m	1.0 Ø	10mØ	60 #△				N	Si	200	TO18	Ø
104	2N2481	300M§△	40nØ	40nØ	20n	45nØ	360m	1.0 Ø	10mØ	40 #△		5.0pⓏ		N	Si	200J	TO18	AØ
105	2N3210	300M§△	40nØ		20n	40nØ	1.2 Ø	1.0 Ø	10m	120 #△	3.7	6.0pⓏ		N	Si	300S	TO18	AØ
106	2N3606	300M§△	40nØ		35n	60nØ	200m	1.0 Ø	10mØ	30 △	25	6.0pⓏ		N	Si	150J	TO98	B
107	2N3606A	300M§△	40nØ	35n		60nØ	320m	1.0 Ø	10mØ	120 Ⓩ	2.5m#	6.0p$Ⓩ		N	Si	120J	TO98	B
108	2N3734	300M§△	40n	8.0n		60nØ	4.0 Ø	1.0 Ø	10mØ	35 △	20	9.0pⓏ		N	Si	200S	TO5	AØ
109	2N3734S	300M§△	40n	8.0n	40n	25n	4.0 Ø	1.0 Ø	500mØ	35 △	20	9.0pⓏ		N	Si	200S	TO5	AØ
110	2N3736	300M§△	40n	8.0n		60nØ	2.0 Ø	1.0 Ø	10mØ	35 △	20	9.0pⓏ		N	Si	200S	TO46	AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	UPT024	40M§	50nt∅			400nt∅	1.6	5 0 ∅	1.0 ∅	5.0 #	2 0 #	50p☑		N-PL	Si	200J	TO66	C∅
2	UPT025	40M§	50nt∅			400nt∅	1.6	5.0 ∅	1.0 ∅	5.0 #	2.0 #	50p☑		N-PL	Si	200J	TO66	C∅
3#	BSW39-6	50M§△	50n∅†			300n∅†	4.4 ∅*	2.0 ∅	10m∅	30 △		20p$☑		N-PE	Si	200J	TO39	A∅
4#	BSW39-10	50M§△	50n∅†			300n∅†	4.4 ∅*	2.0 ∅	10m∅	40 △		20p$☑		N-PE	Si	200J	TO39	A∅
5#	BSW39-16	50M§△	50n∅†			300n∅†	4 4 ∅*	2 0 ∅	10m∅	50 △		20p$☑		N-PE	Si	200J	TO39	A∅
6#	BSW40-6	50M§△	50n∅†			300n∅†	4.4 ∅*	2.0 ∅	10m∅	30 △		20p$☑		P-PE	Si	200J	TO39	A∅
7#	BSW40-10	50M§△	50n∅†			300n∅†	4 4 ∅*	2 0 ∅	10m∅	40 △		20p$☑		P-PE	Si	200J	TO39	A∅
8#	BSW40-16	50M§△	50n∅†			300n∅†	4 4 ∅*	2.0 ∅	10m∅	50 △		20p$☑		P-PE	Si	200J	TO39	A∅
9#	BSW40-25	50M§△	50n∅†			300n∅†	4.4 ∅*	2.0 ∅	10m∅	60 △		20p$☑		P-PE	Si	200J	TO39	A∅
10#	BSV84	60M§	50n	150n	400n	150n	800m	1.0 ∅	150m∅	70		25p		N	Si	200	TO39	A
11	2N1132/46	90.0M△	50n♦				400m	10 ∅	150m∅	30 #△	10	45p☑	35n	P-D	Si	200J	TO46	
12	2N4890	100M§△	50n	50n	200n	70n	5 0 ∅	2.5 ∅	150m∅	25 △	9.3	15p$		P	Si	200S	TO5	A∅
13	TQ59	100M§△	50n	10n	450n	120n	3.0 ∅	10 ∅	150m∅	100 △	20	10p☑		P-PE	Si	200J	TO5	A
14	TQ60	100M§△	50n	10n	450n	120n	1 8 ∅	10 ∅	150m∅	100 △	20	10p☑		P-PE	Si	200J	TO18	A
15	TQ61	100M§△	50n	10n	450n	120n	3.0 ∅	10 ∅	150m∅	50 △	20	10p☑		P-PE	Si	200J	TO5	A
16	TQ62	100M§△	50n	10n	450n	120n	1.8 ∅	10 ∅	150m∅	50 △	20	10p☑		P-PE	Si	200J	TO18	A
17	TQ63	100M§△	50n	10n	450n	120n	3.0 ∅	10 ∅	150m∅	25 △	20	10p☑		P-PE	Si	200J	TO5	A
18	TQ64	100M§△	50n	10n	450n	120n	1.8 ∅	10 ∅	150m∅	25 △	20	10p☑		P-PE	Si	200J	TO18	A
19#	BSV82	120M§	50n∅		250nt		10	1.0 ∅	500m∅	15 △		35p☑		P	Si	J	TO39	
20#	BCX58IX	125M§△	50nt	35nt	400nt	80nt	450m	5.0 ∅	2.0m∅	250 △	5.0	4.5p$☑		N-PE†	Si	150J	R204c	A
21#	BCX58VII	125M§△	50nt	35nt	400nt	80nt	450m	5.0 ∅	2.0m∅	120 △	5.0	4.5p$☑		N-PE†	Si	150J	R204c	A
22#	BCX58VIII	125M§△	50nt	35nt	400nt	80nt	450m	5.0 ∅	2.0m∅	180 △	5.0	4.5p$☑		N-PE†	Si	150J	R204c	A
23#	BCX58X	125M§△	50nt	35nt	400nt	80nt	450m	5.0 ∅	2.0m∅	380 △	5.0	4.5p$☑		N-PE†	Si	150J	R204c	A
24#	BCX59IX	125M§△	50nt	35nt	400nt	80nt	450m	5 0 ∅	2.0m∅	250 △	5.0	4 5p$☑		N-PE†	Si	150J	R204c	A
25#	BCX59VII	125M§△	50nt	35nt	400nt	80nt	450m	5 0 ∅	2.0m∅	120 △	5.0	4.5p$☑		N-PE†	Si	150J	R204c	A
26#	BCX59VIII	125M§△	50nt	35nt	400nt	80nt	450m	5.0 ∅	2.0m∅	180 △	5.0	4.5p$☑		N-PE†	Si	150J	R204c	A
27#	BCX59X	125M§△	50nt	35nt	400nt	80nt	450m	5.0 ∅	2.0m∅	380 △	5.0	4.5p$☑		N-PE†	Si	150J	R204c	A
28#	BCY65IX	125M§△	50nt	35nt	400nt	80nt	1.0 ∅*	5.0 ∅	2.0m∅	460 ☑	35	3.5p$		N-PE∅	Si	200J	TO18	A∅
29#	BCY65VII	125M§△	50nt	35nt	400nt	80nt	1 0 ∅*	5 0 ∅	2.0m∅	220 ☑	35	3.5p$		N-PE∅	Si	200J	TO18	A∅
30#	BCY65VIII	125M§△	50nt	35nt	400nt	80nt	1.0 ∅*	5.0 ∅	2.0m∅	310 ☑	35	3.5p$		N-PE∅	Si	200J	TO18	A∅
31	2N5372	150M§△	50n∅			150n∅	360m	10 ∅	10m∅	30 #△		10p$		P	Si	150J	R207	A
32	2N5373	150M§△	50n∅			150n∅	360m	10 ∅	10m∅	75 #△		10p$		P	Si	150J	R207	A
33	2N5374	150M§△	50n∅			175n∅	360m	10 ∅	10m∅	150 #△		10p$		P	Si	150J	R207	A
34	2N5375	150M§△	50n∅			175n∅	360m	10 ∅	10m∅	30 #△		10p$		P	Si	150J	R207	A
35#	2SA537AH	150M§	50n∅		300n	350n∅	750m	4 0 ∅	50m∅	30 △	3.3	35p		P-PE	Si	200J	TO39	A
36#	2SA537H	150M§	50n∅		300n	350n∅	750m	4.0 ∅	50m∅	30 △	3.3	35p		P-PE	Si	200J	TO39	A
37#	BCW61BA	150M§	50n	35n	400n	80n	150m	5.0 ∅	2.0m∅	470	35	6.0p☑		P-PE∅	Si	150J	X156a	A
38#	BCW61BB	150M§	50n	35n	400n	80n	150m	5.0 ∅	2.0m∅	250	35	6.0p☑		P-PE∅	Si	150J	X156a	A
39#	BCW61BC	150M§	50n	35n	400n	80n	150m	5.0 ∅	2.0m∅	350	35	6.0p☑		P-PE∅	Si	150J	X156a	A
40#	BCW61BD	150M§	50n	35n	400n	80n	150m	5.0 ∅	2.0m∅	500	35	6.0p☑		P-PE∅	Si	150J	X156a	A
41#	BCX71BG	150M§	50n	35n	400n	80n	150m	5.0 ∅	2.0m∅	170	35	6.0p☑		P-PE∅	Si	150J	X156a	A
42#	BCX71BH	150M§	50n	35n	400n	80n	150m	5.0 ∅	2.0m∅	250	35	6.0p☑		P-PE∅	Si	150J	X156a	A
43#	BCX71BJ	150M§	50n	35n	400n	80n	150m	5.0 ∅	2.0m∅	350	35	6.0p☑		P-PE∅	Si	150J	X156a	A
44#	BCX71BK	150M§	50n	35n	400n	80n	150m	5 0 ∅	2.0m∅	500	35	6.0p☑		P-PE∅	Si	150J	X156a	A
45	BCY58IX☑	150M§△	50nt	35nt	400nt	80nt	775m∅*	5.0 ∅	2.0m∅	350	35	6.0p$☑		NAN	Si	200J	TO18	A∅
46	BCY58VII☑	150M§△	50nt	35nt	400nt	80nt	775m∅*	5 0 ∅	2.0m∅	170	35	6 0p$☑		NAN	Si	200J	TO18	A∅
47	BCY58VIII☑	150M§△	50nt	35nt	400nt	80nt	775m∅*	5.0 ∅	2.0m∅	250	35	6.0p$☑		NAN	Si	200J	TO18	A∅
48	BCY58X☑	150M§△	50nt	35nt	400nt	80nt	775m∅*	5.0 ∅	2.0m∅	500	35	6.0p$☑		NAN	Si	200J	TO18	A∅
49	BCY59IX☑	150M§△	50nt	35nt	400nt	80nt	775m∅*	5.0 ∅	2.0m∅	350	35	6.0p$☑		NAN	Si	200J	TO18	A∅
50	BCY59VII☑	150M§△	50nt	35nt	400nt	80nt	775m∅*	5 0 ∅	2.0m∅	170	35	6.0p$☑		NAN	Si	200J	TO18	A∅
51	BCY59VIII☑	150M§△	50nt	35nt	400nt	80nt	775m∅*	5.0 ∅	2.0m∅	250	35	6.0p$☑		NAN	Si	200J	TO18	A∅
52	BCY59X☑	150M§△	50nt	35nt	400nt	80nt	775m∅*	5.0 ∅	2.0m∅	500	35	6.0p$☑		NAN	Si	200J	TO18	A∅
53#	BSW42	150M§△	50nt	20nt	200nt	50nt	300m	4 5 ∅	2.0m∅	75 △	6.0	8.0p☑		N-E	Si	125J	R110	A
54#	BSW42A	150M§△	50nt	20nt	200nt	50nt	300m	4.5 ∅	2.0m∅	75 △	6.0	8.0p☑		N-E	Si	125J	R110	A
55#	BSW43	150M§△	50nt	20nt	200nt	50nt	300m	4.5 ∅	2.0m∅	180 △	6.0	8.0p☑		N-E	Si	125J	R110	A
56#	BSW43A	150M§△	50nt	20nt	200nt	50nt	300m	4.5 ∅	2.0m∅	180 △	6.0	8.0p☑		N-E	Si	125J	R110	A
57#	BSX51	150M§△	50nt	20nt	200nt	50nt	300m	4.5 ∅	2.0m∅	225 ☑	6.0	5.0p		N-PE	Si	175A	TO18	∅
58#	BSX51A	150M§△	50nt	20nt	200nt	50nt	30m	4 5 ∅	2 0m∅	225 ☑	6.0	4.0p		N-PE	Si	175A	TO18	∅
59#	BSX52	150M§△	50nt	20nt	200nt	50nt	300m	4.5 ∅	2.0m∅	540 ☑	6.0	5.0p		N-PE	Si	175A	TO18	∅
60#	BSX52A	150M§△	50nt	20nt	200nt	50nt	300m	4.5 ∅	2.0m∅	540 ☑	6.0	4 0p		N-PE	Si	175A	TO18	∅
61	D41D1	150M§	50n∅†		75nt	40nt	1.0 #	2 0 ∅	1.0 ∅	10 △	1.0	10p$		P†	Si	150S	B15b	F
62	D41D2	150M§	50n∅†		75nt	40nt	1 0 #	2.0 ∅	1.0 ∅	20 △	1.0	10p$		P†	Si	150S	B15b	F
63	D41D4	150M§	50n∅†		75nt	40nt	1.0 #	2 0 ∅	1.0 ∅	10 △	1.0	10p$		P†	Si	150S	B15b	F
64	D41D5	150M§	50n∅†		75nt	40nt	1 0 #	2.0 ∅	1.0 ∅	20 △	1.0	10p$		P†	Si	150S	B15b	F
65	D41D7	150M§	50n∅†		75nt	40nt	1 0 #	2.0 ∅	1.0 ∅	10 △	2.0	10p$		P†	Si	150S	B15b	F
66	D41D8	150M§	50n∅†		75nt	40nt	1.0 #	2.0 ∅	1.0 ∅	20 △	2.0	10p$		P†	Si	150S	B15b	F
67	MPS3903	150M§△	50n	35n	800n	90n	625m	1.0 ∅	10m∅	150 ☑	20	4.0p☑		N	Si	150J	TO92	A
68	TZ551	150M§△	50n∅			150n∅	360m	10 ∅	1 0m∅	20 △		10p$		P-PL	Si	150J	TO98	B
69	TZ552	150M§△	50n∅			150n∅	360m	10 ∅	1.0m∅	50 △		10p$		P-PL	Si	150J	TO98	B
70	TZ553	150M§△	50n∅			175n∅	360m	10 ∅	1.0m∅	100 △		10p$		P-PL	Si	150J	TO98	B
71	40450	175M§	50n	25n	500n	75n	1.0	12 ∅	10m∅	175 †	1.2	20p$☑	20nt	N-PE†	Si	175J	R119	
72	40451	175M§	50n	25n	500n	75n	1.0	12 ∅	10m∅	200 †	1.0	20p$☑	20nt	N-PE∅	Si	175J	R119	
73#	2SC112	180M	50n		110n	17n	750m	2.0 ∅	200m	125 ☑		7.0p		N	Si	175	TO5	
74#	BCY77IX	180M§	50n	35n	400n	80n	1.0	5 0 ∅	2.0m∅	350		7 0p☑		P-PE∅	Si	200J	TO18	A
75#	BCY77VII	180M§	50n	35n	400n	80n	1.0	5.0 ∅	2.0m∅	170		7.0p☑		P-PE∅	Si	200J	TO18	A
76#	BCY77VIII	180M§	50n	35n	400n	80n	1.0	5.0 ∅	2.0m∅	250		7.0p☑		P-PE∅	Si	200J	TO18	A
77#	BCY78IX	180M§	50nt	35nt	400nt	80nt	1 0 ∅*	5.0 ∅	10u∅	270	25	7.0p$☑		P-PE∅	Si	200J	TO18	A∅
78#	BCY78VII	180M§	50nt	35nt	400nt	80nt	1.0 ∅*	5 0 ∅	10u∅	140	25	7.0p$☑		P-PE∅	Si	200J	TO18	A∅
79#	BCY78VIII	180M§	50nt	35nt	400nt	80nt	1.0 ∅*	5.0 ∅	10u∅	200	25	7.0p$☑		P-PE∅	Si	200J	TO18	A∅
80#	BCY78X	180M§	50nt	35nt	400nt	80nt	1.0 ∅*	5 0 ∅	10u∅	340	25	7.0p$☑		P-PE∅	Si	200J	TO18	A∅
81#	BCY79IX	180M§	50nt	35nt	400nt	80nt	1.0 ∅*	5.0 ∅	10u∅	270	25	7.0p$☑		P-PE∅	Si	200J	TO18	A∅
82#	BCY79VII	180M§	50nt	35nt	400nt	80nt	1.0 ∅*	5.0 ∅	10u∅	140	25	7.0p$☑		P-PE∅	Si	200J	TO18	A∅
83#	BCY79VIII	180M§	50nt	35nt	400nt	80nt	1 0 ∅*	5.0 ∅	10u∅	200	25	7.0p$☑		P-PE∅	Si	200J	TO18	A∅
84	2N3052	200M§△	50n	12n	35n	20n	350m	1.0 ∅	10m∅	130 ☑		8.0p☑		N*	Si	200S	TO89	
85	2N3830	200M§△	50n	10n	40n	30n	1 0	1.0 ∅	500m∅	30 #△		12p☑		N	Si	200S	TO5	A∅
86	2N3831	200M§△	50n	10n	40n	30n	1.0	1.0 ∅	500m∅	35 #△		12p☑		N	Si	200S	TO5	A∅
87	JAN2N5795	200M§△	50n∅			140n∅	500m	10 ∅	150m∅	40 △	3.2	8.0p☑		P	Si	200J	R131f	
88	JAN2N5796	200M§△	50n∅			140n∅	500m	10 ∅	150m∅	100 △	3.2	8.0p☑		P	Si	200J	R131f	
89#	2SC944	200M§△	50n∅			800n∅	250m	10 ∅	2 0m∅	60 △		3.0p☑		N-PE	Si	125J	TO92	B
90#	2SC944S	200M§△	50n∅			800n∅	250m	10 ∅	2.0m∅	400 *☑	20	3.0p☑		N-E	Si	125S	TO92	B
91	40458	200M§	50n	25n	500n	75n	500m	10 ∅	10m∅	150	1.0	20p$☑	20nt	N-DPE	Si	175J	R179d	
92	40459	200M§	50n	25n	500n	75n	1.0	10 ∅	10m∅	150	1.0	20p$☑	20nt	N-DPE	Si	175J	R119	
93#	BCX78IX	200M§	50n	35n	400n	80n	450m	5.0 ∅	2.0m∅	330 †	6.0	4.5p$☑		P-PL†∅	Si	150J	R204c	A
94#	BCX78VII	200M§	50n	35n	400n	80n	450m	5.0 ∅	2.0m∅	200 †	6.0	4.5p$☑		P-PL†∅	Si	150J	R204c	A
95#	BCX78VIII	200M§	50n	35n	400n	80n	450m	5.0 ∅	2.0m∅	260 †	6.0	4.5p$☑		P-PL†∅	Si	150J	R204c	A
96#	BCX78X	200M§	50n	35n	400n	80n	450m	5.0 ∅	2.0m∅	520 †	6.0	4.5p$☑		P-PL†∅	Si	150J	R204c	A
97#	BCX79IX	200M§	50n	35n	400n	80n	450m	5.0 ∅	2.0m∅	330 †	6.0	4.5p$☑		P-PL†∅	Si	150J	R204c	A
98#	BCX79VII	200M§	50n	35n	400n	80n	450m	5 0 ∅	2.0m∅	200 †	6.0	4.5p$☑		P-PL†∅	Si	150J	R204c	A
99#	BCX79VIII	200M§	50n	35n	400n	80n	450m	5.0 ∅	2.0m∅	260 †	6.0	4.5p$☑		P-PL†∅	Si	150J	R204c	A
100#	BCX79X	200M§	50n	35n	400n	80n	450m	5.0 ∅	2.0m∅	520 †	6.0	4.5p$☑		P-PL†∅	Si	150J	B17a	B∅
101#	BFY64	200M§△	50n∅			120n∅	3.0 ∅	10 ∅	1.0m∅	200		10p☑		P-DPE	Si	200J	TO5	A∅
102#	BSW28	200M§△	50n∅			85n∅	3.0 ∅	2.0 ∅	100m∅	25 △	3.5	10p☑		N-PL	Si	200J	TO5	A∅
103#	BSX53	200M§△	50n	75n	100n	50n	150m∅	1.0 ∅	50m∅	50 △		5.0p		N-PE	Si	175	TO18	
104#	BSX54	200M§△	50n	75n	100n	50n	150m∅	1.0 ∅	50m∅	50 △		5.0p		N-PE	Si	175	TO18	
105#	BSX79	200M§△	50n	75n	100n	50n	360m∅	1.0 ∅	50m∅	50 △		5.0p		N-PE	Si	175	TO18	
106#	MPS2907AK	200M§△	50n∅			110n∅	1.2 ∅	10 ∅	10m∅	100 △	2.6 #	8 0p☑		PPL	Si	175A	X167	A
107#	MPS2907AL	200M§△	50n∅			110n∅	1.2 ∅	10 ∅	10m∅	100 △	2.6 #	8.0p☑		PPL	Si	175A	X168	A
108#	MPS2907AM	200M§△	50n∅			110n∅	1.2 ∅	10 ∅	10m∅	100 △	2.6 #	8.0p☑		PPL	Si	175A	X169	A
109#	MPS2907K	200M§△	50n∅			110n∅	1.2 ∅	10 ∅	10m∅	75 △	2.6 #	8.0p☑		PPL	Si	175A	X167	A
110#	MPS2907L	200M§△	50n∅			110n∅	1.2 ∅	10 ∅	10m∅	75 △	2.6 #	8.0p☑		PPL	Si	175A	X168	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CONF
1#	BC212LA	200M§△	60nØ†			30nØ†	300m	5.0 Ø	2.0mØ	100 △†		10p☑		PE	Si	150S	TO92	B
2#	BC212LB	200M§△	60nØ†			30nØ†	300m	5.0 Ø	2.0mØ	200 △†		10p☑		PE	Si	150S	TO92	B
3#	BC213	200M§△	60nØ†			30nØ†	300m	5.0 Ø	2.0mØ	80 △#		10p☑		PE	Si	150S	R203	A
4#	BC213A	200M§△	60nØ†			30nØ†	300m	5.0 Ø	2.0mØ	100 △†		10p☑		PE	Si	150S	R203	A
5#	BC213B	200M§△	60nØ†			30nØ†	300m	5.0 Ø	2.0mØ	200 △†		10p☑		PE	Si	150S	R203	A
6#	BC213C	200M§△	60nØ†			30nØ†	300m	5.0 Ø	2.0mØ	350 △†		10p☑		PE	Si	150S	R203	A
7#	BC213K	200M§△	60nØ†			30nØ†	300m	5.0 Ø	2.0mØ	70 †△		10p☑		P-PEØ	Si	125A	R204a	A
8#	BC213KA	200M§△	60nØ†			30nØ†	300m	5.0 Ø	2.0mØ	300 †☑		10p☑		P-PEØ	Si	125A	R204a	A
9#	BC213KB	200M§△	60nØ†			30nØ†	300m	5.0 Ø	2.0mØ	400 †☑		10p☑		P-PEØ	Si	125A	R204a	A
10#	BC213KC	200M§△	60nØ†			30nØ†	300m	5.0 Ø	2.0mØ	600 †☑		10p☑		P-PEØ	Si	125A	R204a	A
11#	BC213L	200M§△	60nØ†			30nØ†	300m	5.0 Ø	2.0mØ	80 △#		10p☑		PE	Si	150S	TO92	B
12#	BC213LA	200M§△	60nØ†			30nØ†	300m			100 △†		10p☑		PE	Si	150S	TO92	B
13#	BC213LB	200M§△	60nØ†			30nØ†	300m			200 △†		10p☑		PE	Si	150S	TO92	B
14#	BC213LC	200M§△	60nØ†			30nØ†	300m			350 △†		10p☑		PE	Si	150S	TO92	B
15#	BC214	200M§△	60nØ†			30nØ†	300m			140 △#		10p☑		PEØ	Si	150S	R203	A
16#	BC214A	200M§△	60nØ†			30nØ†	300m			140 △†		10p☑		PEØ	Si	150S	R203	A
17#	BC214B	200M§△	60nØ†			30nØ†	300m			200 △†		10p☑		PEØ	Si	150S	R203	A
18#	BC214C	200M§△	60nØ†			30nØ†	300m			350 △†		10p☑		PEØ	Si	150S	R203	A
19#	BC214K	200M§△	60nØ†			30nØ†	300m	5.0 Ø	2.0mØ	125 †△		10p☑		P-PEØ	Si	125A	R204a	A
20#	BC214KB	200M§△	60nØ†			30nØ†	300m	5.0 Ø	2.0mØ	400 †☑		10p☑		P-PEØ	Si	125A	R204a	A
21#	BC214KC	200M§△	60nØ†			30nØ†	300m	5.0 Ø	2.0mØ	600 †☑		10p☑		P-PEØ	Si	125A	R204a	A
22#	BC214L	200M§△	60nØ†			30nØ†	300m			140 △#		10p☑		PEØ	Si	150S	TO92	B
23#	BC214LA	200M§△	60nØ†			30nØ†	300m			140 △†		10p☑		PEØ	Si	150S	TO92	B
24#	BC214LB	200M§△	60nØ†			30nØ†	300m			200 △†		10p☑		PEØ	Si	150S	TO92	B
25#	BC214LC	200M§△	60nØ†			30nØ†	300m			350 △†		10p☑		PEØ	Si	150S	TO92	B
26	EN706	200M§△	60n$				200m	1.0 Ø	10mØ	20 #△	90	6.0p☑		N	Si	125J	TO106	A
27	2N963	250M§△	60nØ			120nØ	150m	1.0 Ø	100mØ	20 △	20	5.0p☑		P	Ge	100S	TO18	AØ
28	2N967	250M§△	60nØ			120nØ	150m	1.0 Ø	100mØ	40 △	20	5.0p☑		P	Ge	100S	TO18	AØ
29	2N3299	250M§△	60nØ			150nØ	3.0 Ø	10 Ø	150mØ	120 #☑	1.2	8.0p☑		N	Si	200J	TO5	AØ
30	2N3300	250M§△	60nØ			150nØ	3.0 Ø	10 Ø	150mØ	300 #☑	1.2	8.0p☑		N	Si	200J	TO5	AØ
31	2N3301	250M§△	60nØ			150nØ	1.8 Ø	10 Ø	150mØ	120 #	1.2	8.0p☑		N	Si	200J	TO18	AØ
32	2N3302	250M§△	60nØ			150nØ	360m	10 Ø	150mØ	300 #	1.2	8.0p☑		N	Si	200J	TO18	AØ
33	2N4437	250M§△	60nØ			150nØ	500mØ	10 Ø	150mØ	300 #☑		8.0p☑		N†	Si	125J	R124	A
34#	ZT600	250M§△	60nØ			60nØ	5.0 Ø	1.0 Ø	150mØ	150 ☑	1.0	12p☑		N-PL	Si	200S	TO5	AØ
35#	2SA717	280M§	60nØ		130n	160nØ	5.0 Ø	10 Ø	50mØ	80	1.2	18p		P-E	Si	175S	TO39	AØ
36	2N2319	300M§△	60nØ		20n	50nØ	300m	.30 Ø	1.0m	20 △		5.0p☑		N	Si	200S	TO46	AØ
37#	BSX32	300M§△	60nØ			60nØ	3.5 Ø	1.0 Ø	100mØ	90 #		10p☑		N-DPE	Si	200J	TO5	Ø
38	BSX32☑	300M§△	60nØ			60nØ	3.5 Ø	1.0 Ø	10mØ	30 △	2.5	10p☑		NAN	Si	200J	TO39	A
39#	BSX35	300M§△	60nØ	30n$		60nØ	300m	1.0 Ø	50mØ	50 #		4.0p☑		P-DPE	Si	200J	TO18	Ø
40#	BFR10	350M§	60nØ		150nØ		800m	10 Ø	150mØ	60 △		5.0p		N	PE	200J	TO39	A
41#	BFR11	350M§	60nØ		150nØ		400m	10 Ø	500 Ø	40 △		5.0p		N	PE	200J	TO18	A
42#	BFV31	350M§△	60nØ			100nØ	150m	1.0 Ø	100mØ	15 △	20	8.0p☑		PPE	Si	200J	S5a	P
43#	BFV32	350M§△	60nØ			100nØ	150m	1.0 Ø	100mØ	10 △	20	8.0p☑		PPE	Si	200J	S5a	P
44#	BFX29	360M§	60nØ			150nØ	600m	10 Ø	100uØ	90	2.6	12p$☑		P-PE	Si	200J	TO5	AØ
45#	BFX87	360M§	60nØ			150nØ	600m	10 Ø	1.0mØ	40 △	2.6	12p$☑		P-PE	Si	200J	TO5	AØ
46#	BFX88	360M§	60nØ			150nØ	600m	10 Ø	1.0mØ	40 △	2.6	12p$☑		P-PE	Si	200J	TO5	AØ
47	2N2894	400M§△	60nØ			90nØ	360m	.50 Ø	30mØ	150 #☑		6.0p☑		P	Si	200J	TO18	AØ
48	2N3012	400M§△	60nØ		75nØ		1.2 Ø	.50 Ø	30mØ	120 #☑		6.0p☑		P	Si	200J	TO18	AØ
49	2N3209	400M§△	60nØ			90nØ	360m	500mØ	30mØ	30 #△	6.0	5.0p☑		P-PE	Si	200J	TO18	AØ
50	40217	400M§	60n$				300m	1.0 Ø	10mØ	20 †△		5.0p		N	Si	175	TO52	Ø
51#	BFV81	400M§△	60nØ			90nØ	300m	.50 Ø	30mØ	40 #△		6.0p☑		PPE	Si	200J	W5a	B
52#	BFV81A	400M§△	60nØ			75nØ	300m	.50 Ø	30mØ	30 #△		6.0p☑		PPE	Si	200J	W5a	B
53#	BSV21	400M§△	60nØ			75nØ	360m	.50 Ø	30mØ	120 #☑		6.0p☑		PPE	Si	200J	TO18	AØ
54#	BSV37	400M§△	60nØ			90nØ	350m	500mØ	30mØ	150 ☑	15	6.0p☑		P	Si	175J	X155	F
55#	BSX29	400M§△	60nØ			90nØ	1.2 Ø	500mØ	30mØ	60 #	5.0	6.0p☑		P-DPE	Si	200J	TO18	AØ
56#	TIS50	400M§△	60nØ			90nØ	360m	300mØ	10mØ	30 #△		6.0p☑		P-PE	Si	150J	TO92	
57#	ZTX510	400M§△	60n†Ø			90n†Ø	250m	500mØ	30mØ	150 ☑#		6.0p☑		P-PL†	Si	125A	X59	F
58	2N3304	500M§△	60nØ			60nØ	300m	.30 Ø	10mØ	63	10	3.5p☑		P	Si	200J	TO18	AØ
59	2N4449	500M§△	60n	9.0n	12n	8.0n	300m	.35 Ø	10mØ	40 #△		4p$☑		N	Si	200S	TO46	A
60#	MA0493	500M§△	60nØ			90nØ	360m	1.0 Ø	30mØ	30 △		4.0p☑		P-PE	Si	150J	TO18	
61#	ME0493	750M§	60nØ	75n$		90nØ	500mØ	1.0	10mØ	80	15	6.0p		P-PE	Si	150J	R110c	A
62	2N2894A	800M§△	60nØ		20n	20nØ	360m	500mØ	30mØ	120 #☑	4.5	4.5p		P	Si	200J	TO18	Ø
63#	2SC916		63nØ		190n	210nØ	2.0	1.0 Ø	400mØ	70	480m			N-PE	Si	175J	TO8	AØ
64	2N4351		65n	45n	160nØ		300m				300 §	5p§☑		N§	Si	200S	TO72	DR
65	2N4352		65n	45n	160nØ		300m				600 §	5p§☑		P§	Si	200S	TO72	DR
66	3N155		65n	45n		100n	300m				600 §	5.0p§☑		P§☑	Si	175J	TO72	DR
67	3N155A		65n	45n		100n	300m				400 §	5.0p§☑		P☑	Si	175J	TO72	DR
68	3N156		65n	45n		100n	300m				600 §	5.0p§☑		P§☑	Si	175J	TO72	DR
69	3N156A		65n	45n		100n	300m				400 §	5.0p§☑		P☑	Si	175J	TO72	DR
70	MEM562		65n			160nØ	650mØ	10	2.0m	1.0 §	300 §	3.0 §		N-MOS§	Si	125J	TO72	DR
71	2N3867	60M§△	65n	35n	500n	100n	6.0 Ø	3.0 Ø	2.5 Ø	25 △	1.0	120p☑		P	Si	200S	TO5	AØ
72	2N3868	60M§△	65n	35n	500n	100n	6.0 Ø	3.0 Ø	2.5 Ø	20 △	1.0	120p☑		P	Si	200S	TO5	AØ
73	2N6303	60M§△	65n	35n	500n	100n	6.0 Ø	1.0 Ø	500mØ	35 △#	500m#	120p$☑		P	Si	200S	TO5	AØ
74	2N1958	100M§△	65nØ		25n	45nØ	2.0 Ø	10 Ø	150mØ	40	3.0	18pF		N	Si	175J	TO5	AØ
75	2N1959	100M§△	65nØ		25n	45nØ	2.0 Ø	10 Ø	150mØ	120 △	3.0	18pF		N	Si	175J	TO5	AØ
76#	BFV50	175M§△	65nØ			70nØ	150m	10 Ø	500mØ	15 △	3.3	12pF		NPE	Si	200J	S5a	P
77	2N2410	200M§△	65nØ		40n	30n	2.5 Ø	10 Ø	150mØ	30 †#△		11pF		N	Si	200J	TO5	AØ
78	2N4972	200M§△	65n	25n	175n	60n	500mØ	10 Ø	150mØ	100 #△		8.0p$		P	Si	125S	TO106	A
79#	BFV88	200M§△	65nØ		40n	30n	360m	10 Ø	150mØ	75 #		11pF		NPE	Si	200J	W5a	B
80♦	JAN2N3867	240M§☑	65n	35n	500n	100n	10 Ø	5.0 Ø	3.0 Ø	20 △#	500m	120pF		P	Si	200S	TO5	AØ
81♦	JAN2N3868	240M§☑	65n	35n	500n	100n	10 Ø	5.0 Ø	3.0 Ø	20 △#	500m	120pF		P	Si	200S	TO5	AØ
82	BSX48☑	250M§△	65nØ			110nØ	1.0	1.0 Ø	1.0mØ	30	3.0	4.5p		NAN	Si	200J	TO18	A
83#	BSX48	400M§	65nØ			110nØ	1.0 Ø	1.0 Ø	10mØ	37 *△		4.5p$		N-DPE	Si	200J	TO18	AØ
84	2N725		70nØ			100nØ	150m		10mØ	20 △		5.0p		P-DME	Ge	100J	TO18	AØ
85	JAN2N1646		70nØ			100nØ	150m	500mØ	10mØ	15 △	60	5.0p☑		P	Ge	100S	R197	AØ
86#	2SA741H		70nØ			120nØ	298m#	.50 Ø	30mØ	120 ☑				P-PE	Si	175J	TO18	A
87	PT9501	1.0M	70n		1.5u	700n	625 Ø	80	300 Ø	10	16m			N	Si	200C		
88	PT9502	1.0M	70n		1.5u	700n	625 Ø	100	300 Ø	10	16m			N	Si	200C		
89	UPT411	10M§△	70n†		450n†	150n†	73 Ø§	5.0 Ø	2.5 Ø	10 △#	500m#	125pF		N-PL	Si	200J	TO3	CØ
90	UPT411A	10M§△	70n†		450n†	150n†	38 Ø§	5.0 Ø	2.5 Ø	10 △#	500m#	125pF		N-PL	Si	200J	TO66	CØ
91#	SFT229	25.0M	70nØ			70nØ	150m	500mØ	10mØ	75 △	9.0			P-A△	Ge	85J	TO5	
92	XGSR15025	25M§△	70nØ		350n	200n	100 Ø$	5.0 Ø	15 Ø	25 #	40m#	350pF		ND	Si	175J	TO3	CØ
93	XGSR15030	25M§△	70nØ		350n	200n	100 Ø$	5.0 Ø	15 Ø	20 #	40m#	350pF		ND	Si	175J	TO3	CØ
94	XGSR15035	25M§△	70nØ		350n	200n	100 Ø$	5.0 Ø	15 Ø	15 #	40m#	350pF		ND	Si	175J	TO3	CØ
95	2N1301	35M§△	70n	90n	90n	70n	150m	500mØ	40mØ	40				P-DM	Ge	85A	R179g	A
96	2N2192	50.0M§△	70n		150n	50n	2.8 Ø	10 Ø	.10mØ	15 △	2.3	20pF		N	Si	200J	TO5	AØ
97	2N2192A	50.0M§△	70n		150n	50n	2.8 Ø	10 Ø	.10mØ	15 △	1.7	20pF		N	Si	200J	TO5	AØ
98	2N2192B	50.0M§△	70n		150n	50n	2.8 Ø	10 Ø	.10mØ	15 △	1.2	20pF		N	Si	200J	TO5	AØ
99	2N2193	50M§△	70n		150n	50n	2.8 Ø	10 Ø	100uØ	15 △		20pF		N	Si	200J	TO39	AØ
100	2N2193A	50M§△	70n		150n	50n	2.8 Ø	10 Ø	100uØ	15 △		20pF		N	Si	200J	TO39	AØ
101	2N2193B	50.0M§△	70n		150n	50n	2.8 Ø	10 Ø	.10mØ	15 △	1.2	20pF		N	Si	200J	TO5	AØ
102	2N2194	50.0M§△	70n		150n	50n	2.8 Ø	10 Ø	150m	60 #☑	2.3	20pF		N	Si	200J	TO5	AØ
103	2N2194A	50.0M§△	70n		150n	50n	2.8 Ø	10 Ø	500mØ	12 #△	1.7	20pF		N	Si	200S	TO5	AØ
104	2N2194B	50.0M§△	70n		150n	50n	2.8 Ø	10 Ø	150mØ	20 #△	1.2	20pF		N	Si	200J	TO5	AØ
105	2N2350	50.0M§	70n		150n	50n	400m	10 Ø	150mØ	300 ☑#	2.3	20pF		N-PE	Si	200J	TO46	AØ
106	2N2350A	50.0M§	70n		150n	50n	400m	10 Ø	150mØ	300 ☑#	1.6	20pF		N-PE	Si	200J	TO46	AØ
107	2N2351	50.0M§	70n		150n	50n	400m	10 Ø	150mØ	120 ☑#	2.3	20pF		N-PE	Si	200J	TO46	AØ
108	2N2351A	50.0M§	70n		150n	50n	400m	10 Ø	150mØ	120 ☑#	1.6	20pF		N-PE	Si	200J	TO46	AØ
109	2N2352	50.0M§	70n		150n	50n	400m	10 Ø	150mØ	60 ☑#	2.3	20pF		N-PE	Si	200J	TO46	AØ
110	2N2352A	50.0M§	70n		150n	50n	400m	10 Ø	150mØ	60 ☑#	1.6	20pF		N-PE	Si	200J	TO46	AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG.
1	2N5321	50 0M§△	80nØ			800nØ	10 Ø	4.0 Ø	500mØ	250 ☑	1 6			N	Si	200J	TO5	AØ
2	2N6178	50M§△	80nØ			800nØ	10 Ø$	4.0 Ø	500mØ	30 △#	1.0 #			N	Si	150J	B24	AØ
3	2N6179	50M§△	80nØ			800nØ	10 Ø$	4.0 Ø	500mØ	40 △#	1 6 #			N	Si	150J	B24	AØ
4#	BSS15	50M§△	80nØ				10 Ø	4.0 Ø	500nØ	30 △				N-PE	Si		TO39	AØ
5#	BSS16	50M§△	80nØ				10 Ø	4.0 Ø	500mØ	40 △				N-PE	Si		TO39	AØ
6	RCP701A	50M§△	80nØ			800nØ	1.7	4.0 Ø	500mØ	50 △#	1.6 #	20p☑		N-DPE†	Si	150J	B12	P
7	RCP701B	50M§△	80nØ			800nØ	1.7	4.0 Ø	500mØ	50 △#	1 6 #	20p☑		N-DPE†	Si	150J	B12	P
8	RCP701C	50M§△	80nØ			800nØ	1.7	4.0 Ø	500mØ	50 △#	1.6 #	20p☑		N-DPE†	Si	150J	B12	P
9	RCP701D	50M§△	80nØ			800nØ	1 7	4.0 Ø	500mØ	50 △#	1.6 #	20p☑		N-DPE†	Si	150J	B12	P
10	RCP703A	50M§△	80nØ			800nØ	1 7	4.0 Ø	500mØ	50 △#	1.6 #	20p☑		N-DPE†	Si	150J	B12	P
11	RCP703B	50M§△	80nØ			800nØ	1 7	4.0 Ø	500mØ	50 △#	1.6 #	20p☑		N-DPE†	Si	150J	B12	P
12	RCP703C	50M§△	80nØ			800nØ	1.7	4.0 Ø	500mØ	50 △#	1.6 #	20p☑		N-DPE†	Si	150J	B12	P
13	RCP703D	50M§△	80nØ			800nØ	1.7	4 0 Ø	500mØ	30 △#	1.6 #	20p☑		N-DPE†	Si	150J	B12	P
14	RCP705	50M§△	80nØ			800nØ	1.7	4.0 Ø	500mØ	50 △#	2 4 #	20p☑		N-DPE†	Si	150J	B12	P
15	RCP705B	50M§△	80nØ			800nØ	1.7	4.0 Ø	500mØ	50 △#	2.4 #	20p☑		N-DPE†	Si	150J	B12	P
16	RCP707	50M§△	80nØ			800nØ	1.7	4.0 Ø	500mØ	20 △#	2.4 #	20p☑		N-DPE†	Si	150J	B12	P
17	RCP707B	50M§△	80nØ			800nØ	1.7	4.0 Ø	500mØ	20 △#	2 4 #	20p☑		N-DPE†	Si	150J	B12	P
18#	2SC850	70.0M§	80n		800n	150n	500m	4.0 Ø	10mØ	160				N	Si	175J	TO18	
19#	BSS44	70M§△	80nØ			450nØ	870m	2.0 Ø	2 0 Ø	70 #	100m#	100p$☑		P-PE	Si	200J	TO39	A
20#	2SC151H	80M§△	80nt	50nt	150nt	80nt	750mØ	6.0 Ø	10mØ	20 △	20	7 0p		N-E	Si	175J	TO39	A
21#	2SC152H	80M§△	80nt	50nt	150nt	80nt	750mØ	6 0 Ø	10mØ	20 △	20	7.0p		N-E	Si	175J	TO39	A
22#	2SC803	90 0M§	80n		2.0u	1.0u	5.0 Ø	4.0 Ø	400mØ	70	1.0	9.0p		N	Si	175J	TO5	AØ
23#	2SC458K	100M§△	80ntØ		220nt	300ntØ	200m	1.0 Ø	10mØ	60 △	40	4.0p☑		N-E	Si	125J	S8	B
24#	2SC1707AH	100M§△	80nØ†		220nt	300nØ†	200mØ	1.0 Ø	10mØ	100 △	8.0	3.5p☑		N-D	Si	175J	TO18	A
25#	2SC1707H	100M§△	80nØ†		220nt	300nØ†	200mØ	1.0 Ø	10mØ	100 △	8.0	3.5p☑		N-D	Si	175J	TO18	A
26#	ZT60	120M§△	80nØ			300nØ	350m	6.0 Ø	10mØ	38 △	40	8.0p☑		N-PEØ	Si	150J	TO5	Ø
27#	ZT61	120M§△	80nØ			300nØ	350m	6.0 Ø	10mØ	38 △	40	8.0p☑		N-PEØ	Si	150J	TO5	Ø
28#	ZT62	120M§△	80nØ			300nØ	350m	6.0 Ø	10mØ	75 △	8.0	8.0p☑		N-PEØ	Si	150J	TO5	Ø
29#	ZT63	120M§△	80nØ			300nØ	350m	6.0 Ø	10mØ	35 △	8.0	8.0p☑		N-PEØ	Si	200J	TO5	Ø
30#	ZT64	120M§△	80nØ			300nØ	350m	6 0 Ø	10mØ	75 △	8.0	8.0p☑		N-PEØ	Si	200J	TO5	Ø
31#	ZT66	120M§△	80nØ			300nØ	350m	6 0 Ø	10mØ	35 △	4.0	8.0p☑		N-PEØ	Si	200J	TO5	Ø
32#	ZT68	120M§△	80nØ			300nØ	750m	6.0 Ø	10mØ	35 △	40	8.0p☑		N-PEØ	Si	200J	TO5	Ø
33#	ZT80	120M§△	80nØ			300nØ	300m	6.0 Ø	10mØ	162 ☑	40	8.0p☑		N-PE	Si	150J	TO18	Ø
34#	ZT81	120M§△	80nØ			300nØ	300m	6.0 Ø	10mØ	162 ☑	40	8 0p☑		N-PE	Si	150J	TO18	Ø
35#	ZT82	120M§△	80nØ			300nØ	300m	6 0 Ø	10mØ	250 ☑	20	8.0p☑		N-PE	Si	150J	TO18	Ø
36#	ZT83	120M§△	80nØ			300nØ	300m	6 0 Ø	10mØ	85 ☑	20	8.0p☑		N-PE	Si	200J	TO18	Ø
37#	ZT84	120M§△	80nØ			300nØ	300m	6.0 Ø	10mØ	70 ☑	40	8.0p☑		N-PE	Si	200J	TO18	Ø
38#	ZT86	120M§△	80nØ			300nØ	300m	6.0 Ø	10mØ	85 ☑	40	8.0p☑		N-PE	Si	200J	TO18	Ø
39#	ZT87	120M§△	80nØ			300nØ	300m	6 0 Ø	10mØ	250 ☑	40	8.0p☑		N-PE	Si	200J	TO18	Ø
40#	ZT88	120M§△	80nØ			300nØ	300m	6.0 Ø	10mØ	170 ☑	20	8 0p☑		N-PLØ	Si	200J	TO18	Ø
41#	ZT89	120M§△	80nØ			300nØ	300m	6.0 Ø	10mØ	250 ☑	20	8.0p☑		N-PLØ	Si	200J	TO18	Ø
42#	ZT110	120M§△	80nØ			300nØ	300m	6.0 Ø	10mØ	162 ☑	40	8.0p☑		N-PLØ	Si	150J	TO46	Ø
43#	ZT111	120M§△	80nØ			300nØ	300m	6.0 Ø	10mØ	162 ☑	40	8.0p☑		N-PLØ	Si	150J	TO46	Ø
44#	ZT112	120M§△	80nØ			300nØ	300m	6.0 Ø	10mØ	250 ☑	40	8.0p☑		N-PLØ	Si	150J	TO46	Ø
45#	ZT113	120M§△	80nØ			300nØ	300m	6.0 Ø	10mØ	85 ☑	20	8.0p☑		N-PLØ	Si	200J	TO46	Ø
46#	ZT114	120M§△	80nØ			300nØ	300m	6.0 Ø	10mØ	170 ☑	20	8.0p☑		N-PLØ	Si	200J	TO46	Ø
47#	ZT116	120M§△	80nØ			300nØ	300m	6.0 Ø	10mØ	85 ☑	20	8 0p☑		N-PLØ	Si	200J	TO46	Ø
48#	ZT117	120M§△	80nØ			300nØ	300m	6.0 Ø	10mØ	250 ☑	40	8.0p☑		N-PLØ	Si	150J	TO46	Ø
49#	ZT118	120M§△	80nØ			300nØ	300m	6.0 Ø	10mØ	170 ☑	20	8.0p☑		N-PLØ	Si	200J	TO46	Ø
50#	ZT119	120M§△	80nØ			300nØ	300m	6.0 Ø	10mØ	250 ☑	20	8.0p☑		N-PLØ	Si	200J	TO46	Ø
51	2N2478	200M§△	80n		130n	55n	600m	1.5 Ø	150mØ	30 △		12p		N-PE	Si	175A	TO5	AØ
52#	V405A	400M§△	80nØ			110nØ	1.0 Ø	2.0 Ø	10mØ	20 #△			3.0n	P-DPE	Si	175J	TO18	Ø
53	2N2086	150M§△	85n		130n	55n	2 0 Ø	1.5 Ø	150mØ	20 △	4.5	12p☑		N	Si	175J	TO5	AØ
54	2N2087	150M§△	85n		100n	55n	2.0 Ø	1.0 Ø	150mØ	120 ☑	3.3	12p☑		N	Si	175J	TO5	AØ
55	2N4305		90n	50n	300n	100n	1.5	2 0 Ø	5.0mØ	10 #	.20 #	100p☑		N	Si	200J	TO5	A
56	2N4306		90n	50n	300n	100n	4 0	2.0 Ø	5 0mØ	10 #△	.20 #	100p☑		N	Si	200J	T65	
57	2N4307		90n	50n	300n	100n	1.5	2.0 Ø	5.0mØ	10 #△	20 #	100p☑		N	Si	200J	TO5	A
58	2N4308		90n	50n	300n	100n	4.0	2.0 Ø	5.0mØ	10 #△	.20 #	100p☑		N	Si	200C	T65	
59	2N4309		90n	50n	300n	100n	1.5	2.0 Ø	5.0mØ	10 #△	.33 #	100p☑		N	Si	200J	TO5	A
60	2N4310		90n	50n	300n	100n	4 0	2.0 Ø	5.0mØ	10 #△	.33 #	100p☑		N	Si	200C	T65	
61	2N4311		90n	50n	300n	100n	1 5	2.0 Ø	5.0mØ	10 #△	.33 #	100p☑		N	Si	200J	TO5	AØ
62	2N4312		90n	50n	300n	100n	4.0	2.0 Ø	5.0mØ	10 #△	.33 #	100p☑		N	Si	200C	T65	
63	2N5865	100M§△	90n	30n	350n	150n	7 0 Ø	1.0 Ø	1.0mØ	40 △	2.5	20p$☑		P	Si	200S	TO39	AØ
64	2SA530H	200M§△	90nØ†		150nt	160nØ†	200m	1.0 Ø	10mØ	35 †△	12	8.0p☑		P-PE	Si	175J	TO18	A
65#	2SC1007	150M§△	95ntØ		195nt	240ntØ	300m	1.0 Ø	10mØ	80 △	7.0	5 5p☑		N-E	Si	150S	TO18	AØ
66#	2SC1776	220M§	95nt		190nt	240nt	300m	1.0 Ø	10mØ	150	7.0	5.0p		N-PE	Si	150J	R212	A
67	JAN2N559	1000M§☑	95n	50nØ	95n	100n	300mØ	500mØ	10mØ	120 †☑		6.0p☑		P	Ge	150S	TO18	AØ
68	2N1072		100nØ			300nØ	12 Ø	5.0 Ø	750mØ	15	2 6			N	Si	150J	TO38	AØ
69	JAN2N1072		100nØ			300nØ	12 Ø	5.0 Ø	750mØ	20 △	1.5	55p☑		N	Si	150S	TO38	A
70	2N1450		100n	100n	85n	85n	120m	1.0 Ø	10mØ	20 △				P-AD	Ge	85S	TO9	
71	JAN2N1450M		100nØ			85nØ	120m	1.0 Ø	10mØ	10 △	25			P	Ge	100S	R179e	
72	2N3966		100n	20n		100nØ	320m				220 §	6.0p§		N	Si	200S	TO72	DH
73#	2SC1876H		100nØ†			600nØ†	800mØ	10 Ø	1.0mØ	1.0k△	4.8			N-PE	Si	175J	TO39	KCØ
74	3N147		100n	20n		150n	1.7 Ø				850 §			P☑	Si	175J	TO76	
75	3N148		100n	20n		150n	1.7 Ø				850 §			P☑	Si	175J	TO76	
76	3N149		100n	20n		150n	1.3 Ø				400 §			P☑	Si	175J	TO72	DM
77	3N150		100n	20n		150n	1.3 Ø				400 §			P☑	Si	175J	TO72	DM
78	UPT410	10M§△	100nt		400nt	100nt	73 Ø§	5.0 Ø	2.5 Ø	10 △#	500m#	125p☑		N-PL	Si	200J	TO3	CØ
79	UPT410A	10M§△	100nt		400nt	100nt	38 Ø§	5.0 Ø	2.5 Ø	10 △#	500m#	125p☑		N-PL	Si	200J	TO66	CØ
80	UPT413	10M§△	100nt		300nt	100nt	55 Ø§	5.0 Ø	1.0 Ø	15 △#	1.0 #	125p☑		N-PL	Si	200J	TO3	CØ
81	UPT413A	10M§△	100nt		300nt	100nt	38 Ø§	5.0 Ø	1.0 Ø	15 △#	1.0 #	125p☑		N-PL	Si	200J	TO66	CØ
82	UPT423	10M§△	100nt		400nt	100nt	73 Ø§	5.0 Ø	2.5 Ø	10 △#	500m#	125p☑		N-PL	Si	200J	TO3	CØ
83	UPT423A	10M§△	100nt		400nt	100nt	38 Ø§	5.0 Ø	2.5 Ø	10 △#	500m#	125p☑		N-PL	Si	200J	TO66	CØ
84	2N864	16M§△	100n		100n	100n	150m	500mØ	5.0mØ	20 △	2.0	9.0p☑		P	Si	140S	TO18	A
85	2N5552-4	25.0M§	100nØ			700nØ	1.5	5.0 Ø	10 Ø	30	1.0	125p		N-PE	Si	200	T20	
86	XGSA3025	25M§△	100nØ		1.0u	350n	10 Ø$	5.0 Ø	3.0 Ø	10 #△	333m#	250p☑		NDPL	Si	175J	TO5	
87	XGSA3030	25M§△	100nØ		1.0u	350n	10 Ø$	5.0 Ø	3.0 Ø	10 #△	333m#	250p☑		NDPL	Si	175J	TO5	
88	XGSA3035	25M§△	100nØ		1.0u	350n	10 Ø$	5.0 Ø	3.0 Ø	10 #△	333m#	250p☑		NDPL	Si	175J	TO5	
89	XGSA5025	25M§△	100nØ		500n	250n	10 Ø$	5.0 Ø	5 0 Ø	10 #△	200m#	250p☑		NDPL	Si	175J	TO5	
90	XGSA5030	25M§△	100nØ		500n	250n	10 Ø$	5.0 Ø	5.0 Ø	10 #△	200m#	250p☑		NDPL	Si	175J	TO5	
91	XGSA5035	25M§△	100nØ		500n	250n	10 Ø$	5.0 Ø	5.0 Ø	10 #△	200m#	250p☑		NDPL	Si	175J	TO5	
92	XGSQ3025	25M§△	100nØ		1.0u	350n	15 Ø$	5.0 Ø	3 0 Ø	10 #△	266m#	250p☑		NDPL	Si	175J	TO66	CØ
93	XGSQ3030	25M§△	100nØ		1.0u	350n	15 Ø$	5.0 Ø	3.0 Ø	10 #△	266m#	250p☑		NDPL	Si	175J	TO66	CØ
94	XGSQ3035	25M§△	100nØ		1.0u	350n	15 Ø$	5.0 Ø	3.0 Ø	10 #△	266m#	250p☑		NDPL	Si	175J	TO66	CØ
95	XGSQ5025	25M§△	100nØ		500n	250n	15 Ø$	5.0 Ø	5.0 Ø	10 #△	160m#	250p☑		NDPL	Si	175J	TO66	CØ
96	XGSQ5030	25M§△	100nØ		500n	250n	15 Ø$	5.0 Ø	5.0 Ø	10 #△	160m#	250p☑		NDPL	Si	175J	TO66	CØ
97	XGSQ5035	25M§△	100nØ		500n	250n	15 Ø$	5 0 Ø	5 0 Ø	10 #△	160m#	250p☑		NDPL	Si	175J	TO66	CØ
98	XGSR3025	25M§△	100nØ		1 0u	350n	75 Ø$	5.0 Ø	3.0 Ø	10 #△	266m#	250p☑		NDPL	Si	175J	TO3	CØ
99	XGSR3030	25M§△	100nØ		1.0u	350n	75 Ø$	5 0 Ø	3.0 Ø	10 #△	266m#	250p☑		NDPL	Si	175J	TO3	CØ
100	XGSR3035	25M§△	100nØ		1 0u	350n	75 Ø$	5 0 Ø	3.0 Ø	10 #△	266m#	250p☑		NDPL	Si	175J	TO3	CØ
101	XGSR5025	25M§△	100nØ		500n	250n	75 Ø$	5.0 Ø	5.0 Ø	10 #△	160m#	250p☑		NDPL	Si	175J	TO3	CØ
102	XGSR5030	25M§△	100nØ		500n	250n	75 Ø$	5.0 Ø	5.0 Ø	10 #△	160m#	250p☑		NDPL	Si	175J	TO3	CØ
103	XGSR5035	25M§△	100nØ		500n	250n	75 Ø$	5.0 Ø	5.0 Ø	10 #△	160m#	250p☑		NDPL	Si	175J	TO3	CØ
104	2N2225	30.0M	100nØ		100n	100n	200m	.50 Ø	400m	60 †	1.2	14p		P-A	Ge	85C	TO5	
105	2N4877	30M§△	100n		1.5u	500n	10 Ø	2 0 Ø	1.0 Ø	30 △#				N	Si	200J	TO39	AØ
106	2N5336	30.0M§△	100n	100n	2.0u	200n	6 Ø	2.0 Ø	500mØ	20 †#				N	Si	200J	TO39	AØ
107	2N5337	30.0M§△	100n	100n	2.0u	200n	6 0 Ø	2.0 Ø	500mØ	40 †△#				N	Si	200J	TO39	AØ
108	2N5338	30 0M§△	100n	100n	2 0u	200n	6 Ø	2 0 Ø	500mØ	20 †#△				N	Si	200J	TO39	AØ
109	2N5339	30.0M§△	100n	100n	2.0u	200n	6 Ø	2.0 Ø	500mØ	40 †#△				N	Si	200J	TO39	AØ
110	2N5346	30.0M§△	100n	100n	2.0u	200n	60 Ø	2 0 Ø	5 Ø	20 △		250p☑		N	Si	200J	TO59	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	M A T	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	L E A C O D E
1	UPT123	50M§	100nt∅			250nt∅	1.6	5.0 ∅	2.0 ∅	15 #	1.0 #	50p☑		N-PL	Si	200J	TO66	C∅
2	UPT124	50M§	100nt∅			250nt∅	1.6	5.0 ∅	2.0 ∅	15 #	1.0 #	50p☑		N-PL	Si	200J	TO66	C∅
3	UPT125	50M§	100nt∅			250nt∅	1.6	5.0 ∅	2.0 ∅	15 #	1.0 #	50p☑		N-PL	Si	200J	TO66	C∅
4	2N3021	60.0M§△	100n∅		325n	75n	25 ∅	2.0 ∅	1.0m∅	20 △	.50			P	Si	175C	TO3	C∅
5	2N3022	60.0M§△	100n∅		325n	75n	25 ∅	2.0 ∅	1.0m∅	20 △	.50			P	Si	175C	TO3	C∅
6	2N3023	60.0M§△	100n∅		325n	75n	25 ∅	2.0 ∅	1.0m∅	20 △	.50			P	Si	175C	TO3	C∅
7	2N3024	60.0M§△	100n∅		325n	75n	25 ∅	2.0 ∅	1.0m∅	50 △	.33			P	Si	175C	TO3	C∅
8	2N3025	60.0M§△	100n∅		325n	75n	25 ∅	2.0 ∅	1.0m∅	50 △	.33			P	Si	175C	TO3	C∅
9	2N3026	60.0M§△	100n∅		325n	75n	25 ∅	2.0 ∅	1.0m∅	50 △	.33			P	Si	175C	TO3	C∅
10	2N3719	60.0M§△	100n∅			400n∅	6 ∅	1.5 ∅	1 ∅	25 #△				P	Si	200J	TO5	A∅
11	2N3720	60.0M§△	100n∅			400n∅	6 ∅	1.5 ∅	1 ∅	25 #△				P	Si	200J	TO5	A∅
12	TIP501	60M§△	100n∅			400n∅	6.0 ∅	1.5 ∅	500m∅	20 △#		120p☑		N	Si	200J	TO39	A∅
13	TIP502	60M§△	100n∅			400n∅	6.0 ∅	1.5 ∅	500m∅	20 △#		120p☑		N	Si	200J	TO39	A∅
14▼	JAN2N702	70M§△	100n∅			100n∅	600m∅	5.0 ∅	10m∅	60 ☑#	40 #	6.0p☑		N-DPL	Si	200S	TO18	A∅
15▼	JAN2N703	70M§△	100n∅			100n∅	600m∅	5.0 ∅	10m∅	100 ☑#	40 #	6.0p☑		N-DPL	Si	200S	TO18	A∅
16	2N3340	70.0M§△	100n∅				400m	1.0 ∅	.01m∅	40 △	20k	6.0p☑		N	Si	175A	TO46	A∅
17	2N4354	100M§△	100n∅		400n∅		800m∅	10 ∅	10m∅	50 #△	1.0	30p$		P	Si	125J	R124b	A
18	2N4355	100M§△	100n∅		400n∅		800m∅	10 ∅	10m∅	100 #△	1.0	30p$		P	Si	125J	R124b	A
19	2N4356	100M§△	100n∅		400n∅		800m∅	10 ∅	10m∅	50 #△	1.0	30p$		P	Si	125J	R124b	A
20#	A5T4026	100M§△	100n∅		350n	50n	625m	10 ∅	100m∅	40 △	1.0	20p$☑		P	Si	150S	R203	A
21#	A5T4027	100M§△	100n∅		350n	50n	625m	10 ∅	100m∅	40 △	1.0	20p$☑		P	Si	150S	R203	A
22	A8T4026	100M§△	100n∅		350n	50n	625m	10 ∅	100m∅	40 △	1.0	20p$☑		P	Si	150S	TO92	A
23	A8T4027	100M§△	100n∅		350n	50n	625m	10 ∅	100m∅	40 △	1.0	20p$☑		P	Si	150S	TO92	A
24#	BCW65EA	100M§△	100n∅			400n∅	350m	10 ∅	100m∅	250 ☑	1.4	12p☑		N-PE	Si	150J	X156	
25#	BCW65EB	100M§△	100n∅			400n∅	350m	1.0 ∅	100m∅	400 ☑	1.4	12p☑		N-PE	Si	150J	X156	
26#	BCW65EC	100M§△	100n∅			400n∅	350m	1.0 ∅	100m∅	630 ☑	1.4	12p☑		N-PE	Si	150J	X156	
27#	BCW66EF	100M§△	100n∅			400n∅	350m	1.0 ∅	100m∅	250 ☑	1.4	12p☑		N-PE	Si	150J	X156	
28#	BCW66EG	100M§△	100n∅			400n∅	350m	1.0 ∅	100m∅	400 ☑	1.4	12p☑		N-PE	Si	150J	X156	
29#	BCW66EH	100M§△	100n∅			400n∅	350m	1.0 ∅	100m∅	630 ☑	1.4	12p☑		N-PE	Si	150J	X156	
30#	BCW67DA	100M§△	100n∅			400n∅	350m	1.0 ∅	100m∅	250 ☑	1.4	18p☑		P-PE	Si	150J	X156	
31#	BCW67DB	100M§△	100n∅			400n∅	350m	1.0 ∅	100m∅	400 ☑	1.4	18p☑		P-PE	Si	150J	X156	
32#	BCW67DC	100M§△	100n∅			400n∅	350m	1.0 ∅	100m∅	630 ☑	1.4	18p☑		P-PE	Si	150J	X156	
33#	BCW68DF	100M§△	100n∅			400n∅	350m	1.0 ∅	100m∅	250 ☑	1.4	18p☑		P-PE	Si	150J	X156	
34#	BCW68DG	100M§△	100n∅			400n∅	350m	1.0 ∅	100m∅	400 ☑	1.4	18p☑		P-PE	Si	150J	X156	
35#	BCW68DH	100M§△	100n∅			400n∅	350m	1.0 ∅	100m∅	630 ☑	1.4	18p☑		P-PE	Si	150J	X156	
36#	BCW73-16	100M§△	100n∅			400n∅	1.5 ∅*	1.0 ∅	100m∅	250 ☑	3.0	8.0p$		N-PE	Si	200J	TO18	A∅
37#	BCW73-25	100M§△	100n∅			400n∅	1.5 ∅*	1.0 ∅	100m∅	400 ☑	3.0	8.0p$		N-PE	Si	200J	TO18	A∅
38#	BCW73-40	100M§△	100n∅			400n∅	1.5 ∅*	1.0 ∅	100m∅	630 ☑	3.0	8.0p$		N-PE	Si	200J	TO18	A∅
39#	BCW74-16	100M§△	100n∅			400n∅	1.5 ∅*	1.0 ∅	100m∅	250 ☑	3.0	8.0p$		N-PE	Si	200J	TO18	A∅
40#	BCW74-25	100M§△	100n∅			400n∅	1.5 ∅*	1.0 ∅	100m∅	400 ☑	3.0	8.0p$		N-PE	Si	200J	TO18	A∅
41#	BCW74-40	100M§△	100n∅			400n∅	1.5 ∅*	1.0 ∅	100m∅	630 ☑	3.0	8.0p$		N-PE	Si	200J	TO18	A∅
42#	BCW75-10	100M§△	100n∅			400n∅	450m	2.0 ∅	500m∅	35 ☑	1.4m			P-PE	Si	200J	TO18	A
43#	BCW75-16	100M§△	100n∅			400n∅	450m	2.0 ∅	500m∅	35 ☑	1.4m			P-PE	Si	200J	TO18	A
44#	BCW75-25	100M§△	100n∅			400n∅	450m	2.0 ∅	500m∅	35 ☑	1.4m			P-PE	Si	200J	TO18	A
45#	BCW76-10	100M§△	100n∅			400n∅	450m	2.0 ∅	500m∅	35 ☑	1.4m			P-PE	Si	200J	TO18	A
46#	BCW76-16	100M§△	100n∅			400n∅	450m	2.0 ∅	500m∅	35 ☑	1.4m			P-PE	Si	200J	TO18	A
47#	BCW76-25	100M§△	100n∅			400n∅	450m	2.0 ∅	500m∅	35 ☑	1.4m			P-PE	Si	200J	TO18	A
48#	BCW77-16	100M§△	100n∅			400n∅	4.5 ∅*	1.0 ∅	100m∅	250 ☑	3.0	8.0p$		N-PE	Si	200J	TO39	A∅
49#	BCW77-25	100M§△	100n∅			400n∅	4.5 ∅*	1.0 ∅	100m∅	400 ☑	3.0	8.0p$		N-PE	Si	200J	TO39	A∅
50#	BCW77-40	100M§△	100n∅			400n∅	4.5 ∅*	1.0 ∅	100m∅	630 ☑	3.0	8.0p$		N-PE	Si	200J	TO39	A∅
51#	BCW78-16	100M§△	100n∅			400n∅	4.5 ∅*	1.0 ∅	100m∅	250 ☑	3.0	8.0p$		N-PE	Si	200J	TO39	A∅
52#	BCW78-25	100M§△	100n∅			400n∅	4.5 ∅*	1.0 ∅	100m∅	400 ☑	3.0	8.0p$		N-PE	Si	200J	TO39	A∅
53#	BCW78-40	100M§△	100n∅			400n∅	4.5 ∅*	1.0 ∅	100m∅	630 ☑	3.0	8.0p$		N-PE	Si	200J	TO39	A∅
54#	BCW79-10	100M§△	100n∅			400n∅	870m	2.0 ∅	500m∅	35 ☑	1.4m			P-PE	Si	200J	TO39	A
55#	BCW79-16	100M§△	100n∅			400n∅	870m	2.0 ∅	500m∅	35 ☑	1.4m			P-PE	Si	200J	TO39	A
56#	BCW79-25	100M§△	100n∅			400n∅	870m	2.0 ∅	500m∅	35 ☑	1.4m			P-PE	Si	200J	TO39	A
57#	BCW80-10	100M§△	100n∅			400n∅	870m	2.0 ∅	500m∅	35 ☑	1.4m			P-PE	Si	200J	TO39	A
58#	BCW80-16	100M§△	100n∅			400n∅	870m	2.0 ∅	500m∅	35 ☑	1.4m			P-PE	Si	200J	TO39	A
59#	BCW80-25	100M§△	100n∅			400n∅	870m	2.0 ∅	500m∅	35 ☑	1.4m			P-PE	Si	200J	TO39	A
60#	BCX73-16	100M§△	100n∅			400n∅	625m	1.0 ∅	100m∅	250 ☑		8.0p$		N-PL†	Si	150J	R204c	A
61#	BCX73-25	100M§△	100n∅			400n∅	625m	1.0 ∅	100m∅	400 ☑		8.0p$		N-PL†	Si	150J	R204c	A
62#	BCX73-40	100M§△	100n∅			400n∅	625m	1.0 ∅	100m∅	630 ☑		8.0p$		N-PL†	Si	150J	R204c	A
63#	BCX74-16	100M§△	100n∅			400n∅	625m	1.0 ∅	100m∅	250 ☑		8.0p$		N-PL†	Si	150J	R204c	A
64#	BCX74-25	100M§△	100n∅			400n∅	625m	1.0 ∅	100m∅	400 ☑		8.0p$		N-PL†	Si	150J	R204c	A
65#	BCX74-40	100M§△	100n∅			400n∅	625m	1.0 ∅	100m∅	630 ☑		8.0p$		N-PL†	Si	150J	R204c	A
66#	BCX75-16	100M§△	100n∅			400n∅	625m	1.0 ∅	100m∅	250 ☑	2.5	12p$		P-PE†	Si	150J	R204c	A
67#	BCX75-25	100M§△	100n∅			400n∅	625m	1.0 ∅	100m∅	400 ☑	2.5	12p$		P-PE†	Si	150J	R204c	A
68#	BCX75-40	100M§△	100n∅			400n∅	625m	1.0 ∅	100m∅	630 ☑	2.5	12p$		P-PE†	Si	150J	R204c	A
69#	BCX76-25	100M§△	100n∅			400n∅	625m	1.0 ∅	100m∅	400 ☑	2.5	12p$		P-PE†	Si	150J	R204c	A
70#	BCX76-40	100M§△	100n∅			400n∅	625m	1.0 ∅	100m∅	630 ☑	2.5	12p$		P-PE†	Si	150J	R204c	A
71#	BFX38	100M§△	100n∅		350n	50n	4.0m∅	5.0 ∅	100m∅	30 △#		20p☑		N-DPE	Si	200J	TO5	
72	BFX38☑	100M§△	100n∅		350n	50n	4.0 ∅	5.0 ∅	100u∅	60 △	1.0 #	20p☑		PAN	Si	200J	TO39	A
73#	BFX39	100M§△	100n∅		350n	50n	4.0m∅	5.0 ∅	100m∅	15 △#		20p☑		N-DPE	Si	200J	TO5	
74	BFX39☑	100M§△	100n∅		350n	50n	4.0 ∅	5.0 ∅	100u∅	30 △	1.0 #	20p☑		PAN	Si	200J	TO39	A
75#	BFX40	100M§△	100n∅		350n	50n	4.0m∅	5.0 ∅	1.0 ∅	25 △#		20p☑		N-DPE	Si	200J	TO5	
76	BFX40☑	100M§△	100n∅		350n	50n	4.0 ∅	5.0 ∅	100u∅	60 △	1.0 #	20p☑		PAN	Si	200J	TO39	A
77#	BFX41	100M§△	100n∅		350n	50n	4.0m∅	5.0 ∅	1.0 ∅	10 △#		20p☑		N-DPE	Si	200J	TO5	
78	BFX41☑	100M§△	100n∅		350n	50n	4.0 ∅	5.0 ∅	100u∅	30 △	1.0 #	20p☑		PAN	Si	200J	TO39	A
79▼	MPS5142	100M§△	100n∅			200n∅	625m	1.0 ∅	50m∅	30 △#	10 #	10p$☑		P	Si	150S	TO92	A
80▼	MPS5143	100M§△	100n∅			200n∅	625m	1.0 ∅	50m∅	30 △#	10 #	10p$☑		P	Si	150S	TO92	A
81#	NKT603F	140M	100n		230n	35n	80m	6.0 ∅	1.0m∅	40 △	35	3.5p☑		P	Ge	75J	TO7	H
82	2N711	150M§△	100n∅		200n	150n	150m	500m∅	10m∅	250 ☑	50	7.5p☑		P	Ge	100J	TO18	A∅
83	2N711A	150M§△	100n∅		150n	150n	150m	500m∅	10m∅	25 △	11	6.0p☑		P	Ge	100S	TO18	A∅
84	2N711B	150M§△	100n∅		140n	110n	150m	500m∅	10m∅	150 ☑	25	6.0p☑		P	Ge	100S	TO18	A∅
85	2N2479	150M§△	100n		130n	55n	600m	1.5m∅	150m∅	120 ☑		14p		N-PE	Si	175A	TO5	A∅
86	2N2718	150M§△	100n∅		250n∅		240m	.27 ∅	170m∅	25 △		10p☑		P	Ge	100S	TO5	
87#	2SA709	150M§△	100n∅†		200nt	270n∅†	300m	1.0 ∅	100m∅	80	6.0	10p☑		PE†	Si	150J	R221	F
88♦#	2SA883	150M§△	100n∅†		200nt	270n∅†	300m	1.0 ∅	100m∅	80	6.0	10p☑		PE	Si	150J	R182b	B
89#	2SA956H3	150M§△	100n∅†		200nt	270n∅†	150m	1.0 ∅	10m∅	130 ☑*	30	10p☑		PE†	Si	125J	X156b	A
90#	2SA956H4	150M§△	100n∅†		200nt	270n∅†	150m	1.0 ∅	10m∅	170 ☑*	30	10p☑		PE†	Si	125J	X156b	A
91#	2SA956H5	150M§△	100n∅†		200nt	270n∅†	150m	1.0 ∅	10m∅	240 ☑*	30	10p☑		PE†	Si	125J	X156b	A
92#	2SA956H6	150M§△	100n∅†		200nt	270n∅†	150m	1.0 ∅	10m∅	320 ☑*	30	10p☑		PE†	Si	125J	X156b	A
93#	A5T4028	150M§△	100n∅		350n	50n	625m	10 ∅	100m∅	100 △	1.0	20p$☑		P	Si	150S	R203	A
94#	A5T4029	150M§△	100n∅		350n	50n	625m	10 ∅	100m∅	100 △	1.0	20p$☑		P	Si	150S	R203	A
95	A8T4028	150M§△	100n∅		350n	50n	625m	10 ∅	100m∅	100 △	1.0	20p$☑		P	Si	150S	TO92	A
96	A8T4029	150M§△	100n∅		350n	50n	625m	10 ∅	100m∅	100 △	1.0	20p$☑		P	Si	150S	TO92	A
97#	2SC802	180M§	100n		1.0u	80n	1.0 ∅	4.0 ∅	150m∅	30		5.0p		N	Si	175J	TO5	
98#	2SC479H	200M§△	100n∅			80n∅	650m	1.0 ∅	100m∅	130 ☑		20p☑		N-PE	Si	175J	TO5	A
99	2N1340	250M*	100n	15n	150n	100n	800m	10 ∅	50m	5.0 #△	14	4.0p		N-ME	Si	175J	TO5	A∅
100#	2SA552	250M§	100n∅		270n	300n∅	750m	10 ∅	10m∅	40 #△	16	7.0p☑		P-PE	Si	175J	TO39	A∅
101	2N970	300M§△	100n∅			275n∅	150m	.70 ∅	.25m∅	20 △	25	8.0p☑		P	Ge	100J	TO18	A∅
102	2N971	300M§△	100n∅			275n∅	150m	.70 ∅	.25m∅	20 △	25	8.0p☑		P	Ge	100J	TO18	A∅
103	2N4026	400M§☑	100n∅		350n	50n	2.0 ∅	5.0 ∅	500m∅	25 #△	1.0	20p$☑		P	Si	200J	TO18	A∅
104	2N4027	400M§☑	100n∅		350n	50n	2.0 ∅	5.0 ∅	500m∅	25 #△	1.0	20p$☑		P	Si	200J	TO18	A∅
105	2N4030	400M§☑	100n∅		350n	50n	4.0 ∅	5.0 ∅	500m∅	25 #△	1.0	20p$☑		P	Si	200J	TO5	A∅
106	2N4031	400M§☑	100n∅		350n	50n	4.0 ∅	5.0 ∅	500m∅	25 #△	1.0	20p$☑		P	Si	200J	TO5	A∅
107#	2SC752G	400M§	100n∅		30n	70n	200m	1.0 ∅	10m∅	240 *☑	12	6.0p☑		N-PE	Si	125J	R67a	B
108#	2SC595	450M§	100n∅			100n∅	300m	1.0 ∅	10m∅	60 †		4.0p		N-PE	Si	150J	TO18	
109	2N4028	500M§☑	100n∅		350n	50n	2.0 ∅	5.0 ∅	500m∅	70 #△	1.0	20p$☑		P	Si	200J	TO18	A∅
110	2N4029	500M§☑	100n∅		350n	50n	2.0 ∅	5.0 ∅	500m∅	70 #△	1.0	20p$☑		P	Si	200J	TO18	A∅

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	M A T	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	L E A D C O D E
1	TIP56A		130nt	40nt	1.5ut	200nt	50 Ø$	2.0 Ø	5.0 Ø	6.0 Δ#	250m#			N	Si	150J	B3	BØ
2	TIP57A		130nt	40nt	1.5ut	200nt	50 Ø$	2 0 Ø	5.0 Ø	6.0 Δ#	250m#			N	Si	150J	B3	BØ
3	TIP58A		130nt	40nt	1.5ut	200nt	50 Ø$	2 0 Ø	5.0 Ø	6.0 Δ#	250m#			N	Si	150J	B3	BØ
4	TIP558		130nt	40nt	1.5ut	200nt	100 Ø$	2.0 Ø	5.0 Ø	6 0 Δ#	250m#			N	Si	200J	TO3	CØ
5	TIP559		130nt	40nt	1.5ut	200nt	100 Ø$	2.0 Ø	5 0 Ø	6 0 Δ#	250m#			N	Si	200J	TO3	CØ
6	TIP560		130nt	40nt	1.5ut	200nt	100 Ø$	2.0 Ø	5.0 Ø	6.0 Δ#	250m#			N	Si	200J	TO3	CØ
7	TIP561		130nt	40nt	1.5ut	200nt	100 Ø$	2.0 Ø	5.0 Ø	6.0 Δ#	250m#			N	Si	200J	TO3	CØ
8#	SFT227	7.50M§	130nØ			130nØ	150m	500mØ	10mØ	35 Δ	15			P-A	Ge	85J	TO5	A
9#	2SC510	20M§Δ	130nØ		3.0u	200n	8.0 Ø	2 0 Ø	200mØ	150 ☑	3.0	40p☑		N-DPL	Si	175J	TO39	AØ
10#	2SC512	20M§Δ	130nØ		3.0u	200n	8.0 Ø	2.0 Ø	200mØ	150 ☑	3.0	40p☑		N-DPL	Si	175J	TO39	AØ
11#	2SC512O	20M§Δ	130nØ		3.0u	200n	8 0 Ø	2.0 Ø	200mØ	150 ☑	3 0	40p☑		N-DPL	Si	175J	TO39	AØ
12#	2SC512R	20M§Δ	130nØ		3.0u	200n	8 0 Ø	2.0 Ø	200mØ	90 ☑	3.0	40p☑		N-DPL	Si	175J	TO39	AØ
13#	2SC522	20M§Δ	130nØ		3.0u	200n	10 Ø	2.0 Ø	200mØ	150 ☑	3.0	25p		N-DPL	Si	175J	F17	AØ
14#	2SC524	20M§Δ	130nØ		3.0u	200n	10 Ø	2 0 Ø	200mØ	150 ☑	3 0	25p		N-DPL	Si	175J	F17	AØ
15	2N1508	50M§Δ	130nØ			320nØ	5 0 Ø	3 6 Ø	600mØ	20 #Δ		50p☑		N	Si	175J	TO39	AØ
16	2N1509	50M§Δ	130nØ			320nØ	5.0 Ø	3.6 Ø	600mØ	20 #Δ		50p☑		N	Si	175J	TO39	AØ
17	2N1679	50M§Δ	130nØ			320nØ	5 0 Ø	3.6 Ø	600mØ	40 #Δ		50p☑		N	Si	175J	TO39	AØ
18	2N1680	50M§Δ	130nØ			320nØ	5.0 Ø	3.6 Ø	600mØ	40 #Δ		50p☑		N	Si	175J	TO39	AØ
19	UPT211	70M§	130ntØ			300ntØ	4.0 Ø$	5.0 Ø	5.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO5	A
20	UPT212	70M§	130ntØ			300ntØ	4 0 Ø$	5 0 Ø	5.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO5	A
21	UPT213	70M§	130ntØ			300ntØ	4.0 Ø$	5.0 Ø	5.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO5	A
22	UPT214	70M§	130ntØ			300ntØ	4 0 Ø$	5.0 Ø	5.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO5	A
23	UPT215	70M§	130ntØ			300ntØ	4.0 Ø$	5.0 Ø	5.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO5	A
24	UPT221	70M§	130ntØ			300ntØ	1.6	5.0 Ø	5 0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO66	CØ
25	UPT222	70M§	130ntØ			300ntØ	1.6	5.0 Ø	5.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO66	CØ
26	UPT223	70M§	130ntØ			300ntØ	1.6	5.0 Ø	5 0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO66	CØ
27	UPT224	70M§	130ntØ			300ntØ	1.6	5.0 Ø	5.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO66	CØ
28	UPT225	70M§	130ntØ			300ntØ	1.6	5.0 Ø	5 0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO66	CØ
29♦#	2SA779K	110M§	130ntØ		450nØ	550ntØ	1.2	2.0 Ø	500mØ	60 Δ*	500m			P	Si	150J	B11	D
30♦#	2SA778AK	50M§	135ntØ		1.0u	1.7utØ	200m	3.0 Ø	15mØ	30 Δ	67	10p☑		P	Si	125J	S8	B
31▼#	2SA778K	50M§	135ntØ		1.0u	1.7utØ	200m	3.0 Ø	15mØ	40 Δ	67	10p		P	Si	125J	S8	B
32#	BCY92	15.0M§	140nt	40nt	200nt	140nt	350m	6.0 Ø	1.0mØ	60	10	4 0p$		P-PE☑	Si	150J	TO18	AØ
33#	BCY92B	15.0M§	140nt	40nt	200nt	140nt	400m	6.0 Ø	1 0mØ	60	10	4.0p$		P-PE☑	Si	150J	TO5	AØ
34#	BCY95	15.0M§	140nt	40nt	200nt	140nt	350m	6.0 Ø	1 0mØ	60	10	4.0p$		P-PE☑	Si	150J	TO18	AØ
35#	BCY95B	15.0M§	140nt	40nt	200nt	140nt	400m	6.0 Ø	1.0mØ	60	10	4.0p$		P-PE☑	Si	150J	TO5	AØ
36#	TCH98	15.0M§	140nt	40nt	200nt	140nt	350m	6.0 Ø	1.0mØ	115	10	4.0p$		P-PE☑	Si	150J	TO18	AØ
37#	TCH98B	15.0M§	140nt	40nt	200nt	140nt	400m	6.0 Ø	1.0mØ	115	10	4.0p$		P-PE☑	Si	150J	TO5	AØ
38#	TCH99	15 0M§	140nt	40nt	200nt	140nt	350m	6.0 Ø	1.0mØ	115	10	4.0p$		P-PE☑	Si	150J	TO18	AØ
39#	TCH99B	15 0M§	140nt	40nt	200nt	140nt	400m	6.0 Ø	1 0mØ	115	10	4.0p$		PPE☑ S		150J	TO5	AØ
40	TI486	50M§	140nØt			2.6uØt	1 0	5.0 Ø	200mØ	20 Δ#		30p		N-DPL	Si	200C	TO5	AØ
41	TI487	50M§	140nØt			2.6uØt	2.0	5.0 Ø	200mØ	20 Δ#		30p		N-DPL	Si	200C	T13	AØ
42#	2SC1516K	110M§	140ntØ		600nt	650ntØ	10 Ø	2.0 Ø	1.5 Ø	35 Δ				N-PE	Si	150J	B11	D
43	2N3342		150nØ		80n	200n	250m	1 0 Ø	5 0mØ	30 Δ	20	10p☑		P	Si	175S	TO5	A
44	2N4065		150n	100n		400nØ	1.0 Ø	15	0.0	400u§Δ	1.5k§	4 5p☑§		P☑	Si	175J	TO72	DM
45	2N4120		150n	100n		400nØ	1.0 Ø	15		700u§Δ	1.0k§	4 5p§☑		P☑	Si	175J	TO72	DM
46	2N1012	3.0MΔ	150nØ			200nØ	150m	250mØ	100mØ	40 Δ	2.0	20p☑		N	Ge	100S	TO5	A§
47	2N861	7.5M§Δ	150n		100n	150n	150m	500mØ	5.0mØ	25 Δ	3.0	9 0p☑		P	Si	140S	TO18	A
48♦#	2SA671K	8.0M§	150nØt		950nt	850ntØ	25 Ø	4.0 Ø	1.0 Ø	35 Δ*	600m			P-D	Si	150J	Y220b	D
49	2N864A	16.0M§Δ	150n		150n	150n	300m	6.0 Ø	1 0m	350 †☑	20	9.0p☑		P	Si	200S	TO18	
50	2N3850	20M§Δ	150n	50n	700n	200n	30 $	2.0 Ø	2 0 Ø	30 #		125p☑		N	Si	200C	TO59	AØ
51	2N3851	20M§Δ	150n	50n	700n	200n	30 $	2.0 Ø	2.0 Ø	20 #		125p☑		N	Si	200C	TO59	AØ
52	2N3852	20M§Δ	150n	50n	700n	200n	30 $	2 0 Ø	2.0 Ø	30 #		125p☑		N	Si	200C	TO59	AØ
53	2N3853	20M§Δ	150n	50n	700n	200n	30 $	2.0 Ø	2.0 Ø	20 #		125p☑		N	Si	200C	TO59	AØ
54	SSP3850	20M§Δ	150n	50n	700n	200n	30 Ø$	2.0 Ø	2.0 Ø	30 Δ#		75p☑		N-PL	Si	200J	TO111	G
55	SSP3851	20M§Δ	150n	50n	700n	200n	30 Ø$	2.0 Ø	2.0 Ø	20 Δ#		75p☑		N-PL	Si	200J	TO111	G
56	SSP3852	20M§Δ	150n	50n	700n	200n	30 Ø$	2.0 Ø	2.0 Ø	30 Δ#		75p☑		N-PL	Si	200J	TO111	G
57	SSP3853	20M§Δ	150n	50n	700n	200n	30 Ø$	2.0 Ø	2.0 Ø	20 Δ#		75p☑		N-PL	Si	200J	TO111	G
58	2N5658	30.0M§Δ	150nØ			800nØ	30	2 0 Ø	500mØ	40 Δ#		150p☑		N	Si	200J	TO59	AØ
59	2N5659	30.0M§Δ	150nØ			800nØ	30	2 0 Ø	500mØ	40 Δ#		150p☑		N	Si	200J	TO111	G
60	SSP3200	30M§Δ	150nØ			800nØ	50 Ø$	5.0 Ø	10 Ø	25 Δ	100m	150p☑		N-PL	Si	200J	TO61	Ø
61	SSP3201	30M§Δ	150nØ			800nØ	50 Ø$	5.0 Ø	10 Ø	100m	100m	150p☑		N-PL	Si	200J	TO61	
62#	2SC1062	35M§	150ntØ		5.4ut	6 4utØ	700m	2.0 Ø	50mØ	60 †#		5 0p		N-D	Si	175J	TO39	AØ
63	SSP3050	40M§Δ	150nØ		1.0u		20 Ø$	5.0 Ø	5.0 Ø	20 Δ	300m	175p☑		N-PL	Si	200J	TO66	CØ
64	2N3036	50.0M§Δ	150n	30n	1.0u	200n	5.0 Ø	10 Ø	10mØ	40 Δ		15p☑		N	Si	200S	TO5	AØ
65	2N3037	50.0M§Δ	150n	30n	1.0u	200n	1.0 Ø	10 Ø	100uØ	15 Δ	20	15p☑		N	Si	200S	TO50	A
66	2N3038	50.0M§Δ	150n	30n	1.0u	200n	1 0 Ø	10 Ø	100uØ	30 Δ	30	15p☑		N	Si	200S	TO50	A
67#	2SC1706H	60M§	150nØt		2.0ut	1.5uØt	200mØ	6 0 Ø	10mØ	30 †Δ	100	10p☑		N-D	Si	175J	TO18	A
68	PT6940	75MØ	150nØt			400nØt	30 Ø	3.0 Ø	3.0 Ø	30 Δ	240m			N-PL	Si	200A	TO5	
69	PT6941	75MØ	150nØt			400nØt	35 Ø	5.0 Ø	1.0 Ø	40 Δ	400m			N-PL	Si	200A	TO3	
70	PT6942	75MØ	150nØt			400nØt	35 Ø	5 0 Ø	1.0 Ø	40 Δ	500m			N-PL	Si	200A	TO3	CØ
71	PT6943	75MØ	150nØt			400nØt	35 Ø	5.0 Ø	1 0 Ø	30 Δ	600m			N-PL	Si	200A	TO3	CØ
72	PT7903	75MØ	150nØt			400nØt	35 Ø	5.0 Ø	1 0 Ø	30 Δ	500m			N-PL	Si	200A	TO3	CØ
73	PT7904	75MØ	150nØt			400nØt	35 Ø	5 0 Ø	1 0 Ø	40 Δ	400m			N-PL	Si	200A	TO3	CØ
74	PT7905	75MØ	150nØt			400nØt	35 Ø	5.0 Ø	1.0 Ø	30 Δ	500m			N-PL	Si	200A	TO3	CØ
75	PT7906	75MØ	150nØt			400nØt	35 Ø	5.0 Ø	1.0 Ø	30 Δ	600m			N-PL	Si	200A	TO3	CØ
76	PT7907	75MØ	150nØt			400nØt	35 Ø	5.0 Ø	1.0 Ø	40 Δ	500m			N-PL	Si	200A	TO3	CØ
77	PT7908	75MØ	150nØt			400nØt	35 Ø	5.0 Ø	1 0 Ø	30 Δ	600m			N-PL	Si	200A	TO3	CØ
78	PT7909	75MØ	150nØt			400nØt	35 Ø	5.0 Ø	1 0 Ø	15 Δ	700m			N-PL	Si	200A	TO3	CØ
79	PT7910	75MØ	150nØt			400nØt	35 Ø	5.0 Ø	1 0 Ø	30 Δ	600m			N-PL	Si	200A	TO3	CØ
80	PT7911	75MØ	150nØt			400nØt	35 Ø	5.0 Ø	1.0 Ø	15 Δ	700m			N-PL	Si	200A	TO3	CØ
81	PT7956	75MØ	150nØt			400nØt	35 Ø	5.0 Ø	1.0 Ø	10 Δ	1.0			N-PL	Si	200A	TO3	CØ
82	PT7957	75MØ	150nØt			400nØt	35 Ø	5.0 Ø	1.0 Ø	10 Δ	1.0			N-PL	Si	200A	TO3	CØ
83	2N5326	80.0M§Δ	150nØ			400nØ	20 $	1.0 Ø	1 Ø	50 #Δ				N	Si	200J	TO59	A
84	BDY60	100M§	150nt	10nt	200nt	80nt	15 Ø$	10 Ø	500mØ	45 Δ	140m	35p$		N-PE	Si	175J	TO3	CØ
85	BDY61	100M§	150nt	10nt	200nt	80nt	15 Ø$	10 Ø	500mØ	45 Δ	180m	35p$		N-PE	Si	175J	TO3	CØ
86	BDY62	100M§	150nt	10nt	200nt	80nt	15 Ø$	10 Ø	500mØ	45 Δ	180m	35p$		N-PE	Si	175J	TO3	CØ
87#	BCY58A	125M§Δ	150nØ			800nØ	1 0 Ø*	5.0 Ø	10uØ	78	35	6.0p$☑		N-PDØ	Si	200J	TO18	AØ
88#	BCY58B	125M§Δ	150nØ			800nØ	1.0 Ø*	5.0 Ø	10uØ	145	35	6.0p$☑		N-PDØ	Si	200J	TO18	AØ
89#	BCY58C	125M§Δ	150nØ			800nØ	1.0 Ø*	5.0 Ø	10uØ	220	35	6 0p$☑		N-PDØ	Si	200J	TO18	AØ
90#	BCY58D	125M§Δ	150nØ			800nØ	1.0 Ø*	5.0 Ø	10uØ	300	35	6.0p$☑		N-PDØ	Si	200J	TO18	AØ
91#	2SA718	150M§Δ	150nØt		240nt	300ntØ	300m	1.0 Ø	100mØ	70	7.0	10p☑		P-E	Si	150S	TO18	AØ
92#	2SC306	150M§	150n		300n	150n	800m	10 Ø	150mØ	85 #	4.7	10p		N-PL	Si	200J	TO5	AØ
93#	BSW19A	150M§Δ	150nØ			800nØ	300m	1.0 Ø	50mØ	50 Δ	18	7.0p☑		P-PE	Si	175J	TO18	AØ
94#	BSW19VI	150M§Δ	150nØ			800nØ	300m	1.0 Ø	50mØ	50 Δ	18	7.0p☑		P-PE	Si	175J	TO18	AØ
95#	BSW20A	150M§Δ	150nØ			800nØ	280m	1.0 Ø	50mØ	50 Δ	18	7.0p☑		P-PE†	Si	150J	R185	A
96#	BSW20VI	150M§Δ	150nØ			800nØ	280m	1.0 Ø	50mØ	50 Δ	18	7.0p☑		P-PE†	Si	150J	R185	A
97#	2SC307	200M§	150n		300n	150n	800m	10 Ø	150mØ	85 #	4.7	10p		N-PL	Si	200J	TO5	AØ
98#	BSW89A	200M§Δ	150nØ			800nØ	300m	1.0 Ø	50 Ø	75 Δ	20	5.0p☑		N-PE†		150J	R185	A
99#	BSW89B	200M§Δ	150nØ			800nØ	300m	1.0 Ø	50 Ø	75 Δ	20	5.0p☑		N-PE†		150J	R185	A
100#	BSX38A	200M§Δ	150nØ			800nØ	300m	1.0 Ø	50 Ø	75 Δ	20	5.0p☑		N-PE		200J	TO18	AØ
101#	BSX38B	200M§Δ	150nØ			800nØ	300m	1.0 Ø	50 Ø	75 Δ	20	5.0p☑		N-PE		200J	TO18	AØ
102#	BSX79A	200M§Δ	150nØ			800nØ	300m	1.0 Ø	50 Ø	75 Δ	20	5.0p☑		N-PE		200J	TO18	AØ
103#	BSX79B	200M§Δ	150nØ			800nØ	300m	1.0 Ø	50 Ø	75 Δ	20	5.0p☑		N-PE		200J	TO18	AØ
104#	2SA873	220M§	150nØt		270nt	320nØt	300m	1.0 Ø	10mØ	140	7.0	7.0p		P-PE	Si	150J	R212	A
105#	BSW19	300M§Δ	150nØ			800nØ	215m*	1.0 Ø	10mØ	120 ☑	30	6.0p☑		N-PE	Si	175J	TO18	AØ
106#	2SC772	350M§	150n		60n	150n	120m	6.0 Ø	1.0mØ	45		1.5p		N-PE	Si	125J	R145	D
107	SE6020	600M§☑	150nØ			1.0uØ	800mØ	10 Ø	100uØ	60		15p$☑		N-DPE	Si	125J	TO105	A
108	SE6021	600M§☑	150nØ			1.0uØ	800mØ	10 Ø	100uØ	70		15p$☑		N-DPE	Si	125J	TO105	A
109▼#	2SC2070		160nØ		130n	172nØ	300m	1.0 Ø	30mØ	70	68m			N-PE	Si	175J	TO18	AØ
110#	BCW85	200M§Δ	170nt	110nt	70nt	40nt	300m	5.0 Ø	10uØ	80 Δ		5.0p		P-PE†	Si	150S	R203c	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	M A T	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N6520	40M§△	200nØ			3.5uØ	625m	10 Ø	10mØ	30 †△	30	6.0p$☑		P	Si	150S	TO92	A
2	UPT311	40M§	200n†Ø			800n†Ø	1.0	5.0 Ø	3.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO5	A
3	UPT312	40M§	200n†Ø			800n†Ø	1.0	5.0 Ø	3.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO5	A
4	UPT313	40M§	200n†Ø			800n†Ø	1.0	5.0 Ø	3.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO5	A
5	UPT314	40M§	200n†Ø			800n†Ø	1.0	5.0 Ø	3.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO5	A
6	UPT315	40M§	200n†Ø			800n†Ø	1.0	5.0 Ø	3.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO5	A
7	UPT321	40M§	200n†Ø			800n†Ø	2.0	5.0 Ø	3.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO66	CØ
8	UPT322	40M§	200n†Ø			800n†Ø	2.0	5.0 Ø	3.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO66	CØ
9	UPT323	40M§	200n†Ø			800n†Ø	2.0	5.0 Ø	3.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO66	CØ
10	UPT324	40M§	200n†Ø			800n†Ø	2.0	5.0 Ø	3.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO66	CØ
11	UPT325	40M§	200n†Ø			800n†Ø	2.0	5.0 Ø	3.0 Ø	10 #	500m#	50p☑		N-PL	Si	200J	TO66	CØ
12♦	JAN2N696	50.0M§△	200nØ			1.0uØ	2.0 Ø	10 Ø	500mØ	12 △#	10	25p☑		N	Si	200S	TO5	AØ
13#	BSX47	50M§△	200nØ		700n	150n	5.0 Ø	1.0 Ø	100mØ	63 △*				N	Si	200J	TO39	A
14	U2T301	50M§△	200n†	100n†	800n†	300n†	1.0	5.0 Ø	2.0 Ø	1.0k△#	750m#	60p☑		N-PL	Si	200A	TO33	KD
15	U2T401	50M§△	200n†	100n†	800n†	300n†	2.0	5.0 Ø	2.0 Ø	1.0k△#	750m#	60p☑		N-PL	Si	200A	F24	KH
16♦	JAN2N697	60.0M§△	200nØ			1.0uØ	2.0 Ø	10 Ø	500mØ	20 △#	10	25p☑		N	Si	200S	TO5	AØ
17	2N3108	60.0M§△	200nØ		600nØ		5.0 Ø	1.0 Ø	150mØ	40 #△		20p☑		N	Si	200S	TO5	AØ
18	2N3110	60.0M§△	200nØ		600nØ		5.0 Ø	1.0 Ø	150mØ	40 #△		25p☑		N	Si	200S	TO5	AØ
19	2N5344	60M§△	200nØ			700nØ	40 Ø	5.0 Ø	1.0 Ø	7.0 △#	3.0 #			P	Si	200J	TO66	CØ
20	2N5345	60M§△	200nØ			700nØ	40 Ø	5.0 Ø	1.0 Ø	7.0 △#	3.0 #			P	Si	200J	TO66	CØ
21	2N5412	60.0M§△	200n	25n	300n	300n	100 Ø	5.0 Ø	2 Ø	20 †△	.10			N	Si	175J	TO61	AØ
22	B148000	60.0M§△	200n	25n	300n	300n	100 Ø	5.0 Ø	.02mØ	160 #☑	.10			N	Si	175J	TO61	AØ
23	B148001	60.0M§△	200n	25n	300n	300n	100 Ø	5.0 Ø	.02mØ	160 #☑	.10			N	Si	175J	TO61	AØ
24	B148002	60.0M§△	200n	25n	300n	300n	100 Ø	5.0 Ø	.02mØ	160 #☑	.10			N	Si	175J	TO61	AØ
25	B148003	60.0M§△	200n	25n	300n	300n	100 Ø	5.0 Ø	.02mØ	160 #☑	.10			N	Si	175J	TO61	AØ
26	B148004	60.0M§△	200n	25n	300n	300n	100 Ø	5.0 Ø	.02mØ	160 #☑	.10			N	Si	175J	TO61	AØ
27	B148005	60.0M§△	200n	25n	300n	300n	100 Ø	5.0 Ø	.02mØ	160 #☑	.10			N	Si	175J	TO61	AØ
28	BD121	60M§△	200n	30n	350n	150n	45	10 Ø	1.0 Ø	30	650m			N-D	Si	175J	TO3	CØ
29	BD123	60M§△	200n	30n	350n	150n	45	10 Ø	1.0 Ø	30	650m			N-D	Si	175J	TO3	CØ
30#	BSX33	60.0M§	200nØ			600nØ	1.8 Ø	10 Ø	10mØ	40 △#		25p☑		N-DPE	Si	200J	TO18	Ø
31	SVT200-20	60M§△	200n	100n†	900n†	300n†Ø		5.0 Ø	20 Ø	15 △	50m			N-PL	Si	200J	TO3	CØ
32	SVT250-20	60M§△	200n	100n†	900n†	300n†Ø		5.0 Ø	20 Ø	15 △	50m			N-PL	Si	200J	TO3	CØ
33	SVT300-20	60M§△	200n	100n†	900n†	300n†Ø		5.0 Ø	20 Ø	15 △	50m			N-PL	Si	200J	TO3	CØ
34	2N3107	70.0M§△	200nØ			1uØ	5.0 Ø	10 Ø	.10mØ	35 △		20p☑		N	Si	200J	TO5	AØ
35	2N3109	70.0M§△	200nØ			1uØ	5.0 Ø	10 Ø	.10mØ	35 △		25p☑		N	Si	200J	TO5	AØ
36#	2SA624	70M§	200nØ		600n	800nØ	7.0 Ø	4.0 Ø	500mØ	35 #△	1.0			P-PE†	Si	125J	B15a	P
37#	2SA647	70M§	200nØ		600n	800nØ	7.0 Ø	4.0 Ø	300mØ	20 #△	2.0			P-PE†	Si	125J	B15a	P
38#	2SC1013	70M§	200nØ		1.0u	1.2uØ	7.0 Ø	4.0 Ø	500mØ	35 #△	1.0			N-PE†	Si	150J	B15a	P
39#	2SC1014	70M§	200nØ		1.0u	1.2uØ	7.0 Ø	4.0 Ø	500mØ	35 #△	1.0			N-PE†	Si	150J	B15a	P
40	PTC193-RT	70M§	200nØ		1.2uØ		7.0	4.0 Ø	500mØ	35 △	1.0	15p		N	Si		B15a	P
41	PT5929	75MØ	200nØ†			800nØ†	53 Ø	5.0 Ø	5.0 Ø	80 △	250m			N-PL	Si	200A	TO59	A
42	2N1838	90.0M§△	200nØ		800nØ		2.0 Ø	1.4 Ø	100mØ	10 △	14	27p☑		N	Si	175J	TO5	A
43	2N1839	90.0M§△	200nØ		600nØ		2.0 Ø	1.4 Ø	150mØ	10 △	9.3	27p☑		N	Si	175J	TO5	A
44	2N5327	100M§△	200nØ			900nØ	5.0 $	5.0 Ø	5 Ø	50 △	.50			N	Si	200J	TO5	A
45	2N5328	100M§△	200nØ			900nØ	30 $	5.0 Ø	5 Ø	50 △	.12			N	Si	200J	TO59	A
46	PT2993	100M§	200nØ†			800nØ†	44 Ø	2.0 Ø	3.0 Ø	100 △		150p		N	Si	200A	T65	
47	PT6944	100M§	200nØ†			800nØ†	80 Ø	3.0 Ø	5.0 Ø	40 △		150p		N	Si	200A	TO3	CØ
48	PT6945	100M§	200nØ†			800nØ†	80 Ø	3.0 Ø	5.0 Ø	40 △		150p		N	Si	200A	TO3	CØ
49	PT6946	100M§	200nØ†			800nØ†	80 Ø	3.0 Ø	5.0 Ø	30 △		150p		N	Si	200A	TO3	CØ
50	PT7912	100M§	200nØ†			800nØ†	80 Ø	3.0 Ø	5.0 Ø	200 △		150p		N	Si	200A	TO3	CØ
51	PT7913	100M§	200nØ†			800nØ†	80 Ø	3.0 Ø	5.0 Ø	50 △		150p		N	Si	200A	TO3	CØ
52	PT7914	100M§	200nØ†			800nØ†	80 Ø	3.0 Ø	5.0 Ø	30 △		150p		N	Si	200A	TO3	CØ
53	PT7915	100M§	200nØ†			800nØ†	80 Ø	3.0 Ø	5.0 Ø	200 △		150p		N	Si	200A	TO3	CØ
54	PT7916	100M§	200nØ†			800nØ†	80 Ø	3.0 Ø	5.0 Ø	50 △		150p		N	Si	200A	TO3	CØ
55	PT7917	100M§	200nØ†			800nØ†	80 Ø	3.0 Ø	5.0 Ø	30 △		150p		N	Si	200A	TO3	CØ
56	PT7918	100M§	200nØ†			800nØ†	80 Ø	3.0 Ø	5.0 Ø	100 △		150p		N	Si	200A	TO3	CØ
57	PT7919	100M§	200nØ†			800nØ†	80 Ø	3.0 Ø	5.0 Ø	30 △		150p		N	Si	200A	TO3	CØ
58	PT7920	100M§	200nØ†			800nØ†	80 Ø	3.0 Ø	5.0 Ø	20 △		150p		N	Si	200A	TO3	CØ
59	PT7958	100M§	200nØ†			800nØ†	80 Ø	3.0 Ø	5.0 Ø	10 △		150p		N	Si	200A	TO3	CØ
60	PT7959	100M§	200nØ†			800nØ†	80 Ø	3.0 Ø	5.0 Ø	10 △		150p		N	Si	200A	TO3	CØ
61	2N1837	140M§△	200nØ		500nØ		2.0 Ø	.80 Ø	150mØ	10 △	5.3	18p☑		N	Si	175J	TO5	A
62	2N1837A	140M§△	200nØ		500nØ		2.8 Ø	.80 Ø	150mØ	10 △	5.3	18p☑		N	Si	175J	TO5	AØ
63#	BSX66	200M§△	200nØ	50n†	100n†	400nØ	260m*	0.0	100mØ	25 △		5p$☑		NPE	Si	175J	TO18	A
64#	BSX67	200M§△	200nØ	50n†	100n†	400nØ	260m*	0.0	100mØ	35 △		5p$☑		NPE	Si	175J	TO18	A
65#	2SC129	8.00M§	220n	45n	880n	420n	125m	.50 Ø	100mØ	45				N-A	Ge	75J	TO5	
66#	BFY56	86.0M§	225nØ			625nØ	5.0mØ	10 Ø	100uØ	15 △		25p☑		N-DPE	Si	200J	TO5	AØ
67	2N2945	10.0M	230n		150n	230n	400m	6.0 Ø	200m△	200	20	9.0p		P-DE	Si	200J	TO46	A
68	2N696A	40M§△	230nØ		300nØ		800m	10 Ø	150mØ	20 △	.10	35p		N	Si	200J	TO5	AØ
69	2N598	5.6M§△	240n		900n	330n	250m	1.0 Ø	200mØ	50 △	20	20p☑		P	Ge	100J	TO5	AØ
70▼	JAN2N598	5.6M§△	240n		900n	330n	250mØ	1.0 Ø	200mØ	160 ☑	20	20p☑		P	Ge	100S	TO5	AØ
71▼	JAN2N600	5.6M§△	240n		900n	330n	750mØ	1.0 Ø	200mØ	160 ☑	20	20p☑		P	Ge	100S	TO5	AØ
72	2N1998	6.6M§△	240n	60n	750n	330n	250m	1.0 Ø	100mØ	225 ☑	20	20p☑		P	Ge	100S	TO5	A
73	2N600	8.00M§	240n		900n	330n	750mØ	1.0 Ø	100mØ	125 †				P-A	Ge	100J	T60	
74	DTS2000		250n†		300n†	180n†	720m			2.0k△	2.0	15p☑		N	Si	150J	TO92	KC
75	DTS2001		250n†		300n†	180n†	720m			400m	2.0	12p☑		N	Si	150J	TO92	KC
76	DTS2002		250n†		300n†	180n†	720m			2.0k△	2.0	12p☑		N	Si	150J	TO92	KC
77	DTS2003		250n†		300n†	180n†	720m			300m	2.0	12p☑		N	Si	150J	TO92	KC
78	DTS410	2.0M§△	250n†		600n†	150n†	100 Ø	5.0 Ø	2.5 Ø	10 △	800m			N-D	Si	150J	Y204a	CØ
79	TIP51	2.5M§△	250nØ†			5.0uØ†	100 Ø	10 Ø	200mØ	30 †△				N	Si	150J	B19	BØ
80	TIP52	2.5M§△	250nØ†			5.0uØ†	100 Ø	10 Ø	200mØ	30 †△				N	Si	150J	B19	BØ
81	TIP53	2.5M§△	250nØ†			5.0uØ†	100 Ø	10 Ø	200mØ	30 †△				N	Si	150J	B19	BØ
82	TIP54	2.5M§△	250nØ†			5.0uØ†	100 Ø	10 Ø	200mØ	30 †△				N	Si	150J	B19	BØ
83	SDT410	4.0M§	250n†		600n†	150n†	80	5.0 Ø	2.5 Ø	10 △				N-ME	Si	200J	TO3	CØ
84	SDT411	4.0M§	250n†		600n†	150n†	100	5.0 Ø	2.5 Ø	10 △				N-ME	Si	200J	TO3	CØ
85	SDT423	4.0M§	250n†		600n†	150n†	100	5.0 Ø	2.5 Ø	10 △				N-ME	Si	200J	TO3	CØ
86	SDT424	4.0M§	250n†		600n†	150n†	100	5.0 Ø	2.5 Ø	10 △				N-D	Si	200J	TO3	CØ
87	SDT425	4.0M§	250n†		600n†	150n†	100	5.0 Ø	2.5 Ø	10 △				N-D	Si	200J	TO3	CØ
88	SDT430	4.0M§	250n†		600n†	150n†	125	5.0 Ø	3.5 Ø	10 △				N-D	Si	200J	TO3	CØ
89	SDT431	4.0M§	250n†		600n†	150n†	125	5.0 Ø	3.5 Ø	10 △				N-D	Si	200J	TO3	CØ
90	2N858	5.0M§△	250n		100n	200n	150m	500mØ	5.0mØ	10 △	3.0	12p☑		P	Si	140S	TO18	A
91	SDT413	6.0M§	250n†		600n†	150n†	75	5.0 Ø	1.0 Ø	15 △				N-ME	Si	200J	TO3	CØ
92	2N1090	7.00M	250n	50n	200n	150n	120m	.20 Ø	20m	50	10	17p		N-A	Ge	85A	TO9	A
93	IR6251	8.0M§	250n		2.5u	1.0u	100 Ø	5.0 Ø	3.0 Ø	140 △	300m			N		150J	TO3	CØ
94	IR6252	8.0M§	250n		2.5u	1.0u	100 Ø	5.0 Ø	3.0 Ø	140 △	300m			N		150J	TO3	CØ
95	IR6253	8.0M§	250n		2.5u	1.0u	100 Ø	5.0 Ø	3.0 Ø	140 △	300m			N		150J	TO3	CØ
96▼	SDT13301	12M§△	250nØ		2.5u	500n	220 Ø	5.0 Ø	5.0 Ø	10 △	200m			N-PL	Si	200J	TO3	C
97▼	SDT13302	12M§△	250nØ		2.5u	500n	220 Ø	5.0 Ø	5.0 Ø	10 △	200m			N-PL	Si	200J	TO3	C
98▼	SDT13303	12M§△	250nØ		2.5u	500n	220 Ø	5.0 Ø	5.0 Ø	10 △	200m			N-PL	Si	200J	TO3	C
99▼	SDT13304	12M§△	250nØ		2.5u	500n	220 Ø	5.0 Ø	5.0 Ø	10 △	300m			N-PL	Si	200J	TO3	C
100▼	SDT13305	12M§△	250nØ		2.5u	500n	220 Ø	5.0 Ø	5.0 Ø	10 △	300m			N-PL	Si	200J	TO3	C
101	2N5660	20M§△	250nØ			850nØ	20 $Ø	5.0 Ø	1.0 Ø	15 △#		60p☑		N	Si	200J	TO66	CØ
102	2N5661	20M§△	250nØ			1.2uØ	20 $Ø	5.0 Ø	1.0 Ø	15 △#		60p☑		N	Si	200J	TO66	CØ
103	2N5662	20M§△	250nØ			850nØ	15 $Ø	5.0 Ø	1.0 Ø	15 △#		60p☑		N	Si	200J	TO5	AØ
104	2N5663	20M§△	250nØ			1.2uØ	15 $Ø	5.0 Ø	1.0 Ø	15 △#		60p☑		N	Si	200J	TO5	AØ
105	2N5664	20M§△	250nØ			1.5uØ	30 $Ø	5.0 Ø	3.0 Ø	15 △#		125p☑		N	Si	200J	TO66	CØ
106	2N5665	20M§△	250nØ			2.0uØ	30 $Ø	10 Ø	3.0 Ø	15 △#		125p☑		N	Si	200J	TO66	CØ
107	2N5666	20M§△	250nØ			1.5uØ	15 $Ø	5.0 Ø	3.0 Ø	15 △#		125p☑		N	Si	200J	TO5	AØ
108	2N5667	20M§△	250nØ			2.0uØ	15 $Ø	10 Ø	3.0 Ø	15 △#		125p☑		N	Si	200J	TO5	AØ
109	2N6232	30M§△	250nØ			1.2uØ	15 Ø	2.0 Ø	500mØ	250 ☑				N-PL	Si		TO5	AØ
110	2N6232-4	30M§△	250nØ			1.2uØ	15 Ø	2.0 Ø	500mØ	250 ☑				N-PL	Si		T32	F

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	[3] TYPE No.	[2] fab (Hz)	[1] MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG
1	TIP32B	3.0M§Δ	300nØ†			1.0uØ†	40 Ø	10 Ø	500mØ	20 †Δ	400m#			P-DM	Si	150J	B1	BØ
2	TIP32C	3 0M§Δ	300nØ†			1.0uØ†	40 Ø	10 Ø	500mØ	20 †Δ	400m#			P-DM	Si	150J	B1	BØ
3	2N2946	5.00M	300n		150n	300n	400m	6.0 Ø	200uΔ	200	20	9.0p		P-DE	Si	200J	TO46	A
4#	2SC1061K	6.0M§	300n†Ø		2.5u†	3.0u†Ø	25 Ø	4.0 Ø	1.0 Ø	35 Δ				N-D	Si	150J	Y220b	D
5#	ASY74-RT	6.0M§Δ	300n	55n	400n	200n	500m	0.0	50u	40 Δ				N-A	Ge	85J	TO5	A§
6#	2SD219	8.0M	300n	40n	2.4u	2.6u	500m	4.0 Ø	200m	80	1.0			N-D	Si	150J	TO5	AØ
7#	2SD220	8.0M	300n	40n	2.4u	2.6u	500m	4.0 Ø	200m	80	1.0			N-D	Si	150J	TO5	AØ
8#	2SD221	8.0M	300n	40n	2.4u	2 6u	500m	4.0 Ø	200m	80	1.0			N-D	Si	150J	TO5	AØ
9#	2SD223	8 0M	300n	40n	2 4u	2.6u	10 Ø	4.0 Ø	500m	60	1.0			N-D	Si	150J	F43	AØ
10#	2SD236	8.0M	300n	40n	2.4u	2.6u	10 Ø	4.0 Ø	500m	60	1.0			N-D	Si	150J	TO66	CØ
11#	2SD237	8.0M	300n	40n	2.4u	2 6u	10 Ø	4.0 Ø	500m	60	1.0			N-D	Si	150J	TO66	CØ
12#	2SD238	8.0M	300n	40n	2.4u	2.6u	10 Ø	4.0 Ø	500m	60	1.0			N-D	Si	150J	TO66	CØ
13	IR5251	8.0M§Δ	300n†		10u†	2.0u†	100 Ø	5.0 Ø	3.0 Ø	140 Δ	300m			ND	Si	150J	TO3	KFØ
14	IR5252	8.0M§Δ	300n†		10u†	2.0u†	100 Ø	5.0 Ø	3.0 Ø	140 Δ	300m			ND	Si	150J	TO3	KFØ
15	IR5253	8.0M§Δ	300n†		10u†	2.0u†	100 Ø	5.0 Ø	3.0 Ø	140 Δ	300m			ND	Si	150J	TO3	KFØ
16	2N440	10M Δ	300n		600n	200n	100m	1.0 Ø	50mØ	70	5 0	20p$☑		N-A	Ge	85J	TO5	A
17	2N440A	10M Δ	300n†		600n†	200n†	150m	1.0 Ø	50mØ	70	5.0	20p$☑		A	Ge	85J	TO5	A§
18	2N2648	10M§Δ	300n		900n	500n	300m	500mØ	1 0 Ø	500 ☑	400m			P	Ge	100C	TO5	AØ
19	2N5050	10M§Δ	300n		3.5u	1.2u	40 Ø	5.0 Ø	1.0 Ø	25 Δ#		250p☑		N	Si	175J	TO66	CØ
20	2N5051	10M§Δ	300n		3.5u	1.2u	40 Ø	5.0 Ø	1 0 Ø	25 Δ#		250p☑		N	Si	175J	TO66	CØ
21	2N5052	10M§Δ	300n		3.5u	1 2u	40 Ø	5.0 Ø	1.0 Ø	25 Δ#		250p☑		N	Si	175J	TO66	CØ
22#	2SC91	10 0M	300n		250n	100n	120m	.30	200m	220 ☑		25p		N	Ge	85	TO5	
23#	ASY29-RT	10M§Δ	300n	75n	800n	520n	150m	1 0 Ø	10mØ	113	20	16p$☑		N-A	Ge	85J	TO5	A§
24	2N397	12M	300n	170n	700n	280n	150m	350mØ	200mØ	20 Δ	4.0	12p		P-A	Ge	100S	TO5	A§
25	2N1357	12 0M	300n†	170n†	700n†	280n†	200m	1 0 Ø	10mØ	85	4 0	12p	160n†	P-A	Ge	85J	TO5	A
26	2N2424	15.0M	300nØ		300n	200n	375m	1.0 Ø	25mØ	25 Δ	20	14p		P-A	Si	160S	TO5	A
27♦	JAN2N2880	20M§Δ	300n	60n	1.7u	300n	30 Ø$	5.0 Ø	5.0 Ø	15 Δ#		150p☑		N	Si	200A	ZA30	AØ
28♦	JAN2N3749	20M§Δ	300n	60n	1.7u	300n	30 Ø$	5 0 Ø	5 0 Ø	15 Δ#		150p☑		N	Si	200A	T53e	M
29▼	SDT12301	20M§Δ	300nØ		1.5u	350n	220 Ø	5 0 Ø	10 Ø	10 Δ	400m			N-PL	Si	200J	TO3	C
30▼	SDT12302	20M§Δ	300nØ		1.5u	350n	220 Ø	5 0 Ø	10 Ø	10 Δ	400m			N-PL	Si	200J	TO3	C
31▼	SDT12303	20M§Δ	300nØ		1.5u	350n	220 Ø	5.0 Ø	10 Ø	10 Δ	400m			N-PL	Si	200J	TO3	C
32#	2SD536	27M§	300n†		1.5u†	300n†	100 Ø	5.0 Ø	5.0 Ø	50	300m			N-DM	Si	175J	TO3	CØ
33#	2SD537	27M§	300n†		1.5u†	300n†	100 Ø	5.0 Ø	5 0 Ø	50	300m			N-DM	Si	175J	TO3	CØ
34	2N5731	30M§Δ	300n		3.0u	600n	75 Ø#	5 0 Ø	20 Ø	5.0 Δ	120m	350p☑		N	Si	200J	TO61	A
35	2N5732	30M§Δ	300n		3.0u	600n	75 Ø#	5.0 Ø	20 Ø	5.0 Δ	120m	350p☑		N	Si	200J	TO3	AØ
36	1723-0410	30M§Δ	300nØ			500n	300n	85 Ø$	4.0 Ø	10 Ø	20 Δ#	125m#	800p☑		N-E	Si	200J	TO66	CØ
37	1723-0610	30M§Δ	300nØ			500n	300n	85 Ø$	4.0 Ø	10 Ø	20 Δ#	125m#	800p☑		N-E	Si	200J	TO66	CØ
38	1723-0810	30M§Δ	300nØ			500n	300n	85 Ø$	4 0 Ø	10 Ø	20 Δ#	125m#	800p☑		N-E	Si	200J	TO66	CØ
39	1723-1010	30M§Δ	300nØ			500n	300n	85 Ø$	4.0 Ø	10 Ø	20 Δ#	125m#	800p☑		N-E	Si	200J	TO66	CØ
40	1723-1210	30M§Δ	300nØ			500n	300n	85 Ø$	4.0 Ø	10 Ø	20 Δ#	125m#	800p☑		N-E	Si	200J	TO66	CØ
41	1723-1410	30M§Δ	300nØ			500n	300n	85 Ø$	4.0 Ø	10 Ø	20 Δ#	125m#	800p☑		N-E	Si	200J	TO66	CØ
42	1723-1610	30M§Δ	300nØ			500n	300n	85 Ø$	4.0 Ø	10 Ø	20 Δ#	125m#	800p☑		N-E	Si	200J	TO66	CØ
43	1723-1810	30M§Δ	300nØ			500n	300n	85 Ø$	4 0 Ø	10 Ø	20 Δ#	125m#	800p☑		N-E	Si	200J	TO66	CØ
44	1743-0810	30M§Δ	300nØ			500n	300n	85 $Ø	2 0 Ø	10 Ø	20 #Δ		800p☑		N-E	Si	200J	TO3	CØ
45	1743-1210	30M§Δ	300nØ			500n	300n	85 $Ø	2.0 Ø	10 Ø	20 #Δ		800p☑		N-E	Si	200J	TO3	CØ
46	1743-1610	30M§Δ	300nØ			500n	300n	85 $Ø	2.0 Ø	10 Ø	20 #Δ		800p☑		N-E	Si	200J	TO3	CØ
47	1748-0610	30M§Δ	300nØ			500n	300n	100 $Ø	2.0 Ø	10 Ø	20 #Δ		800p☑		N-E	Si	200J	TO63	A
48	1748-0810	30M§Δ	300nØ			500n	300n	100 $Ø	2.0 Ø	10 Ø	20 #Δ		800p☑		N-E	Si	200J	TO63	A
49	1748-1010	30M§Δ	300nØ			500n	300n	100 $Ø	2.0 Ø	10 Ø	20 #Δ		800p☑		N-E	Si	200J	TO63	A
50	1748-1210	30M§Δ	300nØ			500n	300n	100 $Ø	2.0 Ø	10 Ø	20 #Δ		800p☑		N-E	Si	200J	TO63	A
51	1748-1410	30M§Δ	300nØ			500n	300n	100 $Ø	2.0 Ø	10 Ø	20 #Δ		800p☑		N-E	Si	200J	TO63	A
52	1748-1610	30M§Δ	300nØ			500n	300n	100 $Ø	2.0 Ø	10 Ø	20 #Δ		800p☑		N-E	Si	200J	TO63	A
53	1748-1810	30M§Δ	300nØ			500n	300n	100 $Ø	2.0 Ø	10 Ø	20 #Δ		800p☑		N-E	Si	200J	TO63	A
54	1763-0610	30M§Δ	300nØ			500n	300n	85 Ø$	2.0 Ø	10 Ø	20 Δ#		800p☑		N-E	Si	200J	TO3	CØ
55	1763-0810	30M§Δ	300nØ			500n	300n	85 Ø$	2.0 Ø	10 Ø	20 Δ#		800p☑		N-E	Si	200J	TO3	CØ
56	1763-1010	30M§Δ	300nØ			500n	300n	85 Ø$	2.0 Ø	10 Ø	20 Δ#		800p☑		N-E	Si	200J	TO3	CØ
57	1763-1210	30M§Δ	300nØ			500n	300n	85 Ø$	2.0 Ø	10 Ø	20 Δ#		800p☑		N-E	Si	200J	TO3	CØ
58	1763-1410	30M§Δ	300nØ			500n	300n	85 Ø$	2.0 Ø	10 Ø	20 Δ#		800p☑		N-E	Si	200J	TO3	CØ
59	1763-1610	30M§Δ	300nØ			500n	300n	85 Ø$	2.0 Ø	10 Ø	20 Δ#		800p☑		N-E	Si	200J	TO3	CØ
60	1763-1810	30M§Δ	300nØ			500n	300n	85 Ø$	2.0 Ø	10 Ø	20 Δ#		800p☑		N-E	Si	200J	TO3	CØ
61	1768-0610	30M§Δ	300nØ			500n	300n	100 Ø$	2.0 Ø	10 Ø	20 Δ#		800p☑		N-E	Si	200J	TO63	A
62	1768-0810	30M§Δ	300nØ			500n	300n	100 $Ø	2.0 Ø	10 Ø	20 Δ#		800p☑		N-E	Si	200J	TO63	A
63	1768-1010	30M§Δ	300nØ			500n	300n	100nØ$	2 0 Ø	10 Ø	20 Δ#		800p☑		N-E	Si	200J	TO63	A
64	1768-1210	30M§Δ	300nØ			500n	300n	100nØ$	2.0 Ø	10 Ø	20 Δ#		800p☑		N-E	Si	200J	TO63	A
65	1768-1410	30M§Δ	300nØ			500n	300n	100 Ø$	2.0 Ø	10	20 Δ#		800p☑		N-E	Si	200J	TO63	A
66	1768-1610	30M§Δ	300nØ			500n	300n	100 Ø$	2.0 Ø	10	20 Δ#		800p☑		N-E	Si	200J	TO63	A
67	1768-1810	30M§Δ	300nØ			500n	300n	100 Ø$	2.0 Ø	10	20 Δ#		800p☑		N-E	Si	200J	TO63	A
68	1814-2001	30M§Δ	300n			600n	300n	44 Ø	4.0 Ø	1.0 Ø	20 Δ#	600m#	250p☑		N-E	Si	150J	TO66	CØ
69	1814-2201	30M§Δ	300n			600n	300n	44 Ø	4.0 Ø	1.0 Ø	20 Δ#	600m#	250p☑		N-E	Si	150J	TO66	CØ
70	1814-2501	30M§Δ	300n			600n	300n	44 Ø	4.0 Ø	1.0 Ø	20 Δ#	600m#	250p☑		N-E	Si	150J	TO66	CØ
71	1814-2701	30M§Δ	300n			600n	300n	44 Ø	4.0 Ø	1.0 Ø	20 Δ#	600m#	250p☑		N-E	Si	150J	TO66	CØ
72	1814-3001	30M§Δ	300n			600n	300n	44 Ø	4.0 Ø	1.0 Ø	20 Δ#	600m#	250p☑		N-E	Si	150J	TO66	CØ
73	1814-3201	30M§Δ	300n			600n	300n	44 Ø	4.0 Ø	1.0 Ø	20 Δ#	600m#	250p☑		N-E	Si	150J	TO66	CØ
74	1814-3501	30M§Δ	300n			600n	300n	44 Ø	4.0 Ø	1.0 Ø	20 Δ#	600m#	250p☑		N-E	Si	150J	TO66	CØ
75	1814-3701	30M§Δ	300n			600n	300n	44 Ø	4.0 Ø	1.0 Ø	20 Δ#	600m#	250p☑		N-E	Si	150J	TO66	CØ
76#	BSX62-10	30M§Δ	300nØ		1.5uØ		875m	1.0 Ø	100mØ	110		700m	70p$☑		N-PE	Si	200J	TO39	AØ
77#	BSX62-16	30M§Δ	300nØ		1.5uØ		875m	1.0 Ø	100mØ	180		700m	70p$☑		N-PE	Si	200J	TO39	AØ
78#	BSX63-10	30M§Δ	300nØ		1.5uØ		875m	1.0 Ø	100mØ	110		700m	70p$☑		N-PE	Si	200J	TO39	AØ
79#	BSX63-16	30M§Δ	300nØ		1.5uØ		875m	1.0 Ø	100mØ	180		700m	70p$☑		N-PE	Si	200J	TO39	AØ
80#	BSX64-10	30M§Δ	300nØ		1.5uØ		875m	1.0 Ø	100mØ	110		700m	70p$☑		N-PE	Si	200J	TO39	AØ
81	SDT3205	30.0M§Δ	300n		1.5u	300n	3.0 Ø	5.0 Ø	5.0 Ø	90 ☑#			500p☑		N-PE	Si	200J	TO61	A
82	SDT3206	30.0M§Δ	300n		1.5u	300n	3.0 Ø	5.0 Ø	5.0 Ø	90 ☑#			500p☑		N-PE	Si	200J	TO61	A
83	SDT3207	30.0M§Δ	300n		1.5u	300n	3.0 Ø	5.0 Ø	5.0 Ø	90 ☑#			500p☑		N-PE	Si	200J	TO61	A
84	SDT3208	30.0M§Δ	300n		1.5u	300n	3.0 Ø	5.0 Ø	5.0 Ø	90 ☑#			500p☑		N-PE	Si	200J	TO61	A
85	SDT3209	30.0M§Δ	300n		1.5u	300n	3.0 Ø	5.0 Ø	5.0 Ø	90 ☑#			500p☑		N-PE	Si	200J	TO61	A
86	2N3418	40.0M§Δ	300nØ			1.2uØ	15 $	2.0 Ø	1 Ø	60 ☑	.25		150p☑		N	Si	200C	TO5	AØ
87	2N3419	40.0M§Δ	300nØ			1.2uØ	15 $	2.0 Ø	1 Ø	120 ☑	.25		150p☑		N	Si	200C	TO5	AØ
88	2N3420	40.0M§Δ	300nØ			1.2uØ	15 $	2 0 Ø	1 Ø	60 ☑	.25		150p☑		N	Si	200C	TO5	AØ
89	2N3421	40.0M§Δ	300nØ			1.2uØ	15 $	2.0 Ø	1 Ø	120 ☑	.25		150p☑		N	Si	200C	TO5	AØ
90	2N3551	40.0M§Δ	300nØ		2.5uØ		40	2.0 Ø	10 Ø	90 #☑	.10		850p		N	Si	200S	W39	
91	2N3552	40.0M§Δ	300nØ		2.5uØ		40	2.0 Ø	10 Ø	90 #☑	.10		850p		N	Si	200S	W39	
92	2N3996	40M§Δ	300nØ			1.5uØ	30 Ø	5.0 Ø	5.0 Ø	15 Δ#			150p☑		N	Si	200J	T53	M
93	2N3997	40M§Δ	300nØ			2 0uØ	30 Ø	5.0 Ø	5.0 Ø	20 Δ#			150p☑		N	Si	200J	T53	M
94	2N3998	40M§Δ	300nØ			1.5uØ	30 Ø	5.0 Ø	5.0 Ø	15 Δ#			150p☑		N	Si	200J	T42	AØ
95	2N3999	40M§Δ	300nØ			2.0uØ	30 Ø	5.0 Ø	5.0 Ø	20 Δ#			150p☑		N	Si	200J	T42	AØ
96	2N4000	40.0M§Δ	300nØ			2uØ	15 Ø$	2 0 Ø	50mØ	10 Δ	500m		60p☑		N	Si	200J	TO5	AØ
97	2N4001	40.0M§Δ	300nØ			2uØ	15 Ø$	2 0 Ø	50mØ	20 Δ	500m		60p☑		N	Si	200J	TO5	AØ
98	2N6338	40M§Δ	300n		1.0u	250n	200 Ø	2.0 Ø	25 Ø	12 Δ#			300p☑		N	Si	200J	TO3	CØ
99	2N6339	40M§Δ	300n		1.0u	250n	200 Ø	2.0 Ø	25 Ø	12 Δ#			300p☑		N	Si	200J	TO3	CØ
100	2N6340	40M§Δ	300n		1.0u	250n	200 Ø	2.0 Ø	25 Ø	12 Δ#			300p☑		N	Si	200J	TO3	CØ
101	2N6341	40M§Δ	300n		1.0u	250n	200 Ø	2.0 Ø	25 Ø	12 Δ#			300p☑		N	Si	200J	TO3	CØ
102	2N6436	40M§Δ	300n		1.0u	250n	200 Ø	2.0 Ø	25 Ø	12 Δ#			700p☑		P	Si	200J	TO3	CØ
103	2N6437	40M§Δ	300n		1.0u	250n	200 Ø	2.0 Ø	25 Ø	12 Δ#			700p☑		P	Si	200J	TO3	CØ
104	2N6438	40M§Δ	300n		1.0u	250n	200 Ø	2.0 Ø	25 Ø	12 Δ#			700p☑		P	Si	200J	TO3	CØ
105	1714-0402	40M§Δ	300nØ			600n	300nØ	25 Ø$	2.0 Ø	2.0 Ø	20 Δ#	300m#	250p☑		N-E	Si	200J	TO66	CØ
106	1714-0602	40M§Δ	300nØ			600n	300nØ	25 Ø$	2.0 Ø	2.0 Ø	20 Δ#	300m#	250p☑		N-E	Si	200J	TO66	CØ
107	1714-0802	40M§Δ	300nØ			600n	300nØ	25 Ø$	2 0 Ø	2.0 Ø	20 Δ#	300m#	250p☑		N-E	Si	200J	TO66	CØ
108	1714-1002	40M§Δ	300nØ			600n	300nØ	25 Ø$	2.0 Ø	2.0 Ø	20 Δ#	300m#	250p☑		N-E	Si	200J	TO66	CØ
109	1714-1202	40M§Δ	300nØ			600n	300nØ	25 Ø$	2 0 Ø	2 0 Ø	20 Δ#	300m#	250p☑		N-E	Si	200J	TO66	CØ
110	1714-1402	40M§Δ	300nØ			600n	300nØ	25 Ø$	2 0 Ø	2 0 Ø	20 Δ#	300m#	250p☑		N-E	Si	200J	TO66	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	M A T	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	2N1892	5.0M§Δ	350n	150n	1.2u	650n	150m	350mØ	200mØ	15 Δ	2.0	20pØ		P	Ge	85J	TO5	A§
2▼	TIP73	5.0M§	350n	20n	500n	400n	2.0	4.0 Ø	15 Ø	5.0 Δ#	260m#			N-DM†	Si	150J	B1	BØ
3▼	TIP73A	5.0M§	350n	20n	500n	400n	2.0	4.0 Ø	15 Ø	5.0 Δ#	260m#			N-DM†	Si	150J	B1	BØ
4▼	TIP73B	5.0M§	350n	20n	500n	400n	2.0	4.0 Ø	15 Ø	5.0 Δ#	260m#			N-DM†	Si	150J	B1	BØ
5▼	TIP73C	5.0M§	350n	20n	500n	400n	2.0	4.0 Ø	15 Ø	5.0 Δ#	260m#			N-DM†	Si	150J	B1	BØ
6#	ASY27-RT	6.0M§Δ	350n	75n	1.5u	620n	150m	1.0 Ø	10mØ	80	20	16p$Ø		P-A	Ge	85J	TO5	A§
7	2N3216	9.0M§Δ	350nØ		250n		150m	.22 Ø	200mØ	60 Δ	1.1	20pØ		P	Ge	100S	TO5	A
8#	2G605	9.40M	350n†	160n†	440n†	280n†	150m	.25 Ø	4.5mØ	75		12p		P-A	Ge	85J	TO5	
9	2N3445	10.0M§Δ	350nØ		2.0u	350n	115 Ø	5.0 Ø	3.0mØ	60 Ø	500m	400pØ		N-EA	Si	200J	TO3	CØ
10	2N3446	10.0M§Δ	350nØ		2.0u	350n	115 Ø	5.0 Ø	3.0mØ	60 Ø	500m	400pØ		N-EA	Si	200J	TO3	CØ
11	2N3447	10.0M§Δ	350nØ		2.0u	350n	115 Ø	5.0 Ø	5.0mØ	120 Ø	300m	400pØ		N-EA	Si	200J	TO3	CØ
12	2N3448	10.0M§Δ	350nØ		2.0u	350n	115 Ø	5.0 Ø	5.0mØ	120 Ø	300m	400pØ		N-EA	Si	200J	TO3	CØ
13	2N3487	10M§Δ	350nØ		2.0u	350n	115 Ø	5.0 Ø	500mØ	20 Δ	4.0	550pØ		N	Si	200C	TO61	
14	2N3488	10M§Δ	350nØ		2.0u	350n	115 Ø	5.0 Ø	500mØ	20 Δ	4.0	550pØ		N	Si	200C	TO61	
15	2N3489	10M§Δ	350nØ		2.0u	350n	115 Ø	5.0 Ø	500mØ	20 Δ	4.0	550pØ		N	Si	200C	TO61	
16	2N3490	10M§Δ	350nØ		2.0u	350n	115 Ø	5.0 Ø	500mØ	40 Δ	3.3	550pØ		N	Si	200C	TO61	
17	2N3491	10M§Δ	350nØ		2.0u	350n	115 Ø	5.0 Ø	500mØ	40 Δ	3.3	550pØ		N	Si	200C	TO61	
18	2N3492	10M§Δ	350nØ		2.0u	350n	115 Ø	5.0 Ø	500mØ	40 Δ	3.3	550pØ		N	Si	200C	TO61	
19	JAN2N337	12.5M§Δ	350nØ		200n	200n	125m	5.0 Ø	10mØ	20 Δ	150	3.0pØ		N	Si	150A	TO5	A
20	2N907	12.5M§Δ	350nØ		200n	200n	150m	5.0 Ø	10mØ	20 Δ	150	3.0pØ		N	Si	175S	R218	AØ
21	JAN2N338	25M§Δ	350nØ		350n	350n	125m	5.0 Ø	10mØ	45 Δ	150	3.0pØ		N	Si	150A	TO5	A
22	2N6377	25M§Δ	350n		800n	250n	250 Ø	4.0 Ø	1.0 Ø	50 Δ#	50m#	1.5nØ		P	Si	200J	F11a	CØ
23	2N6378	25M§Δ	350n		800n	250n	250 Ø	4.0 Ø	1.0 Ø	50 Δ#	50m#	1.5nØ		P	Si	200J	F11a	CØ
24	2N6379	25M§Δ	350n		800n	250n	250 Ø	4.0 Ø	1.0 Ø	50 Δ#	50m#	1.5nØ		P	Si	200J	F11a	CØ
25	2N6380	25M§Δ	350n		800n	250n	250 Ø	4.0 Ø	1.0 Ø	50 Δ#	60m#	1.5nØ		P	Si	200J	TO63	AØ
26	2N6381	25M§Δ	350n		800n	250n	250 Ø	4.0 Ø	1.0 Ø	50 Δ#	60m#	1.5nØ		P	Si	200J	TO63	AØ
27	2N6382	25M§Δ	350n		800n	250n	250 Ø	4.0 Ø	1.0 Ø	50 Δ#	60m#	1.5nØ		P	Si	200J	TO63	AØ
28	2N6495	25M§Δ	350nØ			350nØ	70 Ø	3.0 Ø	.10 Ø	10 Δ#	150m#			N	Si	200J	TO66	CØ
29	2N6274	30M§Δ	350n		800n	250n	250 Ø	4.0 Ø	1.0 Ø	50 Δ#		600pØ		N	Si	200J	F11a	CØ
30	2N6275	30M§Δ	350n		800n	250n	250 Ø	4.0 Ø	1.0 Ø	50 Δ#		600pØ		N	Si	200J	F11a	CØ
31	2N6276	30M§Δ	350n		800n	250n	250 Ø	4.0 Ø	1.0 Ø	50 Δ#		600pØ		N	Si	200J	F11a	CØ
32	2N6277	30M§Δ	350n		800n	250n	250 Ø	4.0 Ø	1.0 Ø	50 Δ#		600pØ		N	Si	200J	F11a	CØ
33	2N6278	30M§Δ	350n		800n	250n	250 Ø	4.0 Ø	1.0 Ø	50 Δ#		600pØ		N	Si	200J	TO63	AØ
34	2N6279	30M§Δ	350n		800n	250n	250 Ø	4.0 Ø	1.0 Ø	50 Δ#		600pØ		N	Si	200J	TO63	AØ
35	2N6280	30M§Δ	350n		800n	250n	250 Ø	4.0 Ø	1.0 Ø	50 Δ#		600pØ		N	Si	200J	TO63	AØ
36	2N6281	30M§Δ	350n		800n	250n	250 Ø	4.0 Ø	1.0 Ø	50 Δ#		600pØ		N	Si	200J	TO63	AØ
37#	BUY24	50.0M§Δ	350nØ			650nØ	15 §	2.0 Ø	500uØ	100 #		35p		N-DPE	Si	150J	TO3	CØ
38	2N5584	70M§Δ	350nØ			1.2mØ	1.0kØ	3.0 Ø	20 Ø	15 Δ	75m			N	Si	200J	TO63	AØ
39	BDY90	70M§	350nØ		1.3u	200n	40 Ø§	2.0 Ø	1.0 Ø	35	150m			N	Si	175J	TO3	CØ
40	BDY91	70M§	350nØ		1.3u	200n	40 Ø§	2.0 Ø	1.0 Ø	35	150m			N	Si	175J	TO3	CØ
41	BDY92	70M§	350nØ		1.3u	200n	40 Ø§	2.0 Ø	1.0 Ø	35	100m			N	Si	175J	TO3	CØ
42	2N5329	80.0M§Δ	350nØ			1.1uØ	65 §	3.0 Ø	20 Ø	10 Δ	.09			N	Si	200J	TO61	A
43	2N5330	80.0M§Δ	350nØ			1.2uØ	80 §	3.0 Ø	30 Ø	10 Δ	.06			N	Si	200J	TO61	A
44	2N5331	80.0M§Δ	350nØ			1.2uØ	100 §	3.0 Ø	30 Ø	10 Δ	.06			N	Si	200J	TO63	A
45	PT3993	100M§	350nØ†			1.0uØ†	200 Ø	2.0 Ø	20 Ø	15 Δ		600p		N	Si	200A	TO63	
46	PT5955	100M§	350nØ†			1.0uØ†	175 Ø	5.0 Ø	15 Ø	25 Δ		600p		N	Si	200A	TO63	
47	PT6909	100M§	350nØ†			1.0uØ†	175 Ø	2.0 Ø	10 Ø	20 Δ		600p		N	Si	200A	TO81	
48	PT6910	100M§	350nØ†			1.0uØ†	175 Ø	2.0 Ø	10 Ø	20 Δ		600p		N	Si	200A	TO63	
49	PT6939	100M§	350nØ†			1.0uØ†	100 Ø	5.0 Ø	5.0 Ø	40 Δ		600p		N	Si	200A	TO61	
50	PT6950	100M§	350nØ†			1.0uØ†	175 Ø	5.0 Ø	10 Ø	40 Δ		600p		N	Si	200A	TO3	CØ
51	PT7930	100M§	350nØ†			1.0uØ†	175 Ø	5.0 Ø	10 Ø	30 Δ		600p		N	Si	200A	TO3	CØ
52	PT7931	100M§	350nØ†			1.0uØ†	175 Ø	5.0 Ø	10 Ø	40 Δ		600p		N	Si	200A	TO3	CØ
53	PT7932	100M§	350nØ†			1.0uØ†	175 Ø	5.0 Ø	10 Ø	30 Δ		600p		N	Si	200A	TO3	CØ
54	PT7933	100M§	350nØ†			1.0uØ†	175 Ø	5.0 Ø	10 Ø	30 Δ		600p		N	Si	200A	TO3	CØ
55	PT7934	100M§	350nØ†			1.0uØ†	175 Ø	5.0 Ø	10 Ø	40 Δ		600p		N	Si	200A	TO3	CØ
56	PT7935	100M§	350nØ†			1.0uØ†	175 Ø	5.0 Ø	10 Ø	30 Δ		600p		N	Si	200A	TO3	CØ
57	PT7936	100M§	350nØ†			1.0uØ†	175 Ø	5.0 Ø	10 Ø	20 Δ		600p		N	Si	200A	TO3	CØ
58	PT7937	100M§	350nØ†			1.0uØ†	175 Ø	5.0 Ø	10 Ø	30 Δ		600p		N	Si	200A	TO3	CØ
59	PT7938	100M§	350nØ†			1.0uØ†	175 Ø	5.0 Ø	10 Ø	20 Δ		600p		N	Si	200A	TO3	CØ
60	PT5956	125M§	360nØ†			1.0uØ†	175 Ø	5.0 Ø	10 Ø	20 Δ		600p		N	Si	200A	TO63	
61	PT5961	125M§	360nØ†			1.0uØ†	175 Ø	5.0 Ø	5.0 Ø	40 Δ		600p		N	Si	200A	TO63	
62	PT7939	125M§	360nØ†			1.0uØ†	220 Ø	5.0 Ø	20 Ø	20 Δ		600p		N	Si	200A	TO3	CØ
63	PT7940	125M§	360nØ†			1.0uØ†	220 Ø	5.0 Ø	20 Ø	30 Δ		600p		N	Si	200A	TO3	CØ
64	PT7941	125M§	360nØ†			1.0uØ†	220 Ø	5.0 Ø	20 Ø	20 Δ		600p		N	Si	200A	TO3	CØ
65	PT7942	125M§	360nØ†			1.0uØ†	220 Ø	5.0 Ø	20 Ø	20 Δ		600p		N	Si	200A	TO3	CØ
66	PT7943	125M§	360nØ†			1.0uØ†	220 Ø	5.0 Ø	20 Ø	30 Δ		600p		N	Si	200A	TO3	CØ
67	PT7944	125M§	360nØ†			1.0uØ†	220 Ø	5.0 Ø	20 Ø	20 Δ		600p		N	Si	200A	TO3	CØ
68	PT7945	125M§	360nØ†			1.0uØ†	220 Ø	5.0 Ø	20 Ø	20 Δ		600p		N	Si	200A	TO3	CØ
69	PT7946	125M§	360nØ†			1.0uØ†	220 Ø	5.0 Ø	20 Ø	30 Δ		600p		N	Si	200A	TO3	CØ
70	PT7947	125M	360nØ†			1.0uØ†	220 Ø	5.0 Ø	20 Ø	20 Δ		600p		N	Si	200A	TO3	CØ
71	2N447B		400nØ		700nØ		150m	.25 Ø	20mØ	80 Δ				N	Ge	100S	TO5	A
72#	2SC1055H		400nØ†		3.5u	4.0uØ†	25 Ø	4.0 Ø	5.0 Ø	30 Δ	333m			N-D	Si	150J	TO66	CØ
73#	2SC1227		400nØ†		1.8u	2.3uØ†	100 Ø	5.0 Ø	5.0 Ø	50	150m			N-DM	Si	175J	TO3	CØ
74#	2SD558		400nØ†		1.0u†	2.0u†	1.0	2.0 Ø	1.0 Ø	4.0k#	1.5 #			NE	Si	150J	Y221b	DØ
75	SDM6000		400n		3.0u	1.0u	80 Ø§	5.0 Ø	10 Ø	100 Δ	140m			N	Si	200J	TO3	KFØ
76	SDM6001		400n		3.0u	1.0u	80 Ø§	5.0 Ø	10 Ø	100 Δ	140m			N	Si	200J	TO3	KFØ
77	SDM6002		400n		3.0u	1.0u	80 Ø§	5.0 Ø	10 Ø	100 Δ	140m			N	Si	200J	TO3	KFØ
78	SDM6003		400n		3.0u	1.0u	80 Ø§	5.0 Ø	10 Ø	100 Δ	140m			N	Si	200J	TO3	KFØ
79	SDM6004		400n		3.0u	1.0u	80 Ø§	5.0 Ø	10 Ø	100 Δ	140m			N	Si	200J	TO3	KFØ
80	TIP2955		400nØ†			400nØ	90 Ø	4.0 Ø	1.0 Ø	15 Δ				P-DM	Si	150J	B19	BØ
81	MA4404	1.0MΔ	400n†	130n†	1.1u†	600n†	300mØ	200mØ	12mØ	80	16	25pØ		P	Ge	100J	TO5	A
82	IR409	2.5M§Δ	400n†		600n†	200n†	125 Ø	5.0 Ø	1.0 Ø	15 Δ	1.2			N-D	Si	150J	TO3	CØ
83	RCA29	3.0M§Δ	400n†Ø			1.2uØ	30 Ø	10 Ø	200mØ	20 †Δ				N-E†	Si	150J	Y220b	XØ
84	RCA29A	3.0M§Δ	400n†Ø			1.2uØ	30 Ø	10 Ø	200mØ	20 †Δ				N-E†	Si	150J	Y220b	XØ
85	RCA29B	3.0M§Δ	400n†Ø			1.2uØ	30 Ø	10 Ø	200mØ	20 †Δ				N-E†	Si	150J	Y220b	XØ
86	RCA29C	3.0M§Δ	400n†Ø			1.2uØ	30 Ø	10 Ø	200mØ	20 †Δ				N-E†	Si	150J	Y220b	XØ
87	RCA31	3.0M§Δ	400n†Ø			1.2uØ	40 Ø	10 Ø	500mØ	20 †Δ				N-E†	Si	150J	Y220b	XØ
88	RCA31A	3.0M§Δ	400n†Ø			1.2uØ	40 Ø	10 Ø	500mØ	20 †Δ				N-E†	Si	150J	Y220b	XØ
89	RCA31B	3.0M§Δ	400n†Ø			1.2uØ	40 Ø	10 Ø	500mØ	20 †Δ				N-E†	Si	150J	Y220b	XØ
90	RCA31C	3.0M§Δ	400n†Ø			1.2uØ	40 Ø	10 Ø	500mØ	20 †Δ				N-E†	Si	150J	Y220b	XØ
91	RCA42	3.0M§Δ	400n†Ø			900n†Ø	65 Ø	10 Ø	500m	20 †Δ				P-E†	Si	150J	Y220b	XØ
92	RCA42A	3.0M§Δ	400n†Ø			900n†Ø	65 Ø	10 Ø	500m	20 †Δ				P-E†	Si	150J	Y220b	XØ
93	RCA42B	3.0M§Δ	400n†Ø			900n†Ø	65 Ø	10 Ø	500m	20 †Δ				P-E†	Si	150J	Y220b	XØ
94	RCA42C	3.0M§Δ	400n†Ø			900n†Ø	65 Ø	10 Ø	500m	20 †Δ				P-E†	Si	150J	Y220b	XØ
95▼	TIP29Ø	3.0MΔ§	400n†Ø			1.2uØ	30 Ø	10 Ø	200mØ	20 †Δ	700m#			N-E†	Si	150J	Y220b	XØ
96▼	TIP29AØ	3.0MΔ§	400n†Ø			1.2uØ	30 Ø	10 Ø	200mØ	20 †Δ	700m#			N-E†	Si	150J	Y220b	XØ
97▼	TIP29BØ	3.0MΔ§	400n†Ø			1.2uØ	30 Ø	10 Ø	200mØ	20 †Δ	700m#			N-E†	Si	150J	Y220b	XØ
98▼	TIP29CØ	3.0MΔ§	400n†Ø			1.2uØ	30 Ø	10 Ø	200mØ	20 †Δ	700m#			N-E†	Si	150J	Y220b	XØ
99▼	TIP31Ø	3.0M§Δ	400n†Ø			1.2uØ	40 Ø	10 Ø	500mØ	20 †Δ	400m#			N-E†	Si	150J	Y220b	XØ
100▼	TIP31AØ	3.0M§Δ	400n†Ø			1.2uØ	40 Ø	10 Ø	500mØ	20 †Δ	400m#			N-E†	Si	150J	Y220b	XØ
101▼	TIP31BØ	3.0M§Δ	400n†Ø			1.2uØ	40 Ø	10 Ø	500mØ	20 †Δ	400m#			N-E†	Si	150J	Y220b	XØ
102▼	TIP31CØ	3.0M§Δ	400n†Ø			1.2uØ	40 Ø	10 Ø	500mØ	20 †Δ	400m#			N-E†	Si	150J	Y220b	XØ
103	TIP34	3.0M§Δ	400nØ†			700nØ†	80 Ø	10 Ø	500mØ	20 †Δ				P-DM	Si	150S	B3	BØ
104	TIP34A	3.0M§Δ	400nØ†			700nØ†	80 Ø	10 Ø	500mØ	20 †Δ				P-DM	Si	150S	B3	BØ
105	TIP34B	3.0M§Δ	400nØ†			700nØ†	80 Ø	10 Ø	500mØ	20 †Δ				P-DM	Si	150S	B3	BØ
106	TIP34C	3.0M§Δ	400nØ†			700nØ†	80 Ø	10 Ø	500mØ	20 †Δ				P-DM	Si	150S	B3	BØ
107	TIP42	3.0M§Δ	400nØ†			700nØ†	65 Ø	10 Ø	500mØ	20 †Δ				P-DM	Si	150J	B1	BØ
108▼	TIP42Ø	3.0M§Δ	400nØ†			900n†Ø	65 Ø	10 Ø	500mØ	20 †Δ	333m#			P-E†	Si	150J	Y220b	XØ
109	TIP42A	3.0M§Δ	400nØ†			700nØ†	65 Ø	10 Ø	500mØ	20 †Δ				P-DM	Si	150J	B1	BØ
110▼	TIP42AØ	3.0M§Δ	400n†Ø			900n†Ø	65 Ø	10 Ø	500mØ	20 †Δ	333m#			P-E†	Si	150J	Y220b	XØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG
1#	BDX45	1.0G§	400nØ			2.0uØ	1.2	10 Ø	150mØ	1 0k△	1.6			P-PL	Si	150J	TO126	KBØ
2#	BDX46	1.0G§	400nØ			2.0uØ	1.2	10 Ø	150mØ	1.0k△	1.6			P-PL	Si	150J	TO126	KBØ
3#	BSS60	1.0G§	400nØ			2.0uØ	800m	10 Ø	150mØ	1.0k△	2 6			P-PL	Si	200J	TO39	KCØ
4#	BSS61	1.0G§	400nØ			2.0uØ	800m	10 Ø	150mØ	1.0k△	2.6			P-PL	Si	200J	TO39	KCØ
5	2N1683	80.0M	410n▼				150m	500mØ	40m	85 †		8.0p		P-ME	Ge	85	TO5	A
6	2N3713	4.00M§△	450nt		300nt	400nt	150 Ø	2.0 Ø	1 Ø	25 △				N	Si	200J	TO3	CØ
7	2N3714	4.00M§△	450nt		300nt	400nt	150 Ø	2.0 Ø	1 Ø	25 △				N	Si	200J	TO3	CØ
8	2N3715	4.00M§△	450nt		300nt	400nt	150 Ø	2.0 Ø	1 Ø	50 △				N	Si	200J	TO3	CØ
9	2N3716	4.00M§△	450nt		300nt	400nt	150 Ø	2.0 Ø	1 Ø	50 △				N	Si	200J	TO3	CØ
10	2N1284	5.0M△	450n	180n	900n	350n	150m	1 0 Ø	10mØ	30 △	20	20pØ		P-A	Ge	85J	TO5	A
11#	NKT734	5.00M	450n		500n	600n	150m	.35 Ø	2 Ø	15 △	20	20pØ		N	Ge	85J	TO5	A
12▼	SDT14304	7.0M§△	450nØ		2.5u	450n	220 Ø	5.0 Ø	5 0 Ø	15 △	70m			N-PL	Si	200J	TO3	C
13▼	SDT14305	7 0M§△	450nØ		2.5u	450n	220 Ø	5.0 Ø	5.0 Ø	15 △	70m			N-PL	Si	200J	TO3	C
14#	2S033	25.0M§	450nØ	2.0u	2.0uØ	1.0u	4.0	10 Ø	3.0uØ	10 #		120pØ	10n	N-DM	Si	175	TO3	
15#	2S034	25.0M§	450nØ	2.0u	2.0uØ	1.0u	4 0	10 Ø	3 0uØ	25 #		120pØ	10n	N-DM	Si	175	TO3	
16#	2S035	25.0M§	450nØ	2.0u	2.0uØ	1.0u	4.0	10 Ø	3.0uØ	10 #		120pØ	10n	N-DM	Si	175	TO3	
17#	2S036	25.0M§	450nØ	2.0u	2.0uØ	1.0u	4.0	10 Ø	3.0uØ	25 #		120pØ	10n	N-DM	Si	175	TO3	
18	1743-0620	30M§△	450nØ		550n	350n	85 $Ø	2.5 Ø	20 Ø	20 #△		800pØ		N-E	Si	200J	TO3	CØ
19	1743-1020	30M§△	450nØ		550n	350n	85 $Ø	2.5 Ø	20 Ø	20 #△		800pØ		N-E	Si	200J	TO3	CØ
20	1743-1420	30M§△	450nØ		550n	350n	85 $Ø	2.5 Ø	20 Ø	20 #△		800pØ		N-E	Si	200J	TO3	CØ
21	1763-0620	30M§△	450nØ		550n	350n	85 Ø$	2.5 Ø	20 Ø	20 △#		800pØ		N-E	Si	200J	TO3	CØ
22	1763-0820	30M§△	450nØ		550n	350n	85 Ø$	2.5 Ø	20 Ø	20 △#		800pØ		N-E	Si	200J	TO3	CØ
23	1763-1020	30M§△	450nØ		550n	350n	85 Ø$	2.5 Ø	20 Ø	20 △#		800pØ		N-E	Si	200J	TO3	CØ
24	1763-1220	30M§△	450nØ		550n	350n	85 Ø$	2.5 Ø	20 Ø	20 △#		800pØ		N-E	Si	200J	TO3	CØ
25	1763-1420	30M§△	450nØ		550n	350n	85 Ø$	2 5 Ø	20 Ø	20 △#		800pØ		N-E	Si	200J	TO3	CØ
26	1763-1620	30M§△	450nØ		550n	350n	85 Ø$	2.5 Ø	20 Ø	20 △#		800pØ		N-E	Si	200J	TO3	CØ
27	1763-1820	30M§△	450nØ		550n	350n	85 Ø$	2.5 Ø	20 Ø	20 △#		800pØ		N-E	Si	200J	TO3	CØ
28	1768-0620	30M§△	450nØ		550n	350n	100 Ø$	2.5 Ø	20 Ø	20 △#		800pØ		N-E	Si	200J	TO63	A
29	1768-0820	30M§△	450nØ		550n	350n	100 Ø$	2 5 Ø	20 Ø	20 △#		800pØ		N-E	Si	200J	TO63	A
30	1768-1020	30M§△	450nØ		550n	350n	100nØ$	2.5 Ø	20 Ø	20 △#		800pØ		N-E	Si	200J	TO63	A
31	1768-1220	30M§△	450nØ		550n	350n	100 Ø$	2.5 Ø	20	20 △#		800pØ		N-E	Si	200J	TO63	A
32	1768-1420	30M§△	450nØ		550n	350n	100 Ø$	2.5 Ø	20	20 △#		800pØ		N-E	Si	200J	TO63	A
33	1768-1620	30M§△	450nØ		550n	350n	100 Ø$	2.5 Ø	20	20 △#		800pØ		N-E	Si	200J	TO63	A
34	1768-1820	30M§△	450nØ		550n	350n	100 Ø$	2.5 Ø	20	20 △#		800pØ		N-E	Si	200J	TO63	A
35	UPT1021	50M§	450ntØ			350ntØ	2.5	5.0 Ø	15 Ø	15 △#	100m#	50pØ		N-PL	Si	200J	TO66	CØ
36	UPT1022	50M§	450ntØ			350ntØ	2 5	5 0 Ø	15 Ø	15 △#	100m#	50pØ		N-PL	Si	200J	TO66	CØ
37	UPT1023	50M§	450ntØ			350ntØ	2.5	5.0 Ø	15 Ø	15 △#	100m#	50pØ		N-PL	Si	200J	TO66	CØ
38	UPT1024	50M§	450ntØ			350ntØ	2 5	5.0 Ø	15 Ø	15 △#	100m#	50pØ		N-PL	Si	200J	TO66	CØ
39	UPT1025	50M§	450ntØ			350ntØ	2.5	5.0 Ø	15 Ø	15 △#	100m#	50pØ		N-PL	Si	200J	TO66	CØ
40	UPT1031	50M§	450ntØ			350ntØ	3 5	5.0 Ø	15 Ø	15 △#	133m#	50pØ		N-PL	Si	200J	TO3	CØ
41	UPT1032	50M§	450ntØ			350ntØ	3.5	5.0 Ø	15 Ø	15 △#	133m#	50pØ		N-PL	Si	200J	TO3	CØ
42	UPT1033	50M§	450ntØ			350ntØ	3.5	5.0 Ø	15 Ø	15 △#	133m#	50pØ		N-PL	Si	200J	TO3	CØ
43	UPT1034	50M§	450ntØ			350ntØ	3.5	5.0 Ø	15 Ø	15 △#	133m#	50pØ		N-PL	Si	200J	TO3	CØ
44	UPT1035	50M§	450ntØ			350ntØ	3.5	5.0 Ø	15 Ø	15 △#	133m#	50pØ		N-PL	Si	200J	TO3	CØ
45	2N1042	250k§△	480nt	200nt	290nt	2.1ut	1.1	1.0 Ø	3.0	60 Ø	250m	100p		P-A	Ge	100S	T28	
46	2N1043	250k§△	480nt	200nt	290nt	2.1ut	1.1	1.0 Ø	3 0	60 Ø	250m	100p		P-A	Ge	100S	T28	
47	2N1044	250k§△	480nt	200nt	290nt	2.1ut	1.1	1.0 Ø	3.0	60 Ø	250m	100p		P-A	Ge	100S	T28	
48	2N1045	250k§△	480nt	200nt	290nt	2.1ut	1.1	1.0 Ø	3 0	60 Ø	250m	100p		P-A	Ge	100S	T28	
49#	ASY26-RT	4.0M§△	490n	90n	1.3u	730n	150m	1.0 Ø	10mØ	45	20	16p$Ø		P-A	Ge	85J	TO5	A§
50	2N545		500n			800nØ	5 $Ø	6 0 Ø	500mØ	80 Ø	10	100pØ		N	Si	200S	TO5	AØ
51	JAN2N545		500n			500nØ	600m$	6.0 Ø	500mØ	15 △	10	100pØ		N	Si	175S	TO5	Ø
52	2N546		500n			800nØ	5.0 $Ø	6.0 Ø	500mØ	80 Ø	6.0	100pØ		N	Si	200S	TO5	AØ
53	2N672		500n		400n	600n	300m							P	Ge	85J	R2	AØ
54	2N673		500n		400n	600n	1.0 Ø							PA	Ge	85J	TO26	AØ
55	JAN2N1173		500nØ			2.0uØ	250m	1 0 Ø	10m	200 Ø	7.5	25pØ		N	Ge	100S	TO29	A
56	JAN2N1174		500nØ			2.0uØ	250m	1.0 Ø	10m	200 Ø	7.5	25pØ		P	Ge	100S	TO29	A
57#	2SC1485		500nt		3.0ut	1 0ut	350m	4.0 Ø	10mØ	90	20			N-DM	Si	175J	TO18	AØ
58#	2SC1610		500nØ		1.5u	2.0uØ	100 Ø	5.0 Ø	5.0 Ø	30 △				N-EM	Si	175J	TO3	CØ
59♦#	2SC1672		500nØ		1.5u	2.0uØ	120 Ø	2.0 Ø	13 Ø	20 △	77m			N-EM	Si	175J	TO3	CØ
60#	2SC1879H		500nØt			4.2uØt	8.0 Ø	2.0 Ø	2.0 Ø	1.0k△	750m			N-E	Si	175J	TO39	KCØ
61#	2SD560		500nØt		2.0uØt		1.5	2.0 Ø	5.0 Ø	500 △#	400m▼#			NE	Si	150J	Y220b	DØ
62	GT8000		500n		3.0u	1.0u	90 Ø	5.0 Ø	10 Ø	50	200m			N		150J	TO3	CØ
63	GT8001		500n		3.0u	1.0u	90 Ø	5.0 Ø	10 Ø	50	200m			N		150J	TO3	CØ
64	GT8002		500n		3 0u	1 0u	90 Ø	5.0 Ø	10 Ø	50	200m			N		150J	TO3	CØ
65	IDI8000		500n		3.0u	1.0u	90 Ø	5.0 Ø	10 Ø	50 △	200m			N		150J	TO3	CØ
66	IDI8001		500n		3 0u	1.0u	90 Ø	5.0 Ø	10 Ø	50 △	200m			N		150J	TO3	CØ
67	IDI8002		500n		3 0u	1.0u	90 Ø	5.0 Ø	10 Ø	50 △	200m			N		150J	TO3	CØ
68	MJ10000		500n	200n	3.0u	1.8u	175 Ø	5.0 Ø	10 Ø	40 △	150m	325pØ		N	Si	200J	TO3	KF
69	MJ10001		500n	200n	3 0u	1 8u	175 Ø	5 0 Ø	10 Ø	40 △	150m	325pØ		N	Si	200J	TO3	KF
70	MJ10002		500n	100n	2.5u	1 0u	150 Ø	5.0 Ø	5 0 Ø	30 △	290m	275pØ		N	Si	200J	TO3	KF
71	MJ10003		500n	100n	2.5u	1.0u	150 Ø	5.0 Ø	5.0 Ø	30 △	290m	275pØ		N	Si	200J	TO3	KF
72	MJ10004		500n	200n	1.2u	350n	175 Ø	5.0 Ø	10 Ø	40 △	150m	325pØ		N	Si	200J	TO3	KF
73	MJ10005		500n	200n	1.2u	350n	175 Ø	5.0 Ø	10 Ø	40 △	150m	325pØ		N	Si	200J	TO3	KF
74	MJ10006		500n	100n	1.1u	250n	150 Ø	5.0 Ø	5.0 Ø	30 △	290m	275pØ		N	Si	200J	TO3	KF
75	MJ10007		500n	100n	1.1u	250n	150 Ø	5.0 Ø	5.0 Ø	30 △	290m	275pØ		N	Si	200J	TO3	KF
76	TIP562		500nt	50nt	1 2ut	300nt	100 Ø$	4.0 Ø	10 Ø	8.0 △#	120m#			N	Si	200J	TO3	CØ
77	TIP563		500nt	50nt	1 2ut	300nt	100 Ø$	4.0 Ø	10 Ø	8.0 △#	120m#			N	Si	200J	TO3	CØ
78	MJE33	2.0M§△	500nØ			1.0uØ	80 Ø	4.0 Ø	1.0 Ø	40 △	333m			N	Si	150J	B16h	D
79	MJE33A	2.0M§△	500nØ			1.0uØ	80 Ø	4 0 Ø	1.0 Ø	40 △	333m			N	Si	150J	B16h	D
80	MJE33B	2.0M§△	500nØ			1.0uØ	80 Ø	4.0 Ø	1 0 Ø	40 △	333m			N	Si	150J	B16h	D
81	MJE33C	2.0M§△	500nØ			1.0uØ	80 Ø	4.0 Ø	1.0 Ø	40 △	333m			N	Si	150J	B16h	D
82	MJE34	2.0M§△	500nØ			1.0uØ	80 Ø	4.0 Ø	1.0 Ø	40 △	333m			P	Si	150J	B16h	D
83	MJE34A	2.0M§△	500nØ			1.0uØ	80 Ø	4.0 Ø	1.0 Ø	40 △	333m			P	Si	150J	B16h	D
84	MJE34B	2.0M§△	500nØ			1.0uØ	80 Ø	4.0 Ø	1.0 Ø	40 △	333m			P	Si	150J	B16h	D
85	MJE34C	2.0M§△	500nØ			1.0uØ	80 Ø	4.0 Ø	1.0 Ø	40 △	333m			P	Si	150J	B16h	D
86	MJE41	2.0M§△	500nØ			1.0uØ	65 Ø	4.0 Ø	300mØ	30 △	250m			N	Si	150J	B16h	D
87	MJE41A	2.0M§△	500nØ			1.0uØ	65 Ø	4.0 Ø	300mØ	30 △	250m			N	Si	150J	B16h	D
88	MJE41B	2.0M§△	500nØ			1.0uØ	65 Ø	4.0 Ø	300mØ	30 △	250m			N	Si	150J	B16h	D
89	MJE41C	2.0M§△	500nØ			1.0uØ	65 Ø	4 0 Ø	300mØ	30 △	250m			N	Si	150J	B16h	D
90	MJE42	2.0M§△	500nØ			1.0uØ	65 Ø	4.0 Ø	300mØ	30 △	250m			P	Si	150J	B16h	D
91	MJE42A	2.0M§△	500nØ			1.0uØ	65 Ø	4.0 Ø	300mØ	30 △	250m			P	Si	150J	B16h	D
92	MJE42B	2.0M§△	500nØ			1 0uØ	65 Ø	4.0 Ø	300mØ	30 △	250m			P	Si	150J	B16h	D
93	MJE42C	2.0M§△	500nØ			1.0uØ	65 Ø	4 0 Ø	300mØ	30 △	250m			P	Si	150J	B16h	D
94	MJE51	2.5M§△	500nØt			2.0uØt	80 Ø	10 Ø	5.0 Ø	5.0 △	400m	150pØ		N	Si	150J	B16h	D
95	MJE52	2 5M§△	500nØt			2.0uØt	80 Ø	10 Ø	5.0 Ø	5 0 △	400m	150pØ		N	Si	150J	B16h	D
96	MJE53	2.5M§△	500nØt			2.0uØt	80 Ø	10 Ø	5.0 Ø	5.0 △	400m	150pØ		N	Si	150J	B16h	D
97	MJE29	3.0M§△	500nØt			1.0uØt	30 Ø	4.0 Ø	200mØ	40 △	700m			N	Si	150J	B16f	D
98	MJE29A	3.0M§△	500nØt			1.0uØt	30 Ø	4.0 Ø	200mØ	40 △	700m			N	Si	150J	B16f	D
99	MJE29B	3.0M§△	500nØt			1.0uØt	30 Ø	4 0 Ø	200mØ	40 △	700m			N	Si	150J	B16f	D
100	MJE29C	3.0M§△	500nØt			1.0uØt	30 Ø	4 0 Ø	200mØ	40 △	700m			N	Si	150J	B16f	D
101	MJE30	3 0M§△	500nØt			1.0uØt	30 Ø	4 0 Ø	200mØ	40 △	700m			P	Si	150J	B16f	D
102	MJE30A	3.0M§△	500nØt			1.0uØt	30 Ø	4.0 Ø	200mØ	40 △	700m			P	Si	150J	B16f	D
103	MJE30B	3 0M§△	500nØt			1.0uØt	30 Ø	4.0 Ø	200mØ	40 △	700m			P	Si	150J	B16f	D
104	MJE30C	3.0M§△	500nØt			1.0uØt	30 Ø	4.0 Ø	200mØ	40 △	700m			P	Si	150J	B16f	D
105	MJE31	3.0M§△	500nØt			1.0uØt	40 Ø	4 0 Ø	3.0 Ø	10 △	400m			N	Si	150J	B16f	D
106	MJE31A	3.0M§△	500nØt			1.0uØt	40 Ø	4 0 Ø	3.0 Ø	10 △	400m			N	Si	150J	B16f	D
107	MJE31B	3.0M§△	500nØt			1.0uØt	40 Ø	4.0 Ø	3.0 Ø	10 △	400m			N	Si	150J	B16f	D
108	MJE31C	3.0M§△	500nØt			1.0uØt	40 Ø	4 0 Ø	3.0 Ø	10 △	400m			N	Si	150J	B16f	D
109	MJE32	3.0M§△	500nØt			1.0uØt	40 Ø	4.0 Ø	3.0 Ø	10 △	400m			P	Si	150J	B16f	D
110	MJE32A	3.0M§△	500nØt			1.0uØt	40 Ø	4.0 Ø	3.0 Ø	10 △	400m			P	Si	150J	B16f	D

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	M A T	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	1843-2020	25M§Δ	500nØt		1.5ut	1 0ut	85 Ø§	5.0 Ø	20 Ø	10 #Δ	87m#	600pØ		N-EM	Si	200J	TO3	CØ
2	1843-2205	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5.0 Ø	5.0 Ø	20 #Δ	200m#	600pØ		N-EM	Si	200J	TO3	CØ
3	1843-2210	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5.0 Ø	10 Ø	15 #Δ	125m#	600pØ		N-EM	Si	200J	TO3	CØ
4	1843-2220	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5.0 Ø	20 Ø	10 #Δ	87m#	600pØ		N-EM	Si	200J	TO3	CØ
5	1843-2505	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5.0 Ø	5.0 Ø	20 #Δ	200m#	600pØ		N-EM	Si	200J	TO3	CØ
6	1843-2510	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5 0 Ø	10 Ø	15 #Δ	125m#	600pØ		N-EM	Si	200J	TO3	CØ
7	1843-2520	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5.0 Ø	20 Ø	10 #Δ	87m#	600pØ		N-EM	Si	200J	TO3	CØ
8	1843-2705	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5.0 Ø	5.0 Ø	20 #Δ	200m#	600pØ		N-EM	Si	200J	TO3	CØ
9	1843-2710	25M§Δ	500nØt		1.5ut	1 0ut	85 Ø§	5.0 Ø	10 Ø	15 #Δ	125m#	600pØ		N-EM	Si	200J	TO3	CØ
10	1843-2720	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5 0 Ø	20 Ø	10 #Δ	87m#	600pØ		N-EM	Si	200J	TO3	CØ
11	1843-3005	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5 0 Ø	5.0 Ø	20 #Δ	200m#	600pØ		N-EM	Si	200J	TO3	CØ
12	1843-3010	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5.0 Ø	10 Ø	15 #Δ	125m#	600pØ		N-EM	Si	200J	TO3	CØ
13	1843-3020	25M§Δ	500nØt		1.5ut	1 0ut	85 Ø§	5.0 Ø	20 Ø	10 #Δ	87m#	600pØ		N-EM	Si	200J	TO3	CØ
14	1843-3205	25M§Δ	500nØt		1.5ut	1 0ut	85 Ø§	5.0 Ø	5.0 Ø	20 #Δ	200m#	600pØ		N-EM	Si	200J	TO3	CØ
15	1843-3210	25M§Δ	500nØt		1.5ut	1 0ut	85 Ø§	5.0 Ø	10 Ø	15 #Δ	125m#	600pØ		N-EM	Si	200J	TO3	CØ
16	1843-3220	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5.0 Ø	20 Ø	10 #Δ	87m#	600pØ		N-EM	Si	200J	TO3	CØ
17	1843-3505	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5.0 Ø	5.0 Ø	20 #Δ	200m#	600pØ		N-EM	Si	200J	TO3	CØ
18	1843-3510	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5.0 Ø	10 Ø	15 #Δ	125m#	600pØ		N-EM	Si	200J	TO3	CØ
19	1843-3520	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5.0 Ø	20 Ø	10 #Δ	87m#	600pØ		N-EM	Si	200J	TO3	CØ
20	1843-3705	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5.0 Ø	5.0 Ø	20 #Δ	200m#	600pØ		N-EM	Si	200J	TO3	CØ
21	1843-3710	25M§Δ	500nØt		1.5ut	1.0ut	85 Ø§	5.0 Ø	10 Ø	15 #Δ	125m#	600pØ		N-EM	Si	200J	TO3	CØ
22	1843-3720	25M§Δ	500nØt		1.5ut	1 0ut	85 Ø§	5.0 Ø	20 Ø	10 #Δ		600pØ		N-EM	Si	200J	TO3	CØ
23	2N5312	30.0M§Δ	500n		750n	500n	50 Ø	5.0 Ø	20 Ø	5 0 #Δ		500pØ		P	Si	200J	TO61	A
24	2N5313	30.0M§Δ	500n		1.0u	500n	50 Ø	5.0 Ø	20 Ø	5.0 #Δ		500pØ		P	Si	200J	TO61	AØ
25	2N5314	30.0M§Δ	500n		750n	500n	50 Ø	5.0 Ø	20 Ø	5.0 #Δ		500pØ		P	Si	200J	TO61	A
26	2N5315	30.0M§Δ	500n		1.0u	500n	50 Ø	5.0 Ø	20 Ø	5.0 #Δ		500pØ		P	Si	200J	TO61	AØ
27	2N5929	30M§Ø	500n		500n	300m	100 Ø$	4.0 Ø	30 Ø	8.0 Δ#				N	Si	200J	F4f	CØ
28	2N5930	30M§Ø	500n		500n	300n	100 Ø$	4.0 Ø	30 Ø	8.0 Δ#				N	Si	200J	F4f	CØ
29	2N5931	30M§Δ	500n		500n	300n	100 $Ø	4.0 Ø	30 Ø	8.0 Δ#				N	Si	200J	F4f	CØ
30	JAN2N6378	30M§Δ	500nØ			1.0uØ	143 Ø$	4.0 Ø	50 Ø	10 Δ	60m#	1.5nØ			Si	200J	TO3	CØ
31	JAN2N6379	30M§Δ	500nØ			1 0uØ	143 Ø$	4.0 Ø	50 Ø	10 Δ	60m#	1.5nØ			Si	200J	TO3	CØ
32	1743-0610	30M§Δ	500n		500n	300n	100 Ø$	4.0 Ø	30 Ø	8 0 Δ#	100m#	800pØ		N-E	Si	200A	TO3	CØ
33	1743-0830	30M§Δ	500nØ		600n	400n	85 $Ø	3.0 Ø	30 Ø	20 #Δ		800pØ		N-E	Si	200J	TO3	CØ
34	1743-1010	30M§Δ	500n		500n	300n	100 Ø$	4.0 Ø	30 Ø	8.0 Δ#	100m#	800pØ		N-E	Si	200A	TO3	CØ
35	1743-1230	30M§Δ	500nØ		600n	400n	85 $Ø	3.0 Ø	30 Ø	20 #Δ		800pØ		N-E	Si	200J	TO3	CØ
36	1743-1410	30M§Δ	500n		500n	300n	100 Ø$	4.0 Ø	30 Ø	8.0 Δ#	100m#	800pØ		N-E	Si	200A	TO3	CØ
37	1743-1630	30M§Δ	500nØ		600n	400n	150 Ø	3.0 Ø	30 Ø	20 Δ#		800pØ		N-EM	Si	200J	TO3	CØ
38	1743-1810	30M§Δ	500n		500n	300n	100 Ø$	4.0 Ø	30 Ø	8.0 Δ#	100m#	800pØ		N-E	Si	200A	TO3	CØ
39	1748-0630	30M§Δ	500nØ		600n	400n	100 $Ø	3.0 Ø	30 Ø	20 #Δ		800pØ		N-E	Si	200J	TO63	A
40	1748-0830	30M§Δ	500nØ		600n	400n	100 $Ø	3.0 Ø	30 Ø	20 #Δ		800pØ		N-E	Si	200J	TO63	A
41	1748-1030	30M§Δ	500nØ		600n	400n	100 $Ø	3.0 Ø	30 Ø	20 #Δ		800pØ		N-E	Si	200J	TO63	A
42	1748-1230	30M§Δ	500nØ		600n	400n	100 $Ø	3.0 Ø	30 Ø	20 #Δ		800pØ		N-E	Si	200J	TO63	A
43	1748-1430	30M§Δ	500nØ		600n	400n	100 $Ø	3.0 Ø	30 Ø	20 #Δ		800pØ		N-E	Si	200J	TO63	A
44	1748-1630	30M§Δ	500nØ		600n	400n	175 Ø	3.0 Ø	30 Ø	20 Δ#		800pØ		N-EM	Si	200J	TO63	A
45	1748-1830	30M§Δ	500nØ		600n	400n	175 Ø	3.0 Ø	30 Ø	20 Δ#		800pØ		N-EM	Si	200J	TO63	A
46	1763-0630	30M§Δ	500nØ		600n	400n	85 Ø$	3.0 Ø	30 Ø	20 Δ#		800pØ		N-E	Si	200J	TO3	CØ
47	1763-0830	30M§Δ	500nØ		600n	400n	85 Ø$	3.0 Ø	30 Ø	20 Δ#		800pØ		N-E	Si	200J	TO3	CØ
48	1763-1030	30M§Δ	500nØ		600n	400n	85 Ø$	3.0 Ø	30 Ø	20 Δ#		800pØ		N-E	Si	200J	TO3	CØ
49	1763-1230	30M§Δ	500nØ		600n	400n	85 Ø$	3.0 Ø	30 Ø	20 Δ#		800pØ		N-E	Si	200J	TO3	CØ
50	1763-1430	30M§Δ	500nØ		600n	400n	85 Ø$	3.0 Ø	30 Ø	20 Δ#		800pØ		N-E	Si	200J	TO3	CØ
51	1768-0630	30M§Δ	500nØ		600n	400n	100 Ø$	3.0 Ø	30 Ø	20 Δ#		800pØ		N-E	Si	200J	TO63	A
52	1768-0830	30M§Δ	500nØ		600n	400n	100 Ø$	3.0 Ø	30 Ø	20 Δ#		800pØ		N-E	Si	200J	TO63	A
53	1768-1030	30M§Δ	500nØ		600n	400n	100nØ$	3.0 Ø	30 Ø	20 Δ#		800pØ		N-E	Si	200J	TO63	A
54	1768-1230	30M§Δ	500nØ		600n	400n	100 Ø$	3.0 Ø	30	20 Δ#		800pØ		N-E	Si	200J	TO63	A
55	1768-1430	30M§Δ	500nØ		600n	400n	100 Ø$	3.0 Ø	30	20 Δ#		800pØ		N-E	Si	200J	TO63	A
56	1814-2005	30M§Δ	500n		700n	400n	44 Ø	4.0 Ø	5.0 Ø	20 Δ#	150m#	250pØ		N-E	Si	150J	TO66	CØ
57	1814-2205	30M§Δ	500n		700n	400n	44 Ø	4.0 Ø	5.0 Ø	20 Δ#	150m#	250pØ		N-E	Si	150J	TO66	CØ
58	1814-2505	30M§Δ	500n		700n	400n	44 Ø	4.0 Ø	5.0 Ø	20 Δ#	150m#	250pØ		N-E	Si	150J	TO66	CØ
59	1814-2705	30M§Δ	500n		700n	400n	44 Ø	4.0 Ø	5.0 Ø	20 Δ#	150m#	250pØ		N-E	Si	150J	TO66	CØ
60	1814-3005	30M§Δ	500n		700n	400n	44 Ø	4.0 Ø	5.0 Ø	20 Δ#	150m#	250pØ		N-E	Si	150J	TO66	CØ
61	1814-3205	30M§Δ	500n		700n	400n	44 Ø	4.0 Ø	5.0 Ø	20 Δ#	150m#	250pØ		N-E	Si	150J	TO66	CØ
62	SDT3101	30.0M§Δ	500n		750n	500n	3.0 Ø	5.0 Ø	10uØ	90 Ø#		500pØ		P-PE	Si	200J	TO61	A
63	SDT3102	30.0M§Δ	500n		750n	500n	3.0 Ø	5.0 Ø	10uØ	90 Ø#		500pØ		P-PE	Si	200J	TO61	A
64	SDT3103	30.0M§Δ	500n		750n	500n	3.0 Ø	5.0 Ø	10uØ	90 Ø#		500pØ		P-PE	Si	200J	TO61	A
65	SDT3104	30.0M§Δ	500n		750n	500n	3.0 Ø	5.0 Ø	10uØ	90 Ø#		500pØ		P-PE	Si	200J	TO61	A
66	SDT3201	30 0M§Δ	500n		1.0u	500n	3.0 Ø	5.0 Ø	10uØ	90 Ø#		500pØ		N-PE	Si	200J	TO61	A
67	SDT3202	30.0M§Δ	500n		1.0u	500n	3.0 Ø	5.0 Ø	10uØ	90 Ø#		500pØ		N-PE	Si	200J	TO61	A
68	SDT3203	30 0M§Δ	500n		1.0u	500n	3 Ø	5.0 Ø	.01mØ	90 #Ø		500pØ		N-PE S	i	200J	TO61	A
69	SDT3204	30.0M§Δ	500n		1.0u	500n	3 Ø	5.0 Ø	.01mØ	90 #Ø		500pØ		N-PE S	i	200J	TO61	A
70	ST74049	30M§Δ	500nØ			1 0uØ	7 5 Ø$	10 Ø	500mØ	40 Δ#		60pØ		N-PL	Si	200J	TO5	
71	ST74050	30M§Δ	500nØ			1.0uØ	7.5 Ø$	10 Ø	500mØ	40 Δ#		60pØ		N-PL	Si	200J	TO5	
72	ST74051	30M§Δ	500nØ			1.0uØ	7 5 Ø$	10 Ø	500mØ	40 Δ#		60pØ		N-PL	Si	200J	TO5	
73	UPT931	30M§	500nтØ			1.2utØ	3.5	5.0 Ø	10 Ø	10 Δ#	150m#	50pØ		N-PL	Si	200J	TO3	CØ
74	UPT932	30M§	500nтØ			1.2utØ	3.5	5.0 Ø	10 Ø	10 Δ#	150m#	50pØ		N-PL	Si	200J	TO3	CØ
75	UPT933	30M§	500nтØ			1.2utØ	3.5	5.0 Ø	10 Ø	10 Δ#	150m#	50pØ		N-PL	Si	200J	TO3	CØ
76	UPT934	30M§	500nтØ			1.2utØ	3.5	5.0 Ø	10 Ø	10 Δ#	150m#	50pØ		N-PL	Si	200J	TO3	CØ
77	UPT935	30M§	500nØt			1 2uØt	100 Ø$	5.0 Ø	15 Ø	10	150m	50pØ		N-PL	Si	200J	TO3	CØ
78	UPT1131	30M§	500nтØ			1.2utØ	3.5	5.0 Ø	20 Ø	15 Δ#	75m#	50pØ		N-PL	Si	200J	TO3	CØ
79	UPT1132	30M§	500nтØ			1.2utØ	3.5	5.0 Ø	20 Ø	15 Δ#	75m#	50pØ		N-PL	Si	200J	TO3	CØ
80	UPT1133	30M§	500nтØ			1.2utØ	3.5	5.0 Ø	20 Ø	15 Δ#	75m#	50pØ		N-PL	Si	200J	TO3	CØ
81	UPT1134	30M§	500nтØ			1.2utØ	3.5	5.0 Ø	20 Ø	15 Δ#	75m#	50pØ		N-PL	Si	200J	TO3	CØ
82	UPT1135	30M§	500nтØ			1.2utØ	3.5	5.0 Ø	20 Ø	15 Δ#	75m#	50pØ		N-PL	Si	200J	TO3	CØ
83	2N5404	40M§Δ	500n		750n	200n	5.0 Ø$	5.0 Ø	5.0 Ø	5.0 Δ	1.0	150pØ		P	Si	200J	TO5	AØ
84	2N5405	40M§Δ	500n		750n	200n	5.0 Ø$	5.0 Ø	5.0 Ø	5.0 Δ	1.0	150pØ		P	Si	200J	TO5	AØ
85	2N5406	40M§Δ	500n		1.0u	300n	5.0 Ø$	5.0 Ø	5.0 Ø	10 Δ	800m	150pØ		P	Si	200J	TO5	AØ
86	2N5407	40M§Δ	500n		1.0u	300n	5.0 Ø$	5.0 Ø	5.0 Ø	10 Δ	800m	150pØ		P	Si	200J	TO5	AØ
87	2N5408	40M§Δ	500n		750n	200n	30 Ø$	5.0 Ø	5.0 Ø	5.0 Δ	1.0	150pØ		P	Si	200J	TO111	A
88	2N5409	40M§Δ	500n		750n	200n	30 Ø$	5.0 Ø	5.0 Ø	5.0 Δ	1.0	150pØ		P	Si	200J	TO111	A
89	2N5410	40M§Δ	500n		1.0u	300n	30 Ø$	5.0 Ø	5.0 Ø	10 Δ	800m	150pØ		P	Si	200J	TO111	A
90	2N5411	40M§Δ	500n		1.0u	300n	30 Ø$	5.0 Ø	5.0 Ø	10 Δ	800m	150pØ		P	Si	200J	TO111	A
91	SDT3301	40.0M§Δ	500n		1.0u	300n	2.0 Ø	5.0mØ	2.0 Ø	120 Ø#		200p		P-PE	Si	200J	TO111	
92	SDT3302	40.0M§Δ	500n		1.0u	300n	2.0 Ø	5.0mØ	2.0 Ø	120 Ø#		200p		P-PE	Si	200J	TO111	
93	SDT3303	40.0M§Δ	500n		1.0u	300n	2.0 Ø	5.0mØ	2.0 Ø	120 Ø#		200p		P-PE	Si	200J	TO111	
94	SDT3304	40.0M§Δ	500n		1.0u	300n	2.0 Ø	5.0mØ	2.0 Ø	120 Ø#		200p		P-PE	Si	200J	TO111	
95	SDT3305	40.0M§Δ	500n		750n	200n	2.0 Ø	5.0mØ	2.0 Ø	60 Ø#		200p		P-PE	Si	200J	TO111	
96	SDT3306	40.0M§Δ	500n		750n	200n	2.0 Ø	5.0mØ	2.0 Ø	60 Ø#		200p		P-PE	Si	200J	TO111	
97	SDT3307	40.0M§Δ	500n		750n	200n	2.0 Ø	5.0 Ø	2.0 Ø	60 Ø#		200p		P-PE	Si	200J	TO111	
98	SDT3308	40.0M§Δ	500n		750n	200n	2.0 Ø	5 0 Ø	2.0 Ø	60 Ø#		200p		P-PE	Si	200J	TO111	
99	SDT3309	40.0M§Δ	500n		750n	200n	2 0 Ø	5.0 Ø	2.0 Ø	60 Ø#		200p		P-PE	Si	200J	TO111	
100	SDT3401	40.0M§Δ	500n		1.5u	300n	2.0 Ø	5 0 Ø	2.0 Ø	120 Δ#		200p		N-PE	Si	200J	TO111	
101	SDT3402	40.0M§Δ	500n		1 5u	300n	2.0 Ø	5.0 Ø	2.0 Ø	120 Δ#		200p		N-PE	Si	200J	TO111	
102	SDT3403	40.0M§Δ	500n		1.5u	300n	2.0 Ø	5.0 Ø	2.0 Ø	120 Δ#		200p		N-PE	Si	200J	TO111	
103	SDT3404	40.0M§Δ	500n		1 5u	300n	2.0 Ø	5 0 Ø	2 0 Ø	120 Δ#		200p		N-PE	Si	200J	TO111	
104	SDT3405	40.0M§Δ	500n		1.0u	300n	2.0 Ø	5.0 Ø	2.0 Ø	60 Δ#		200p		N-PE	Si	200J	TO111	
105	SDT3406	40.0M§Δ	500n		1.0u	300n	2.0 Ø	5 0 Ø	2.0 Ø	60 Δ#		200p		N-PE	Si	200J	TO111	
106	SDT3407	40.0M§Δ	500n		1.0u	300n	2.0 Ø	5 0 Ø	2.0 Ø	60 Δ#		200p		N-PE	Si	200J	TO111	
107	SDT3408	40.0M§Δ	500n		1.0u	300n	2.0 Ø	5.0 Ø	2.0 Ø	60 Δ#		200p		N-PE	Si	200J	TO111	
108	SDT3409	40.0M§Δ	500n		1.0u	300n	2.0 Ø	5 0 Ø	2.0 Ø	60 Δ#		200p		N-PE	Si	200J	TO111	
109	SSP3300	40M§Δ	500nØ			2.0uØ	100 Ø$	5.0 Ø	2.0 Ø	40 Δ	75m	500pØ		N-PL	Si	200J	TO63	
110	SSP3301	40M§Δ	500nØ			2.0uØ	100 Ø$	5 0 Ø	10 Ø	40 Δ	75m	500pØ		N-PL	Si	200J	TO63	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG
1▼	TIP41C☑	3.0M§△	600nt∅			1.4ut∅	65 ∅	10 ∅	500m∅	20 t△	333m#			N-Et	Si	150J	Y220b	X∅
2	2N1353	3.50M	600nt	230nt	400nt	350nt	200m	1.0 ∅	10m	70	40	12p	150nt	P-A	Ge	85J	TO5	A
3	2N5970	4.0M§△	600n		1.4u	500n	85 $	1.5 ∅	10 ∅	20 △#				N	Si	200J	TO3	C∅
4	2N5971	4.0M§△	600n		1.4u	500n	85 $	1.5 ∅	1.0 ∅	50 △#				N	Si	200J	TO3	C∅
5	2N5972	4.0M§△	600n		1.4u	500n	85 $	1.5 ∅	1.0 ∅	30 △#				N	Si	200J	TO3	C∅
6	2N5973	4.0M§△	600n		1.4u	600n	85 $	1.5 ∅	1.0 ∅	30 △#				N	Si	200J	TO3	C∅
7	2N6306	5.0M§△	600n		1.6u	400n	125 ∅	5.0 ∅	8.0 ∅	4.0 △#		250p☑		N	Si	200J	TO3	C∅
8	2N6307	5.0M§△	600n		1.6u	400n	125 ∅	5.0 ∅	8.0 ∅	4.0 △#		250p☑		N	Si	200J	TO3	C∅
9	2N6308	5.0M§△	600n		1.6u	400n	125 ∅	5.0 ∅	8.0 ∅	3.0 △#		250p☑		N	Si	200J	TO3	C∅
10♦#	RCS579	5.0M§	600n		600n	600n	125	5.0 ∅	3.0 ∅	12 △	625m	250p		N-E	Si	200J	TO3	C∅
11	2N2001	6.0M§△	600n	100n	650n	650n	300m	.50 ∅	500m∅	60 △	20	35p☑		P	Ge	100S	TO5	A
12	2N388	8.00M	600n				150m	.50 ∅	30m	150 †		15p		N-A	Ge	100J	TO5	A§
13	2N815	8.00M	600nt		400nt	400nt	75m	750m∅	200m∅	80		14p		N-FA	Ge	85J	R180	
14	2N816	8.00M	600nt		400nt	400nt	75m	750m∅	200m∅	80		14p		N-FA	Ge	85J	R181	
15	IR5000	8.0M§△	600nt		14ut	3.0ut	125 ∅	5.0 ∅	5.0 ∅	140 △	150m			D	Si	150J	TO3	KF∅
16	IR5001	8.0M§△	600nt		14ut	3.0ut	125 ∅	5.0 ∅	5.0 ∅	140 △	150m			D	Si	150J	TO3	KF∅
17	IR5002	8.0M§△	600nt		14ut	3.0ut	125 ∅	5.0 ∅	5.0 ∅	140 △	150m			D	Si	150J	TO3	KF∅
18	2N1694	9.00M	600n	300n	600n	400n	75m	1.0 ∅	2.0m	25	6.5	2.5p		N	Ge	85J	TO5	A
19	2N1317	10.0M△	600n∅		800n	600n	200m	.25 ∅	1.0m	85		14p	150nt	P-A	Ge	85J	TO5	A
20	2N5048	10.0M§☑	600n		1.5u	600n	100	4.0 ∅	.10m∅	15 △	.20			N	Si	200S	TO61	A∅
21	2N317	20M	600n∅		800n	600n	100m	250m∅	400m∅	30 t△		14p		P-A	Ge	85S	TO5	A
22	2N6211	20M§△	600n		2.5u	600n	20 $∅	2.8 ∅	1.0 ∅	10 △	1.4			P	Si	200J	TO66	C∅
23	2N6212	20M§△	600n		2.5u	600n	20 $∅	3.2 ∅	1.0 ∅	10 △	1.6			P	Si	200J	TO66	C∅
24	2N6213	20M§△	600n		2.5u	600n	20 $∅	4.0 ∅	1.0 ∅	10 △	2.0			P	Si	200J	TO66	C∅
25	1756-0660	20M§△	600n∅		700n	450n	240	3.0 ∅	60 ∅	15		1.6n☑		N-EM	Si	200J	TO63	
26	1756-0860	20M§△	600n∅		700n	450n	240	3.0 ∅	60 ∅	15		1.6n☑		N-EM	Si	200J	TO63	
27	1756-1060	20M§△	600n∅		700n	450n	240	3.0 ∅	60 ∅	15		1.6n☑		N-EM	Si	200J	TO63	
28	1756-1260	20M§△	600n∅		700n	450n	240	3.0 ∅	60 ∅	15		1.6n☑		N-EM	Si	200J	TO63	
29	1756-1460	20M§△	600n∅		700n	450n	240	3.0 ∅	60 ∅	15		1.6n☑		N-EM	Si	200J	TO63	
30	1756-1660	20M§△	600n∅		700n	450n	240	3.0 ∅	60 ∅	15		1.6n☑		N-EM	Si	200J	TO63	
31	1756-1860	20M§△	600n∅		700n	450n	240	3.0 ∅	60 ∅	15		1.6n☑		N-EM	Si	200J	TO63	
32	1776-0460	20M§△	600n∅		700n	450n	150 ∅$	3.0 ∅	60 ∅	15 △#	25m	1.6n☑		N-E	Si	200J	TO63	A
33	1776-0660	20M§△	600n∅		700n	450n	150 ∅$	3.0 ∅	60 ∅	15	25m	1.6n☑		N-EM	Si	200J	TO63	A
34	1776-0860	20M§△	600n∅		700n	450n	150 ∅$	3.0 ∅	60 ∅	15	25m	1.6n☑		N-EM	Si	200J	TO63	A
35	1776-1060	20M§△	600n∅		700n	450n	150 ∅$	3.0 ∅	60 ∅	15	25m	1.6n☑		N-EM	Si	200J	TO63	A
36	1776-1260	20M§△	600n∅		700n	450n	150 ∅$	3.0 ∅	60 ∅	15	25m	1.6n☑		N-EM	Si	200J	TO63	A
37	1776-1460	20M§△	600n∅		700n	450n	150 ∅$	3.0 ∅	60 ∅	15	25m	1.6n☑		N-EM	Si	200J	TO63	A
38	1776-1660	20M§△	600n∅		700n	450n	240	3.0 ∅	60 ∅	15		1.6n☑		N-EM	Si	200J	TO63	A
39	1776-1860	20M§△	600n∅		700n	450n	240	3.0 ∅	60 ∅	15		1.6n☑		N-EM	Si	200J	TO63	A
40#	BUX66	20M§△	600n		2.5u	600n	35 ∅	5.0 ∅	1.0 ∅	10 △#	2.5 #	220p☑		P	Si	200J	TO66	C∅
41#	BUX66A	20M§△	600n		2.5u	600n	35 ∅	5.0 ∅	1.0 ∅	10 △#	2.5 #	220p☑		P	Si	200J	TO66	C∅
42#	BUX66B	20M§△	600n		2.5u	600n	35 ∅	5.0 ∅	1.0 ∅	10 △#	2.5 #	220p☑		P	Si	200J	TO66	C∅
43#	BUX66C	20M§△	600n		2.5u	600n	35 ∅	5.0 ∅	1.0 ∅	10 △#	2.5 #	220p☑		P	Si	200J	TO66	C∅
44#	BUX97	20M§	600n∅t		2.0ut	500nt	60 ∅§	5.0 ∅	1.0 ∅	10 △	1.0			N-PE	Si	175J	TO3	C∅
45#	BUX97A	20M§	600n∅t		2.0ut	500nt	60 ∅§	5.0 ∅	1.0 ∅	10 △	1.0			N-PE	Si	175J	TO3	C∅
46#	BUX97B	20M§	600n∅t		2.0ut	500nt	60 ∅§	5.0 ∅	1.0 ∅	10 △	1.0			N-PE	Si	175J	TO3	C∅
47	2N5932	30M§△	600n		550n	350n	100 ∅$	4.0 ∅	30 ∅	12 △#				N	Si	200J	F4f	C∅
48	2N5933	30M§☑	600n		550n	350n	100 ∅$	4.0 ∅	30 ∅	12 △#				N	Si	200J	F4f	C∅
49	2N5934	30M§☑	600n		550n	350n	100 ∅$	4.0 ∅	30 ∅	12 △#				N	Si	200J	F4f	C∅
50	2N6046	30M§△	600n		550n	350n	114 $	4.0 ∅	30 ∅	12 △#				N	Si	200J	TO63	A∅
51	2N6047	30M§△	600n		550n	350n	114 $	4.0 ∅	30 ∅	12 △#				N	Si	200J	TO63	A∅
52	2N6048	30M§△	600n		550n	350n	114 $	4.0 ∅	30 ∅	12 △#				N	Si	200J	TO63	A∅
53	JAN2N6306	30M§☑	600n∅			3.0u∅	62 ∅$	4.0 ∅	500m∅	5.0 △t	266m#	250p☑		N	Si	175A	TO3	C∅
54	JAN2N6308	30M§☑	600n∅			3.0u∅	62 ∅$	4.0 ∅	500m∅	5.0 △t	500m#	250p☑		N	Si	175A	TO3	C∅
55	1743-0820	30M§△	600n		550n	350n	100 ∅$	4.0 ∅	30 ∅	12 △#	100m#	800p☑		N-E	Si	200A	TO3	C∅
56	1743-1220	30M§△	600n		550n	350n	100 ∅$	4.0 ∅	30 ∅	12 △#	50m#	800p☑		N-E	Si	200A	TO3	C∅
57	1743-1620	30M§△	600n		550n	350n	100 ∅$	4.0 ∅	30 ∅	12 △#	50m#	800p☑		N-E	Si	200A	TO3	C∅
58	1743-1820	30M§△	600n		550n	350n	100 ∅$	4.0 ∅	30 ∅	12 △#	50m#	800p☑		N-E	Si	200A	TO3	C∅
59	1748-0820	30M§△	600n		550n	350n	114 ∅$	4.0 ∅	30 ∅	12 △#	50m#	800p☑		N-E	Si	200A	TO63	A
60	1748-1220	30M§△	600n		550n	350n	114 ∅$	4.0 ∅	30 ∅	12 △#	50m#	800p☑		N-E	Si	200A	TO63	A
61	1748-1620	30M§△	600n		550n	350n	114 ∅$	4.0 ∅	30 ∅	12 △#	50m#	800p☑		N-E	Si	200A	TO63	A
62	1748-1820	30M§△	600n		550n	350n	114 ∅$	4.0 ∅	30 ∅	12 △#	50m#	800p☑		N-E	Si	200A	TO63	A
63	2N5218	40.0M§△	600n	600n∅	4.5u	1.0u	50 ∅	5.0 ∅	.50m	75 △#	.30			N	Si	200C	TO61	A∅
64#	BFX34	70M§△	600n∅			1.2u∅	5.0 ∅	2.0 ∅	2.0 ∅	150 ☑#		100p$☑		P-PE	Si	200J	TO39	A∅
65	SDM3100	70M§	600n∅t			2.5u∅t	20 ∅$	5.0 ∅	5.0 ∅	1.0k△	600m	50p		N	Si	200J	F24a	
66	SDM3101	70M§	600n∅t			2.5u∅t	20 ∅$	5.0 ∅	5.0 ∅	1.0k△	600m	50p		N	Si	200J	F24a	
67	SDM3102	70M§	600n∅t			2.5u∅t	20 ∅$	5.0 ∅	5.0 ∅	1.0k△	600m	50p		N	Si	200J	F24a	
68	SDM3103	70M§	600n∅t			2.5u∅t	20 ∅$	5.0 ∅	2.5 ∅	1.0k△	800m	50p		N	Si	200J	F24a	
69	SDM3104	70M§	600n∅t			2.5u∅t	20 ∅$	5.0 ∅	2.5 ∅	1.0k△	800m	50p		N	Si	200J	F24a	
70	SDM3105	70M§	600n∅t			2.5u∅t	20 ∅$	5.0 ∅	2.5 ∅	1.0k△	800m	50p		N	Si	200J	F24a	
71	SDM3200	70M§	600n∅t			1.5u∅t	20 ∅$	5.0 ∅	5.0 ∅	1.0k△	600m	50p		P	Si	200J	F24a	
72	SDM3201	70M§	600n∅t			1.5u∅t	20 ∅$	5.0 ∅	5.0 ∅	1.0k△	600m	50p		P	Si	200J	F24a	
73	SDM3202	70M§	600n∅t			1.5u∅t	20 ∅$	5.0 ∅	5.0 ∅	1.0k△	600m	50p		P	Si	200J	F24a	
74	SDM3203	70M§	600n∅t			1.5u∅t	20 ∅$	5.0 ∅	2.5 ∅	1.0k△	800m	50p		P	Si	200J	F24a	
75	SDM3204	70M§	600n∅t			1.5u∅t	20 ∅$	5.0 ∅	2.5 ∅	1.0k△	800m	50p		P	Si	200J	F24a	
76	SDM3205	70M§	600n∅t			1.5u∅t	20 ∅$	5.0 ∅	2.5 ∅	1.0k△	800m	50p		P	Si	200J	F24a	
77	SDM3300	70M§	600n∅t			2.5u∅t	5.0 ∅$	5.0 ∅	5.0 ∅	1.0k△	600m	50p		N	Si	200J	R176e	
78	SDM3301	70M§	600n∅t			2.5u∅t	5.0 ∅$	5.0 ∅	5.0 ∅	1.0k△	600m	50p		N	Si	200J	R176e	
79	SDM3302	70M§	600n∅t			2.5u∅t	5.0 ∅$	5.0 ∅	5.0 ∅	1.0k△	600m	50p		N	Si	200J	R176e	
80	SDM3303	70M§	600n∅t			2.5u∅t	5.0 ∅$	5.0 ∅	2.5 ∅	1.0k△	800m	50p		N	Si	200J	R176e	
81	SDM3304	70M§	600n∅t			2.5u∅t	5.0 ∅$	5.0 ∅	2.5 ∅	1.0k△	800m	50p		N	Si	200J	R176e	
82	SDM3305	70M§	600n∅t			2.5u∅t	5.0 ∅$	5.0 ∅	2.5 ∅	1.0k△	800m	50p		N	Si	200J	R176e	
83	SDM3400	70M§	600n∅t			1.5u∅t	5.0 ∅$	5.0 ∅	5.0 ∅	1.0k△	600m	50p		P	Si	200J	R176e	
84	SDM3401	70M§	600n∅t			1.5u∅t	5.0 ∅$	5.0 ∅	5.0 ∅	1.0k△	600m	50p		P	Si	200J	R176e	
85	SDM3402	70M§	600n∅t			1.5u∅t	5.0 ∅$	5.0 ∅	5.0 ∅	1.0k△	600m	50p		P	Si	200J	R176e	
86	SDM3403	70M§	600n∅t			1.5u∅t	5.0 ∅$	5.0 ∅	2.5 ∅	1.0k△	800m	50p		P	Si	200J	R176e	
87	SDM3404	70M§	600n∅t			1.5u∅t	5.0 ∅$	5.0 ∅	2.5 ∅	1.0k△	800m	50p		P	Si	200J	R176e	
88	SDM3405	70M§	600n∅t			1.5u∅t	5.0 ∅$	5.0 ∅	2.5 ∅	1.0k△	800m	50p		P	Si	200J	R176e	
89	JAN2N6211	100M§☑	600n∅			3.1u∅	35 ∅	2.8 ∅	1.0 ∅	10 #△		220p☑		P	Si	200J	TO66	C∅
90	JAN2N6212	100M§☑	600n∅			3.1u∅	35 ∅	3.2 ∅	1.0 ∅	10 #△		220p☑		P	Si	200J	TO66	C∅
91	JAN2N6213	100M§☑	600n∅			3.1u∅	35 ∅	4.0 ∅	1.0 ∅	10 #△		220p☑		P	Si	200J	TO66	C∅
92#	BSV64	100M§	600n∅			1.2u∅	5.0 ∅#	2.0 ∅	2.0 ∅	40 △	200m	80p$☑		N-PE	Si	175J	TO39	A∅
93	2N396A	5.00M	650n	200n	800n	400n	200m	.35 ∅	200m∅	15 △	4.0	20p☑		P	Ge	100S	TO5	A§
94	40403	5.00M§△	650n	200n	800n	400n	200m	1.0 ∅	10m∅	30 △	4.0	20p☑		P-A	Ge	85	TO5	§
95	2N316A		700n∅		700n	800n	150m	250m∅	1.0m△	45 △	900m			P	Ge	100S	TO5	A
96	2N2636		700n		3.5u	4.0u	100 ∅	2.0 ∅	10 ∅	35 △	26m			P	Ge	110C	TO41	C∅
97	2N2637		700n		3.5u	4.0u	100 ∅	2.0 ∅	10 ∅	35 △	26m			P	Ge	110C	TO41	C∅
98	2N2638		700n		3.5u	3.5u	100 ∅	2.0 ∅	10 ∅	35 △	26m			P	Ge	110C	TO41	C∅
99	2N2000	2.0M§△	700n	120n	650n	750n	300m	.50 ∅	500m∅	300 ☑	700m	35p☑		P	Ge	100S	TO5	A
100	IR3771	2.0M§△	700n		1.0u	800n	200 ∅	4.0 ∅	8.0 ∅	5.0 △	500m			N	Si	200J	TO3	C∅
101	IR3772	2.0M§△	700n		1.0u	800n	200 ∅	4.0 ∅	30 ∅	5.0 △	100m			N	Si	200J	TO3	C∅
102	MJ3771	2.0M§△	700n		1.0u	800n	200 ∅	4.0 ∅	8.0 ∅	5.0 △	500m			N	Si	200J	TO3	C∅
103	MJ3772	2.0M§△	700n		1.0u	800n	200 ∅	4.0 ∅	30 ∅	5.0 △	100m			N	Si	200J	TO3	C∅
104	PTC174-RT	2.0M§	700n			1.1u	250 ∅	2.0 ∅	4.0	20 △				P	Si		TO3	C∅
105	PTC175-RT	2.0M§	700n			1.1u	250 ∅	2.0 ∅	4.0	20 △				N	Si		TO3	C∅
106	2N438A	2.5M△	700nt		800nt	500nt	150m	1.0 ∅	50m∅	25	5.0	20p$☑		A	Ge	85J	TO5	A§
107	2N1993	3.00M△	700nt	120nt	500nt	800nt	150m	1.0 ∅	10m	50 △	20	20p☑		N	Ge	100J	TO5	A∅
108	2N5867	4.0M§△	700n		1.0u	800n	87 ∅	4.0 ∅	3.0 ∅	4.0 △	500m	200p☑		P	Si	200J	TO3	C∅
109	2N5868	4.0M§△	700n		1.0u	800n	87 ∅	4.0 ∅	3.0 ∅	4.0 △	500m	200p☑		P	Si	200J	TO3	C∅
110	2N5869	4.0M§△	700n		1.0u	800n	87 ∅	4.0 ∅	5.0 ∅	4.0 △	500m	150p☑		N	Si	200J	TO3	C∅

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG.
1	2N6575	15M§☑	900n	150n	2 5u	700n	71 Ø$	5.0 Ø	10 Ø	5.0 Δ	500m	220p☑		N	Si	200J	TO3	CØ
2	2N1681	5.00MΔ	950nØ		950nØ		180m	.25 Ø	10m	75	10	20p☑		P-A	Ge	100J	TO5	A
3♦	2N801		1 0uØ		600n	550n	75m	350m	100mØ	10 Δ	3 2	20p☑		P	Ge	85S	R180	A
4♦	2N802		1.0uØ		600n	550n	75m	350m	100mØ	10 Δ	3.2	20p☑		P	Ge	85S	R181	B§
5#	2SC1863		1 0uØ		2.0u	1.0u	40 Ø	5.0 Ø	3.0 Ø	20 Δ#	200m#			NEM	Si	150J	F12b	CØ
6#	2SC1864		1 0uØ		2.0u	1.0u	40 Ø	5 0 Ø	3.0 Ø	20 Δ#	200m#			NEM	Si	150J	F12b	CØ
7#	2SC1865		1 0uØ		2.0u	1.0u	40 Ø	5.0 Ø	3 0 Ø	15 Δ#	200m#			NDM	Si	150J	F12b	CØ
8#	2SC1866		1.0uØ		2.0u	1.0u	80 Ø	5.0 Ø	3.0 Ø	20 Δ#	200m#			NEM	Si	150J	TO3	CØ
9#	2SC1867		1.0uØ		2.0u	1.0u	80 Ø	5.0 Ø	3.0 Ø	20 Δ#	200m#			NEM	Si	150J	TO3	CØ
10#	2SC1868		1.0uØ		2.0u	1.0u	80 Ø	5.0 Ø	3 0 Ø	15 Δ#	200m#			NDM	Si	150J	TO3	CØ
11#	2SC1869		1.0uØ		2.0u	1.0u	100 Ø	5 0 Ø	5 0 Ø	20 Δ#	100m#			NEM	Si	150J	TO3	CØ
12#	2SC1870		1.0uØ		2.0u	1.0u	100 Ø	5.0 Ø	5.0 Ø	20 Δ#	100m#			NEM	Si	150J	TO3	CØ
13#	2SC1871		1.0uØ		2.0u	1.0u	100 Ø	5 0 Ø	5.0 Ø	15 Δ#	100m#			NEM	Si	150J	TO3	CØ
14#	2SC1881K		1.0uØ†			5.0uØ†	30 Ø	15 Ø	1.5 Ø	1.0kΔ	480m			N-D	Si	150J	B17	KE
15#	2SC2126		1.0uØ		2.0u	1.0u	30 Ø	3.0 Ø	3.0 Ø	42	330m			ND	Si	150J	TO66	CØ
16#	2SC2127		1.0uØ		2.0u	1.0u	100 Ø	3.0 Ø	10 Ø	32	100m			ND	Si	150J	TO3	CØ
17#	2SC2128		1.0uØ		2 0u	1.0u	200 Ø	3 0 Ø	30 Ø	22	30m			ND	Si	150J	F29a	CØ
18#	2SD160		1.0u†		500n†	3.0u†	25 Ø	10 Ø	750mØ	50	1.0			N-D	Si	175J	TO8	AØ
19#	2SD423		1.0u†		1.0u†	600n†	30 Ø	5 0 Ø	3.0 Ø	20	400m			N-DPL	Si	175J	TO66	CØ
20▼	PM26K380		1.0u		1.0u	500n	150 Ø	3.0 Ø	5.0 Ø	10 Δ	300m			N	Si	150J	TO3	CØ
21▼	PM29K380		1.0u		1.0u	500n	150 Ø	3.0 Ø	5.0 Ø	10 Δ	300m			N	Si	150J	TO3	CØ
22#	DT1510	25k	1000n	300n	4.5u	1.0u	800m	6.0 Ø	300mØ	25	7 0			N	Si	150S	TO5	
23#	DT1511	25k	1000n	300n	4.5u	1.0u	800m	6 0 Ø	300mØ	25	7.0			N	Si	150S	TO5	
24#	DT1512	25k	1000n	300n	4.5u	1.0u	800m	6.0 Ø	300mØ	25	7.0			N	Si	150S	TO5	
25#	DT1610	.50M	1000n	300n	4.5u	1.0u	600m	6.0 Ø	200mØ	10 †Δ	7.0			N	Si	115S	TO5	
26	2N2033	1.0M§Δ	1 0uØ			1.5uØ	5.0 Ø$	4.0 Ø	500mØ	60 t☑	800m			N	Si	200C	TO5	AØ
27	2N2034	1.0M§Δ	1.0uØ			1.5uØ	5.0 Ø$	4.0 Ø	1 0 Ø	60 t☑	300m			N	Si	200C	TO5	AØ
28	2N2035	1.0M§Δ	1.0uØ			1.5uØ	14 Ø$	4.0 Ø	1 5 Ø	60 †Δ	300m			N	Si	200C	TO8	AØ
29♦	2N2036	1.0M§Δ	1 0uØ			1.5uØ	10 Ø$	4.0 Ø	2 0 Ø	20 Δ	500m			N	Si	200C	TO37	AØ
30	PT3516	1 0M§	1.0u		2.0u	1.2u	325 Ø	4.0	10	10	40	4.0n		N	Si	200	TO63	
31	PT3526	1.0M§	1.0u		2.0u	1.2u	325 Ø	4 0	20	10	40	4.0n		N	Si	200	TO63	
32	PTC129A-RT	1.0M§	1 0u			1.0u	100 Ø	10 Ø	2.0	8.0 Δ		160p		N	Si		TO3	CØ
33#	2SD184	1.50M	1000n†		500n†	3.0u†	25 Ø	4.0 Ø	750uØ	50	2.0			N-ME	Si	175J	TO8	
34#	2SD185	1 50M	1000n†		500n†	3.0u†	25 Ø	4 0 Ø	750uØ	50	2 0			N-ME	Si	175J	TO8	
35	2N5301	2.0M§Δ	1 0u		2 0u	1.0u	200 Ø	2 0 Ø	1.0 Ø	40 Δ#	75m			N	Si	200J	F4j	CØ
36	2N5302	2.0M§Δ	1.0u		2.0u	1 0u	200 Ø	2.0 Ø	1.0 Ø	40 Δ#	100m			N	Si	200J	F4j	CØ
37	2N5303	2.0M§Δ	1.0u		2.0u	1 0u	200 Ø	2.0 Ø	1 0 Ø	40 Δ#	100m			N	Si	200J	F4j	CØ
38	2N5745	2.0M§Δ	1 0u		2.0u	1.0u	200 Ø	2.0 Ø	20 Ø	5 0 Δ#				P	Si	200J	F4f	CØ
39	DT1520	2 00M	1000n	300n	4.5u	1.0u	800m	6.0 Ø	300mØ	120 ☑	7.0			N	Si	150S	TO5	
40	DT1521	2.00M	1000n	300n	4.5u	1.0u	800m	6.0 Ø	300mØ	120 ☑	7.0			N	Si	150S	TO5	
41	DT1522	2.00M	1000n	300n	4.5u	1.0u	800m	6.0 Ø	300mØ	120 ☑	7.0			N	Si	150S	TO5	
42	SPT5303	2.0M§Δ	1.0u		2.0u	1.0u	200 Ø	2.0 Ø	1.0 Ø	40 Δ#	100m#			N	Si	200J	TO3	CØ
43#	2SC1131	3.0M§Δ	1.0uØ			2 0uØ	80 Ø	5.0 Ø	2.0 Ø	15 #	600m	150p		N-P	Si	150J	TO3	CØ
44	2N4396	4.00M§Δ	1000nØ		2 0uØ		63 Ø	1.0 Ø	1 0 Ø	60 Δ	.18			N	Si	150J	TO3	CØ
45#	BDX91	4.0M§Δ	1.0uØ			2.0uØ	90 Ø	10 Ø	500mØ	40 †Δ	266m			NE	Si	200J	TO3	CØ
46#	BDX92	4.0M§Δ	1.0uØ			2.0uØ	90 Ø	10 Ø	500mØ	40 †Δ	266m			PE	Si	200J	TO3	CØ
47#	BDX93	4.0M§Δ	1.0uØ			2 0uØ	90 Ø	10 Ø	500mØ	40 †Δ	266m			NE	Si	200J	TO3	CØ
48#	BDX94	4.0M§Δ	1.0uØ			2.0uØ	90 Ø	10 Ø	500mØ	40 †Δ	266m			PE	Si	200J	TO3	CØ
49#	BDX95	4.0M§Δ	1.0uØ			2.0uØ	90 Ø	10 Ø	500mØ	40 †Δ	266m			NE	Si	200J	TO3	CØ
50#	BDX96	4.0M§Δ	1.0uØ			2.0uØ	90 Ø	10 Ø	500mØ	40 †Δ	266m			PE	Si	200J	TO3	CØ
51▼	MJE13006	4.0M§Δ	1.0u	100n	3.0u	700n	2 0	5.0 Ø	2.0 Ø	8.0 Δ#	500m#	110p		N	Si	150J	Y220b	XØ
52▼	MJE13007	4 0M§Δ	1.0u	100n	3.0u	700n	2.0	5 0 Ø	2.0 Ø	8.0 Δ#	500m#	110p		N	Si	150J	Y220b	XØ
53▼	MJE13008	4 0M§Δ	1.0u	100n	3 0u	700n	2.0	5.0 Ø	5.0 Ø	8.0 Δ#	250m#	180p		N	Si	150J	Y220b	XØ
54▼	MJE13009	4.0M§Δ	1.0u	100n	3.0u	700n	2.0	5.0 Ø	5.0 Ø	8.0 Δ#	250m#	180p		N	Si	150J	Y220b	XØ
55	2N1624	5.0MΔ	1 0uØ			700n	700n	150m	1.0 Ø	30mØ	180 ☑		25p☑		N	Ge	100J	TO5	A
56	2N426	6.0M	1.0uØ				1.1uØ		350mØ	10mΔ	18	3.2	14p		P-FA	Ge	85J	TO5	A
57	2N1344	7.00MΔ	1000n	60n	500n	800n	150m	1.0 Ø	20m	90		12p	90n†	P-A	Ge	85J	TO5	A
58	2N388A	8.00M	1000nØ		700n	700n	150m	.50 Ø	30mØ	180 ☑		20p☑		N	Ge	100J	TO5	A§
59	2N576A	8.00M	1000n				200m	.40 Ø	400m	30 †		15p		N-A	Ge	100J	TO5	A§
60▼	DTS4062	8.0M§Δ	1.0u†		1.8u†	3.0u†	100 Ø	10	200mØ	8.0 †Δ	200m	200p☑		N-D	Si	150S	TO3	KFØ
61▼	DTS4072	8.0M§Δ	1.0u†		1.5u†	500n†	100 Ø	10	200mØ	8.0 †Δ	175m	200p☑		N-D	Si	150S	TO3	KFØ
62	2N1316	10.0MΔ	1000nØ		800n	1.0u	200m	.25 Ø	1.0m	95		14p	150n†	P-A	Ge	85J	TO5	A
63	2N5049	10.0M§☑	1000n		2.5u	1.0u	100	4.0 Ø	100uØ	15 Δ	250m			N	Si	200S	TO61	AØ
64▼#	2SC2139	10M§	1.0u		2.0u	1.0u	100 Ø	5.0 Ø	5.0 Ø	10 Δ#	300m#			N	Si	150J	TO3	
65▼#	2SC2200	10M§	1 0u		2.0u	1.0u	40 Ø	5.0 Ø	3.0 Ø	10 Δ#	500m#			N	Si	150J	TO3	
66▼	MJE13002	10M§	1.0u	100n	4.0u	700n	1.4	2.0 Ø	500mØ	8 0 Δ#	2.0 #	21p		N	Si	150J	TO126	D
67▼	MJE13003	10M§	1.0u	100n	4.0u	700n	1.4	2.0 Ø	500mØ	8.0 Δ#	2.0 #	21p		N	Si	150J	TO126	D
68	SDM21301	10M§	1.0u	175n	1.1u	800n	100 Ø	5.0 Ø	5.0 Ø	1.0kΔ	350m	300p		P	Si	200J	F4q	KCØ
69	SDM21302	10M§	1.0u	175n	1.1u	800n	100 Ø	5.0 Ø	5.0 Ø	1.0kΔ	350m	300p		P	Si	200J	F4q	KCØ
70	SDM21303	10M§	1.0u	175n	1.1u	800n	100 Ø	5.0 Ø	5.0 Ø	1.0kΔ	350m	300p		P	Si	200J	F4q	KCØ
71	SDM21304	10M§	1.0u	175n	1.1u	800n	100 Ø	5.0 Ø	5.0 Ø	1.0kΔ	350m	300p		P	Si	200J	F4q	KCØ
72	2N316	12M	1.0uØ		800n	1.0u	100m	200mØ	200mØ	30 †Δ		14p		P-A	Ge	85S	TO5	A
73#	2SD538	15M§	1.0u†		1.5u†	700n†	100 Ø	5.0 Ø	5.0 Ø	15	300m			N-DM	Si	175J	TO3	CØ
74#	2SD539	15M§	1.0u†		1.5u†	700n†	100 Ø	5.0 Ø	5.0 Ø	15	300m			N-DM	Si	175J	TO3	CØ
75#	BUY20	15M§Δ	1.0uØ†		3.0u	1.0u	85 Ø	5.0 Ø	3.0 Ø	40 #		200p☑		N	Si	175J	TO3	CØ
76#	BUY21	15M§Δ	1.0uØ†		3.0u	1.0u	85 Ø	5.0 Ø	3.0 Ø	40 #		200p☑		N	Si	175J	TO3	CØ
77#	BUY22	15M§Δ	1.0uØ†		3.0u	1.0u	85 Ø	5.0 Ø	3.0 Ø	40 #		200p☑		N	Si	175J	TO3	CØ
78	2N6215	20M§Δ	1.0u		1.0u	250n	125 $	2.0 Ø	25 Ø	25 Δ#				N	Si	200J	TO63	AØ
79#	2SC728	20.0M§	1000n		8.0u	2.0u	350m	4.0 Ø	10mØ	90		9.0p		N	Si	175J	TO18	
80#	2SD542	20M§	1.0u†		2.0u†	1.0u†	200 Ø	5.0 Ø	15 Ø	25	133m			N-DM	Si	175J	F1a	CØ
81#	2SD543	20M§	1 0u†		2.0u†	1.0u†	200 Ø	5 0 Ø	15 Ø	25	133m			N-DM	Si	175J	F1a	CØ
82▼#	BUW24	20M§	1.0uØ		3.0u	1.5u	90 Ø	5.0 Ø	1.0 Ø	10 Δ	480m			N-PE	Si	175J	TO3	CØ
83▼#	BUW25	20M§	1.0uØ		3.0u	1.5u	90 Ø	5.0 Ø	1.0 Ø	12 Δ	1.5			N-PE	Si	175J	TO3	CØ
84▼#	BUW26	20M§	1.0uØ		3.0u	1.5u	125 Ø	5.0 Ø	1.0 Ø	10 Δ	1.0			N-PE	Si	200J	TO3	CØ
85	2N6544	24M§☑	1.0u	50n	4.0u	1.0u	71 Ø$	3 0 Ø	2.5 Ø	12 Δ	625m	200p☑		N	Si	200J	TO3	CØ
86	2N6545	24M§☑	1.0u	50n	4.0u	1.0u	71 Ø$	3.0 Ø	2.5 Ø	12 Δ	625m	200p☑		N	Si	200J	TO3	CØ
87	2N6546	24M§☑	1.0u	50n	4.0u	700n	100 Ø$	2.0 Ø	5.0 Ø	12 Δ	3.0	360p☑		N	Si	200J	TO3	CØ
88	2N6547	24M§☑	1.0u	50n	4.0u	700n	100 Ø$	2.0 Ø	5.0 Ø	12 Δ	3.0	360p☑		N	Si	200J	TO3	CØ
89#	BLY47	25.0M§	1.0uØ			3.0uØ	40 Ø	10 Ø	1.0 Ø	30 Δ#		200p☑		N-DM	Si	175J	TO3	CØ
90#	BLY47A	25.0M§	1.0uØ			3.0uØ	4.0 Ø#	10 Ø	1.0 Ø	30 Δ#		200p☑		N-DM	Si	175J	TO66	CØ
91#	BLY48	25.0M§	1.0uØ			3.0uØ	40 Ø	10 Ø	1.0 Ø	60 Δ#		200p☑		N-DM	Si	175J	TO3	CØ
92#	BLY48A	25.0M§	1000nØ			3.0uØ	40 Ø	10 Ø	1.0 Ø	60 Δ#		200p☑		N-DM	Si	175J	TO66	CØ
93#	BLY49	25.0M§	1000nØ			3.0uØ	40 Ø	10 Ø	1.0 Ø	30 Δ#		200p☑		N-DM	Si	175J	TO3	CØ
94#	BLY49A	25.0M§	1000nØ			3.0uØ	40 Ø	10 Ø	1.0 Ø	30 Δ#		200p☑		N-DM	Si	175J	TO66	CØ
95#	BLY50	25.0M§	1000nØ			3 0uØ	40 Ø	10 Ø	1.0 Ø	60 Δ#		200p☑		N-DM	Si	175J	TO3	CØ
96#	BLY50A	25.0M§	1000nØ			3.0uØ	40 Ø	10 Ø	1.0 Ø	60 Δ#		200p☑		N-DM	Si	175J	TO66	CØ
97#	BUY23	25M§	1.0uØ†		3.0u	1.0u	100 Ø	5.0 Ø	2.5 Ø	50		90p		N-DM	Si	175J	TO3	CØ
98#	BUY23A	25M§	1.0uØ†		3.0u	1 0u	100 Ø	5.0 Ø	2.5 Ø	50		90p		N-DM	Si	175J	TO3	CØ
99	2N4002	30.0M§Δ	1000nØ			3uØ	4.0	4.0 Ø	1 Ø	30 †Δ	.04			N	Si	200J	TO63	AØ
100	2N4003	30.0M§Δ	1000nØ			3uØ	4.0	4.0 Ø	1 Ø	30 †Δ	.04			N	Si	200J	TO63	AØ
101	2N3388	36.0M§Δ	1000n	200n	400n	1.2u	600m	1.5 Ø	2.5mØ	60 Δ	400	35p☑		N	Si	175A	TO5	AØ
102	2N3389	36.0M§Δ	1000n	200n	400n	1.2u	600m	1.5 Ø	2.5mØ	60 Δ	400	35p☑		N	Si	175A	TO5	AØ
103	JAN2N5302	40M§☑	1 0uØ		2 0u	3.0uØ	115 Ø$	10 Ø	1.0 Ø	40 †Δ		800p☑		N	Si	200A	TO3	CØ
104	JAN2N5303	40M§☑	1.0uØ		2 0u	3.0uØ	115 Ø$	10 Ø	1.0 Ø	40 †Δ		800p☑		N	Si	200A	TO3	CØ
105	2N5560	40.0M§Δ	1uØ			2uØ	150 $	2.0 Ø	15 Ø	30 Δ	.05	600p$		N	Si	200J	TO63	AØ
106	JAN2N5745	40M§☑	1.0uØ		2.0u	3.0uØ	115 Ø$	10 Ø	1.0 Ø	40 †Δ		1.0f☑		P	Si	200A	TO3	CØ
107	2N6576	40M§☑	1.0u	150n	2 0u	7 0u	87 Ø$	3.0 Ø	4.0 Ø	2.0kΔ	266m			N	Si	200J	TO3	CØ
108	2N6577	40M§☑	1.0u	150n	2.0u	7.0u	87 Ø$	3.0 Ø	4 0 Ø	2.0kΔ	266m			N	Si	200J	TO3	CØ
109	2N6578	40M§☑	1.0u	150n	2.0u	7 0u	87 Ø$	3 0 Ø	4.0 Ø	2.0kΔ	266m			N	Si	200J	TO3	CØ
110	PT1937	40.0M§Δ	1000nØ			3.0uØ	100 Ø	2 0 Ø	7.0 Ø	60 ☑	140m			N-DPL	Si	150J	T38	Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	M A T	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1▼	SDT55956	2.0M§Δ	1.4uØ		2.6u	1.3u	700 Ø	5.0 Ø	40 Ø	10 Δ	37m			N-PL	Si	200J	T145	AØ
2▼	SDT55960	2.0M§Δ	1.4uØ		2.6u	1.3u	700 Ø	5.0 Ø	40 Ø	10 Δ	37m			N-PL	Si	200J	T145	AØ
3#	2G527	3.30M	1400n	420n	1.5u	1.1u		225	1.0mØ	20	95	27p		P-A	Ge	85J	TO5	
4	2N404	13.0M	1400n▼				150m	.20 Ø	24m	40	6.3	12p		P-A	Ge	85A	TO5	A§
5	2N1605	14.0M	1400n▼				150m	.25 Ø	20mØ	125		13p		N-A	Ge	100J	TO5	A
6#	2G1027	3.30M	1440n	420n	1.4u	1 3u	225m	1.0 Ø	20mØ	95		27p		P-A	Ge	85J	TO5	
7#	2SC1228		1.5uØ†		1.6u†	700n†	100 Ø	5.0 Ø	5 0 Ø	15	300m			N-DM	Si	175J	TO3	CØ
8#	2SC1299		1.5uØ†		2.5u†	3.5uØ†	200 Ø	5.0 Ø	10 Ø	40	100m			N-DM	Si	175J	F1a	CØ
9	TIP120		1.5uØ			8.5uØ	2.0	3.0 Ø	500mØ	1.0kΔ#	800m#			N	Si	150J	B1	KBØ
10	TIP121		1.5uØ			8.5uØ	2 0	3.0 Ø	500mØ	1.0kΔ#	800m#			N	Si	150J	B1	KBØ
11	TIP122		1.5uØ			8.5uØ	2.0	3.0 Ø	500mØ	1.0kΔ#	800m#			N	Si	150J	B1	KBØ
12	TIP125		1.5uØ			8.5uØ	2.0	3.0 Ø	500mØ	1.0kΔ#	800m#			P	Si	150J	B1	KBØ
13	TIP126		1.5uØ			8.5uØ	2.0	3.0 Ø	500mØ	1.0kΔ#	800m#			P	Si	150J	B1	KBØ
14	TIP127		1.5uØ			8.5uØ	2.0	3.0 Ø	500mØ	1.0kΔ#	800m#			P	Si	150J	B1	KBØ
15	IR3773	1.0M§Δ	1.5u		2.0u	1.8u	200 Ø	4.0 Ø	1.0 Ø	40 †Δ	100m			N-D	Si	200J	TO3	CØ
16	IR6302	1.0M§Δ	1.5u		2.0u	1.8u	150 Ø	4.0 Ø	1.0 Ø	40 †Δ	100m			N-D	Si	200J	TO3	CØ
17	MJ3773	1.0M§Δ	1.5u		2.0u	1.8u	200 Ø	4.0 Ø	1.0 Ø	40 †Δ	100m			N-D	Si	200J	TO3	CØ
18	MJ6302	1.0M§Δ	1.5u		2.0u	1.8u	150 Ø	4.0 Ø	1.0 Ø	40 †Δ	100m			N-D	Si	200J	TO3	CØ
19	2N2580M	2.00M§Δ	1500nØ			3.2uØ	150 Ø	5.0 Ø	10 Ø	4.0 Δ	140m			N-D	Si	150J	TO36	CØ
20#	2G526	3.00M	1500n	450n	1.4u	1.4u		225	1.0mØ	20	73	27p		P-A	Ge	85J	TO5	
21	2N6510	3.0M§Δ	1.5u	200n	5.0u	1.5u	68 Ø$	3.0 Ø	3.0 Ø	10 Δ#	500m	200p☑		N	Si	200J	TO3	CØ
22	2N6511	3.0M§Δ	1.5u	200n	5.0u	1.5u	68 Ø$	3.0 Ø	4.0 Ø	10 Δ#	375m	200p☑		N	Si	200J	TO3	CØ
23	2N6512	3.0M§Δ	1.5u	200n	5.0u	1.5u	68 Ø$	3.0 Ø	4.0 Ø	10 Δ#	375m	200p☑		N	Si	200J	TO3	CØ
24	2N6513	3.0M§Δ	1.5u	200n	5.0u	1.5u	68 Ø$	3.0 Ø	4.0 Ø	10 Δ#	375m	200p☑		N	Si	200J	TO3	CØ
25	2N6514	3.0M§Δ	1.5u	200n	5.0u	1.5u	68 Ø$	3.0 Ø	5.0 Ø	10 Δ#	300m	200p☑		N	Si	200J	TO3	CØ
26#	2SC1142	3.0M§Δ	1.5uØ			3.0uØ	125 Ø	5.0 Ø	5.0 Ø	15 #	400m	270p		N-P	Si	150J	TO3	CØ
27#	2SC1143	3.0M§Δ	1.5uØ			3.0uØ	125 Ø	5.0 Ø	5.0 Ø	15 #	400m	270p		N-P	Si	150J	TO3	CØ
28	2N1343	4.0MΔ	1.5u				150m	350mØ	10mØ	15 Δ		20p☑		P-A	Ge	85J	TO5	A
29	2N5838	5.0M§Δ	1.5u		3.0u	1.5u	57 Ø$	2.0 Ø	3.0 Ø	8.0 Δ#				N	Si	200J	TO3	CØ
30	2N5839	5.0M§Δ	1.5u		3.7u	1.5u	57 Ø$	3.0 Ø	2.0 Ø	10 Δ#				N	Si	200J	TO3	CØ
31#	2SC1136	8.0M§Δ	1.5uØ			5.0uØ	200 Ø	5.0 Ø	10 Ø	20 #	100m	650p		N-P	Si	150J	F29	CØ
32#	2SC1138	8.0M§Δ	1.5uØ			5.0uØ	200 Ø	5.0 Ø	10 Ø	20 #	100m	650p		N-P	Si	150J	F29	CØ
33#	2SC1139	8.0M§Δ	1.5uØ			5.0uØ	200 Ø	5.0 Ø	10 Ø	20 #	100m	650p		N-P	Si	150J	F29	CØ
34#	2SC1140	8.0M§Δ	1.5uØ			5.0uØ	150 Ø	5.0 Ø	7.5 Ø	15 #	266m	350p		N-P	Si	150J	TO3	CØ
35#	2SC1141	8.0M§Δ	1.5uØ			5.0uØ	150 Ø	5.0 Ø	7.5 Ø	15 #	266m	350p		N-P	Si	150J	TO3	CØ
36#	2SC1144	8.0M§Δ	1.5uØ			5.0uØ	200 Ø	5.0 Ø	10 Ø	20 #	100m	650p		N-D	Si	150J	F29	CØ
37#	2SC1145	8.0M§Δ	1.5uØ			2.5uØ	175 Ø	5.0 Ø	10 Ø	20 #	200m	650p		N-D	Si	150J	F29	CØ
38#	BUX10	8.0M§Δ	1.5uØ		1.2u	200nØ	150 Ø	4.0 Ø	2.0 Ø	10 Δ	60m			N-DM	Si	200J	TO3	CØ
39#	BUX11	8.0M§Δ	1.5uØ		1.2u	500nØ	150 Ø	4.0 Ø	12 Ø	10 Δ	125m			N-DM	Si	200J	TO3	CØ
40#	BUX12	8.0M§Δ	1.5uØ		1.5u	500nØ	150 Ø	4.0 Ø	10 Ø	10 Δ	150m			N-DM	Si	200J	TO3	CØ
41#	BUX20	8.0M§Δ	1.5uØ		1.2u	200nØ	250 Ø	4.0 Ø	40 Ø	10 Δ	30m			N-DM	Si	200J	TO3	CØ
42#	BUX21	8.0M§Δ	1.5uØ		1.2u	500nØ	250 Ø	4.0 Ø	25 Ø	10 Δ	60m			N-DM	Si	200J	TO3	CØ
43#	BUX22	8.0M§Δ	1.5uØ		1.5u	500nØ	250 Ø	4.0 Ø	20 Ø	10 Δ	75m			N-DM	Si	200J	TO3	CØ
44#	BUX39	8.0M§Δ	1.5uØ		1.0u	200nØ	120 Ø	4 0 Ø	20 Ø	10 Δ	80m			N-DM	Si	200J	TO3	CØ
45#	BUX41	8.0M§Δ	1.5uØ		1.5u	800nØ	120 Ø	4.0 Ø	8.0 Ø	8.0 Δ	200m			N-DM	Si	200J	TO3	CØ
46#	BUX42	8.0M§Δ	1.5uØ		1.5u	1.0uØ	120 Ø	4.0 Ø	6.0 Ø	8.0 Δ	266m			N-DM	Si	200J	TO3	CØ
47#	BUX43	8.0M§Δ	1.5uØ		1.5u	1.0uØ	120 Ø	4.0 Ø	5.0 Ø	8.0 Δ	320m			N-DM	Si	200J	TO3	CØ
48	IR4040	8.0M§Δ	1.5u†		3.0u†	1.8u†	125 Ø	5.0 Ø	3.0 Ø	250 Δ	133m			D	Si	150J	TO3	KFØ
49	IR4045	8.0M§Δ	1.5u†		3.0u†	1.8u†	125 Ø	5.0 Ø	5.0 Ø	100 Δ	120m			D	Si	150J	TO3	KFØ
50	IR4050	8.0M§Δ	1.5u†		3.0u†	1.8u†	125 Ø	5.0 Ø	15 Ø	8.0 Δ	133m			D	Si	150J	TO3	KFØ
51	IR4055	8.0M§Δ	1.5u†		3.0u†	1.8u†	125 Ø	5.0 Ø	3.0 Ø	500 Δ	120m			D	Si	150J	TO3	KFØ
52	IR4060	8.0M§Δ	1.5u†		3.0u†	1.8u†	125 Ø	5.0 Ø	5.0 Ø	200 Δ	133m			D	Si	150J	TO3	KFØ
53	IR4065	8.0M§Δ	1.5u†		3.0u†	1.8u†	125 Ø	5.0 Ø	15 Ø	15 Δ	120m			D	Si	150J	TO3	KFØ
54	2N6060	10M§Δ	1.5uØ			2.0uØ	225 Ø#	10 Ø	1.0 Ø	40 Δ#	50m#	850p☑		N	Si	200J	TO63	AØ
55	2N6061	10M§Δ	1.5uØ			2.0uØ	225 Ø#	10 Ø	1.0 Ø	40 Δ#	55m#	1.3n☑		P	Si	200J	TO63	AØ
56	2N6062	10M§Δ	1.5uØ			2.0uØ	225 Ø#	10 Ø	1.0 Ø	40 Δ#	50m#	850p☑		N	Si	200J	TO63	A
57	2N6063	10M§Δ	1.5uØ			2.0uØ	225 Ø#	10 Ø	1.0 Ø	40 Δ#	55m#	1.3n☑		P	Si	200J	TO63	A
58	2N6569	15M§☑	1.5u	400n	5.0u	1.5u	60 Ø	4.0 Ø	12 Ø	5.0 Δ#	333m#	750p☑		N	Si	200J	TO3	CØ
59#	2SC1230	15M§	1.5uØ†		1.6u†	700n†	100 Ø	5.0 Ø	5.0 Ø	15	300m			N-DM	Si	175J	TO3	CØ
60	JAN2N3715	20M§☑	1.5uØ			2.0uØ	85 Ø$	4.0 Ø	10 Ø	5.0 Δ#		500p☑		N	Si	200A	TO3	CØ
61	JAN2N3716	20M§☑	1.5uØ			2.0uØ	85 Ø$	4.0 Ø	10 Ø	5.0 Δ#		500p☑		N	Si	200A	TO3	CØ
62	JAN2N3791	20M§☑	1.5uØ			2.0uØ	85 Ø$	4 0 Ø	10 Ø	5.0 Δ#		500p☑		P	Si	200A	TO3	CØ
63	JAN2N3792	20M§☑	1.5uØ			2.0uØ	85 Ø$	4.0 Ø	10 Ø	5.0 Δ#		500p☑		P	Si	200A	TO3	CØ
64	2N5540	20M§Δ	1.5u	1.5u		1.5u	50 Ø	5.0 Ø	5.0 Ø	20 Δ#				N	Si	200J	TO61	AØ
65	JAN2N5683	20M§☑	1.5uØ		2.0u	3.0uØ	171 Ø$	5.0 Ø	50 Ø	5.0 Δ#		2.0n☑		P	Si	200S	F6c	CØ
66	JAN2N5684	20M§☑	1.5uØ		2.0u	3.0uØ	171 Ø$	5.0 Ø	50 Ø	5.0 Δ#		2.0n☑		P	Si	200S	F6c	CØ
67	JAN2N5685	20M§☑	1.5uØ		2.0u	3.0uØ	171 Ø$	5.0 Ø	50 Ø	5.0 Δ#		1.2n☑		N	Si	200S	F6c	CØ
68	JAN2N5686	20M§☑	1.5uØ		2.0u	3.0uØ	171 Ø$	5.0 Ø	50 Ø	5.0 Δ#		1.2n☑		N	Si	200S	F6c	CØ
69	JAN2N5838	20M§☑	1.5uØ			4.5uØ	100 Ø	5.0 Ø	500mØ	20 Δ#	333m#	150p☑		N	Si	200J	TO3	CØ
70	JAN2N5839	20M§☑	1.5uØ			5.2uØ	100 Ø	5.0 Ø	500mØ	20 Δ#	750m#	150p☑		N	Si	200J	TO3	CØ
71	2N6594	25M§☑	1.5u	400n	5 0u	1.5u	57 Ø$	4.0 Ø	12 Ø	5.0 Δ#	375m#	1.0f☑		P	Si	200J	TO3	CØ
72#	2SC1301	25M§	1 5uØ†		2.5u†	1.0u†	200 Ø	5 0 Ø	10 Ø	40	100m			N-DM	Si	175J	F1a	CØ
73#	2SD518	30M§	1.5u†		1.5u†	1.0u†	30 Ø	5 0 Ø	3.0 Ø	20	400m			N-DPL	Si	175J	TO66	
74	PT1949	50.0M§	1500nØ			3.0uØ	50 Ø	2.0 Ø	5.0m	25 Δ				N-PL	Si	150J	W39	
75	JAN2N3739	60M§☑	1.5uØ			3.5uØ	10 Ø$	10 Ø	10mØ	30 Δ#	10 #	20p☑		N	Si	175A	TO66	CØ
76	JAN2N6060	80M§☑	1.5uØ			2.0uØ	150 Ø$	10 Ø	2.0 Ø	40 Δ#				N	Si	200J	TO63	AØ
77	JAN2N6061	80M§☑	1.5uØ			2.0uØ	150 Ø$	10 Ø	2.0 Ø	40 Δ#				P	Si	200J	TO63	AØ
78	JAN2N6062	80M§☑	1.5uØ			2.0uØ	150 Ø$	10 Ø	2.0 Ø	40 Δ#				N	Si	200J	TO63	A
79	JAN2N6063	80M§☑	1.5uØ			2.0uØ	150 Ø$	10 Ø	2.0 Ø	40 Δ#				P	Si	200J	TO63	A
80#	2G1026	3.00M	1540n	450n	1 4u	1.4u	225m	1.0 Ø	20mØ	73		27p		P-A	Ge	85J	TO5	
81	2N1068	750kΔ	1.6u	200n	1.0u	1.8u	5.0 $	4 0 Ø	750mØ	38	2.6			N-D	Si	175A	TO8	AØ
82#	2SD124AH	1.0M	1.6uØ†		2.2u†	5.0u†	60 Ø	4.0 Ø	1.5 Ø	40	200m			N-D	Si	175J	F6h	CØ
83#	2SD125AH	1 0M	1.6uØ†		2.2u†	5.5u†	60 Ø	4.0 Ø	1.5 Ø	40	200m			N-D	Si	175J	F6h	CØ
84#	2SD126H	1.0M	1.6uØ†		2.2u†	6 0u†	60 Ø	4.0 Ø	1.5 Ø	40	1.0			N-D	Si	175J	F6h	CØ
85	2N5840	5.0M§Δ	1.7u		3.0u	1.5u	57 Ø$	3.0 Ø	2.0 Ø	10 Δ#				N	Si	200J	TO3	CØ
86	JAN2N5840	20M§☑	1.75uØ			4.5uØ	100 Ø	5.0 Ø	500mØ	20 Δ#	750m#	150p☑		N	Si	200J	TO3	CØ
87#	2SD329		1.8u†		3.0u†	3.5u†	800m	4.0 Ø	1.0 Ø	40	500m			N-D	Si	175J	TO39	A
88	2N1069	500kΔ	1.8u	200n	800n	1.4u	25 $	4.0 Ø	1.5 Ø	20	2.0			N-D	Si	175A	TO3	CØ
89	2N1070	500kΔ	1.8u	200n	800n	1.4u	25 $	4.0 Ø	1.5 Ø	20	670m			N-D	Si	175A	TO3	CØ
90	2N315	5.00M	1.8uØ		600n	1.0u	100m	200mØ	100mØ	15 †Δ		14p		P-A	Ge	85S	TO5	A
91	2N587		2.0u			2.0u	150m	500mØ	200mØ	20 Δ		30p☑		N	Ge		TO5	A§
92#	2SC833		2.0uØ		4.0u	3.0uØ	25 Ø	10 Ø	100mØ	40 Δ	1.2	150p		N-DM	Si	150J	TO66	CØ
93▼#	2SD364		2.0uØ		4.0u	6.0uØ	200 Ø	5.0 Ø	15 Ø	30				N-ME	Si	175J	F27a	CØ
94#	2SD472H		2.0uØ†			9.0 Ø†	80 Ø	2.0 Ø	5.0 Ø	1.0kΔ	150m			N-D	Si	150J	TO3	KFØ
95▼	RCA9113		2.0u		3.2u	1.5u	175 Ø	3.0 Ø	5.0	15 #	100m	200p☑		N	Si	200J	TO3	CØ
96▼	RCA9113A		2.0u		3.2u	1.5u	175 Ø	3.0 Ø	5.0	15 #	135m	200p☑		N	Si	200J	TO3	CØ
97▼	RCA9113B		2.0u		3.2u	1 5u	175 Ø	3.0 Ø	5.0	15 #	150m	200p☑		N	Si	200J	TO3	CØ
98#	BDY20	800k§Δ	2.0u†	400n†	2.0u†	2.5u†	115 Ø	4.0 Ø	4.0 Ø	20 Δ	275m	250p$		N-D	Si	200J	TO3	CØ
99	2N2858	1.00M§Δ	2000nØ			5uØ	600m	4.0 Ø	1.0 Ø	20 Δ	.30			N-D	Si	200J	TO5	AØ
100	2N2859	1.00M§Δ	2000nØ			5uØ	600m	4.0 Ø	1.0 Ø	20 Δ	.30			N-D	Si	200J	TO5	AØ
101	PT7509	1.0M	2.0u	2.0n	2.0u	1.5u	350	2.0 Ø	30 Ø	10	100m	1.8n		N-DM	Si	200J	TO63	
102	PT7510	1.0M	2.0u	2.0n	2.0u	1.5u	350	2.0 Ø	40 Ø	10	100m	1.8n		N-DM	Si	200J	TO63	
103	PT7511	1.0M	2.0u	2 0n	2.0u	1.5u	350	2.0 Ø	50 Ø	10	100m	1.8n		N-DM	Si	200J	TO63	
104▼	SDT55470	1.5M§Δ	2.0uØ		3.5u	1.6u	620 Ø	5.0 Ø	20 Ø	10 Δ	50m			N-PL	Si	200J	TO63	AØ
105▼	SDT55472	1.5M§Δ	2.0uØ		3.5u	1.6u	620 Ø	5.0 Ø	20 Ø	10 Δ	50m			N-PL	Si	200J	TO63	AØ
106#	2SD110	2.00M§	2000nØ†		12u†	9.0u†	100 Ø	5.0 Ø	5.0 Ø	10 Δ	.30	200p		N-D	Si	150J	TO3	CØ
107#	2SD111	2.00M§	2000nØ†		12u†	9.0u†	100 Ø	5.0 Ø	5.0 Ø	10 Δ	.30	200p		N-D	Si	150J	TO3	CØ
108#	2G525	2.50M	2000n	500n	1.2u	1.5u		225	1.0mØ	20	52	27p		P-A	Ge	85J	TO5	
109#	2G1025	2.50M	2000n	550n	1.3u	1.5u	225m	1.0 Ø	20mØ	52		27p		P-A	Ge	85J	TO5	
110	2N6249	2.5M§Δ	2.0u		3.5u	1 0u	100 Ø$	3.0 Ø	10 Ø	10 Δ	150m			N	Si	200J	TO3	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG
1	PT602	1.0M	3 0u	2 0n	2.0u	2.0u	350	2 0 Ø	60 Ø	10	100m	1 8n		N	Si	200J	TO114	
2	PT7503	1 0M	3 0u	2.0n	2.0u	2.0u	350	2.0 Ø	30 Ø	10	100m	1.8n		N	Si	200J	TO63	
3	PT7506	1.0M	3.0u	2.0n	2.0u	2.0u	350	2 0 Ø	40 Ø	10	100m	1.8n		N	Si	200J	TO63	
4	PT7508	1 0M	3.0u	2.0n	2 0u	2.0u	350	2 0 Ø	50 Ø	10	100m	1 8n		N	Si	200J	TO63	
5	PT8502	1 0M	3.0u	2.0n	2 0u	2 0u	350	2 0 Ø	100 Ø	10	100m	1 8n		N	Si	200J	TO114	
6#	2G524	2.00M	3000n	600n	1 0u	1.6u		225	1.0mØ	20	35	27p		P-A	Ge	85J	TO5	
7#	2G1024	2 00M	3000n	600n	1.2u	1 6u	225m	1.0 Ø	20mØ	35		27p		P-A	Ge	85J	TO5	
8	2N679	3.00M	3000n				150m	.50 Ø	3.0m	30 †				N-A	Ge	85J	R5	
9	JAN2N2034	6.0M§☑	3.0uØ			6 0uØ	7.5 Ø$	4 0 Ø	250mØ	35 △#		200p☑		N	Si	200A	TO5	AØ
10	JAN2N2858	6.0M§☑	3.0uØ			6 0uØ	7.5 Ø$	4.0 Ø	250mØ	35 △#		200p☑		N	Si	200A	TO5	AØ
11	JAN2N2859	6.0M§☑	3 0uØ			6 0uØ	7.5 Ø$	4 0 Ø	250mØ	35 △#		200p☑		N	Si	200A	TO5	AØ
12	JAN2N2911	6.0M§☑	3.0uØ			6.0uØ	7.5 Ø$	4.0 Ø	250mØ	35 △#		200p☑		N	Si	200A	TO5	AØ
13	2N3584	10M§△	3 0u		4 0u	3 0u	35 Ø	2 0 Ø	1.0 Ø	80 ☑	750m			N	Si	200C	TO66	CØ
14	2N3585	10M§△	3.0u		4 0u	3 0u	35 Ø	2 0 Ø	1.0 Ø	80 ☑	750m			N	Si	200C	TO66	CØ
15	2N6421	10M§△	3.0u		4 0u	3.0u	35 Ø	2.0 Ø	1.0 Ø	8.0 △#	750m#			P	Si	200J	TO66	CØ
16	2N6422	10M§△	3.0u		4 0u	3.0u	35 Ø	2 0 Ø	1.0 Ø	8.0 △#	750m#			P	Si	200J	TO66	CØ
17#	BDY45	10M§△	3.0uØ			1 0u	95 Ø	2.0 Ø	10 Ø	5 0	100m	200p$☑		N	Si	200J	TO3	CØ
18#	BDY46	10M§△	3.0uØ			1 0u	95 Ø	2 0 Ø	10 Ø	5 0	100m	200p$☑		N	Si	200J	TO3	CØ
19#	BDY47	10M§△	3 0uØ			1 0u	95 Ø	2.0 Ø	10 Ø	5.0	100m	200p$☑		N	Si	200J	TO3	CØ
20#	BUX67	10M§△	3.0u		4.0u	3 0u	35 Ø	5.0 Ø	1.0 Ø	10 △#	2 5 #	120p☑		N	Si	200J	TO66	CØ
21#	BUX67A	10M§△	3.0u		4.0u	3 0u	35 Ø	5.0 Ø	1.0 Ø	10 △#	2.5 #	120p☑		N	Si	200J	TO66	CØ
22#	BUX67B	10M§△	3.0u		4.0u	3.0u	35 Ø	5 0 Ø	1.0 Ø	10 △#	2.5 #	120p☑		N	Si	200J	TO66	CØ
23#	BUX67C	10M§△	3 0u		4.0u	3.0u	35 Ø	5.0 Ø	1.0 Ø	10 △#	2 5 #	120p☑		N	Si	200J	TO66	CØ
24	MJ3584	10M§△	3.0u		4.0u	3 0u	35 Ø	10 Ø	1.0 Ø	25 △	750m	120p☑		P	Si	200J	TO66	CØ
25	MJ3585	10M§△	3 0u		4 0u	3 0u	35 Ø	10 Ø	1.0 Ø	25 △	750m	120p☑		P	Si	200J	TO66	CØ
26	JAN2N3584	75M§☑	3.0uØ			7 0uØ	35 Ø	10 Ø	100mØ	40 △		120p☑		N	Si	200J	TO66	CØ
27	JAN2N3585	75M§☑	3.0uØ			7.0uØ	35 Ø	10 Ø	100mØ	40 △		120p☑		N	Si	200J	TO66	CØ
28	2N556		3.5uØ			20uØ	100m	200mØ	1.0mA	70 ☑	2.5	20p☑		N	Ge	85J	TO5	A
29	2N558		3 5uØ			2.0uØ	100m	200mØ	1.0mA	20 ☑	3.7	20p☑		N-A	Ge	85J	TO5	A
30#	2SD231		3.5uf		6.0uf	5 0uf	125 Ø	4 0 Ø	10 Ø	25	100m			N-D	Si	175J	TO3	CØ
31	CDT1319	.006Mf	3500n		6 5u	2 5u	45mØ	2.0 Ø	2.0m	40	30			P-A	Ge	100J	TO3	CØ
32	CDT1320	.006Mf	3500n		6 5u	2.5u	45mØ	2 0 Ø	2.0m	40	.30			P-A	Ge	100J	TO3	CØ
33	CDT1321	.006Mf	3500n		6.5u	2.5u	45mØ	2.0 Ø	2 0m	40	.30			P-A	Ge	100J	TO3	CØ
34	CDT1322	.006Mf	3500n		6.5u	2.5u	45mØ	2.0 Ø	2.0m	40	.30			P-A	Ge	100J	TO3	CØ
35	CDT1310	.008Mf	3500n		6.5u	2 5u	45mØ	2.0 Ø	2.0m	80	.30			P-A	Ge	100J	TO3	CØ
36	CDT1311	.008Mf	3500n		6.5u	2.5u	45mØ	2 0 Ø	2.0m	80	.30			P-A	Ge	100J	TO3	CØ
37	CDT1312	.008Mf	3500n		6.5u	2 5u	45mØ	2 0 Ø	2.0m	80	.30			P-A	Ge	100J	TO3	CØ
38	CDT1313	.008Mf	3500n		6 5u	2 5u	45mØ	2.0 Ø	2.0m	80	.30			P-A	Ge	100J	TO3	CØ
39#	ASY48IV	1.2M§	3.5uØ		1.1u	2.1u	300m	500mØ	100mØ	45 †		25p		P-A	Ge	150J	TO1	B
40#	ASY48V	1.2M§	3.5uØ		1 1u	2.1u	300m	500mØ	100mØ	75 †		25p		P-A	Ge	150J	TO1	B
41#	ASY48VI	1.2M§	3.5uØ		1.1u	2.1u	300m	500mØ	100mØ	110 †		25p		P-A	Ge	150J	TO1	B
42#	ASY70IV	1.5M§	3.5uØ		1 1u	2.1u	300m	500mØ	100mØ	45 †		25p		P-A	Ge	150J	TO1	A
43#	ASY70V	1 5M§	3 5uØ		1.1u	2 1u	300m	500mØ	100mØ	75 †		25p		P-A	Ge	150J	TO1	A
44#	ASY70VI	1.5M§	3 5uØ		1.1u	2 1u	300m	500mØ	100mØ	110 †		25p		P-A	Ge	150J	TO1	A
45	2N1759	15.0Mf	3500n				28mØ	2 0 Ø	.50m	105	27			P-A	Ge	95J	F35	
46	2N1760	15 0Mf	3500n				28mØ	2 0 Ø	.50m	105	27			P-A	Ge	95J	F35	
47	JAN2N2528		4000n		3.0u	2 0u	85 Ø	2 0 Ø	3 0mØ	20 △	80m			P	Ge	110J	F4f	CØ
48#	BDY10	10kf	4000nf	250nf	1 5uf	3.0uf	150 Ø	2 0 Ø	200mØ	20 △	350m			N-D	Si	175J	TO3	CØ
49#	BDY11	10kf	4000nf	250nf	1 5uf	3.0uf	150 Ø	2 0 Ø	200mØ	20 △	350m			N-D	Si	175J	TO3	CØ
50	2N3429	20kf△	4000n		4.0u	8 0u	150 Ø	2.0 Ø	5.0 Ø	10 △	200m			N	Si	175J	T52	B
51	2N3430	20kf△	4000n		4 0u	8.0u	150 Ø	2.0 Ø	5.0 Ø	10 △	200m			N	Si	175J	T52	B
52	2N3431	20kf△	4000n		4 0u	8.0u	150 Ø	2 0 Ø	5.0 Ø	10 △	200m			N	Si	175J	T52	B
53	2N3432	20kf△	4000n		4 0u	8.0u	150 Ø	2 0 Ø	5 0 Ø	10 △	200m			N	Si	175J	T52	B
54	2N3433	20kf△	4000n		4.0u	8.0u	150 Ø	2.0 Ø	5.0 Ø	10 △	200m			N	Si	175J	T52	B
55	2N2832	10.0M§△	4000n		6.0u	2.5u	85 Ø	2 0 Ø	1.0mØ	50 △	25m			P	Ge	110C	TO3	CØ
56	2N2833	10.0M§△	4000n		6.0u	2 5u	85 Ø	2 0 Ø	1.0mØ	50 △	25m			P	Ge	110C	TO3	CØ
57	2N2834	10.0M§△	4000n		6.0u	2 5u	85 Ø	2 0 Ø	1.0mØ	50 △	25m			P	Ge	110C	TO3	CØ
58	JAN2N2834	10.0M§△	4000n		6.0u	25u	85 Ø	2.0 Ø	10mØ	25 #△	150m			P	Ge	110J	F4e	CØ
59	2N3846	10.0M§△	4000nØ			7 0uØ	4.0	3.0 Ø	10	10 △	80m	750f☑		N	Si	175C	TO63	Ø
60	2N3847	10.0M§△	4000nØ			7 0uØ	4.0	3 0 Ø	10	10 △	80m	750f☑		N	Si	175C	TO63	Ø
61	2N3848	10.0M§△	4000nØ			7 0uØ	4.0	4.0 Ø	15	10 △	670u	750f☑		N	Si	175C	TO63	Ø
62	2N3849	10.0M§△	4000nØ			7.0uØ	4.0	4 0 Ø	15	10 △	670u	750f☑		N	Si	175C	TO63	Ø
63	2N1755	15.0Mf	4000n				28mØ	2.0 Ø	.50m	52	.23			P-A	Ge	95J	F35	
64	2N1756	15.0Mf	4000n				28mØ	2 0 Ø	.50m	52	.23			P-A	Ge	95J	F35	
65	2N1757	15.0Mf	4000n				28mØ	2 0 Ø	.50m	52	.23			P-A	Ge	95J	F35	
66	2N1758	15 0Mf	4000n				28mØ	2.0 Ø	.50m	52	.23			P-A	Ge	95J	F35	
67	JAN2N3846	35M§☑	4.0uØ			7.0uØ	150 Ø$	3.0 Ø	5.0 Ø	40 #△		750p☑		N	Si	175A	TO63	AØ
68	JAN2N3847	35M§☑	4.0uØ			7.0uØ	150 Ø$	3.0 Ø	5.0 Ø	40 #△		750p☑		N	Si	175A	TO63	AØ
69#	2G103	300M	4000n				150m	5.0	10m	40				P-ME	Ge	100J	TO18	
70	2N463	4 0kf△	4 6uf		4 0uf	1.5uf		2 0 Ø	2.0	27	80m	310p		P-A	Si	100	TO32	AØ
71	2N3795	50M§△	5.0uØ			5uØ	5.0mØ	2 0 Ø	10mØ	12 △	20			P	Si	200J	TO5	AØ
72	1401-0415	500k§△	5.0uØ			10uØ	625 §Ø	4 0 Ø	150 Ø	10 △#				N-D	Si	200J	T14a	C
73	1401-0420	500k§△	5 0uØ			10uØ	625 §Ø	4.0 Ø	200 Ø	10 △#				N-D	Si	200J	T14a	C
74	1401-0425	500k§△	5 0uØ			10uØ	625 §Ø	4.0 Ø	250 Ø	10 #△				N-D	Si	200J	T14a	C
75	1401-0615	500k§△	5.0uØ			10uØ	625 §Ø	4.0 Ø	150 Ø	10 △#				N-D	Si	200J	T14a	C
76	1401-0625	500k§△	5.0uØ			10uØ	625 §Ø	4.0 Ø	250 Ø	10 △#				N-D	Si	200J	T14a	C
77	1401-0815	500k§△	5.0uØ			10uØ	625 §Ø	4.0 Ø	150 Ø	10 △#				N-D	Si	200J	T14a	C
78	1401-0820	500k§△	5 0uØ			10uØ	625 §Ø	4.0 Ø	200 Ø	10 △#				N-D	Si	200J	T14a	C
79	1401-0825	500k§△	5.0uØ			10uØ	625 §Ø	4 0 Ø	250 Ø	10 △#				N-D	Si	200J	T14a	C
80	1401-1015	500k§△	5 0uØ			10uØ	625 §Ø	4.0 Ø	150 Ø	10 △#				N-D	Si	200J	T14a	C
81	1401-1020	500k§△	5.0uØ			10uØ	625 §Ø	4.0 Ø	200 Ø	10 △#				N-D	Si	200J	T14a	C
82	1401-1025	500k§△	5.0uØ			10uØ	625 §Ø	4.0 Ø	250 Ø	10 △#				N-D	Si	200J	T14a	C
83	1401-1215	500k§△	5.0uØ			10uØ	625 §Ø	4.0 Ø	150 Ø	10 △#				N-D	Si	200J	T14a	C
84	1441-0405	50M§△	5000nØ		10uØ		350m♦Ø	4.0 Ø	50 Ø	10 #				N-D	Si	200J	TO114	
85	1441-0407	.50M§△	5000nØ		10uØ		350m♦Ø	4.0 Ø	75 Ø	10 #				N-D	Si	200J	TO114	
86	1441-0410	50M§△	5000nØ		10uØ		350m♦Ø	4.0 Ø	100	10 #				N-D	Si	200J	TO114	
87	1441-0605	50M§△	5000nØ		10uØ		350m♦Ø	4 0 Ø	50 Ø	10 #				N-D	Si	200J	TO114	
88	1441-0607	50M§△	5000nØ		10uØ		350m♦Ø	4.0 Ø	75 Ø	10 #				N-D	Si	200J	TO114	
89	1441-0610	.50M§△	5000nØ		10uØ		350m♦Ø	4.0 Ø	100	10 #				N-D	Si	200J	TO114	
90	1441-0805	.50M§△	5000nØ		10uØ		350m♦Ø	4.0 Ø	50 Ø	10 #				N-D	Si	200J	TO114	
91	1441-0807	.50M§△	5000nØ		10uØ		350m♦Ø	4 0 Ø	75 Ø	10 #				N-D	Si	200J	TO114	
92	1441-0810	50M§△	5000nØ		10uØ		350m♦Ø	4.0 Ø	100	10 #				N-D	Si	200J	TO114	
93	1441-1005	.50M§△	5000nØ		10uØ		350m♦Ø	4.0 Ø	50 Ø	10 #				N-D	Si	200J	TO114	
94	1441-1007	.50M§△	5000nØ		10uØ		350m♦Ø	4 0 Ø	75 Ø	10 #				N-D	Si	200J	TO114	
95	1441-1010	.50M§△	5000nØ		10uØ		350m♦Ø	4.0 Ø	100	10 #				N-D	Si	200J	TO114	
96	1441-1205	.50M§△	5000nØ		10uØ		350m♦Ø	4.0 Ø	50 Ø	10 #				N-D	Si	200J	TO114	
97	1441-1207	50M§△	5000nØ		10uØ		350m♦Ø	4.0 Ø	100	10 #				N-D	Si	200J	TO114	
98	1441-1210	.50M§△	5000nØ		10uØ		350m♦Ø	4.0 Ø	100	10 #				N-D	Si	200J	TO114	
99	RCA29ASDH	800k§△	5.0uØ			15uØ	1.8	10 Ø	200mØ	20 †△	700m#			N-DH	Si	150J	Y220b	XØ
100	RCA29BSDH	800k§△	5 0uØ			15uØ	1.8	10 Ø	200mØ	20 †△	700m#			N-DH	Si	150J	Y220b	XØ
101	RCA29CSDH	800k§△	5.0uØ			15uØ	1.8	10 Ø	200mØ	20 †△	700m#			N-DH	Si	150J	Y220b	XØ
102	RCA29SDH	800k§△	5.0uØ			15uØ	1.8	10 Ø	200mØ	20 †△	700m#			N-DH	Si	150J	Y220b	XØ
103	RCA31ASDH	800k§△	5.0uØ			15uØ	1 8	10 Ø	500mØ	20 †△	400m#			N-DH	Si	150J	Y220b	XØ
104	RCA31BSDH	800k§△	5.0uØ			15uØ	1 8	10 Ø	500mØ	20 †△	400m#			N-DH	Si	150J	Y220b	XØ
105	RCA31CSDH	800k§△	5.0uØ			15uØ	1.8	10 Ø	500mØ	20 †△	400m#			N-DH	Si	150J	Y220b	XØ
106	RCA31SDH	800k§△	5.0uØ			15uØ	1.8	10 Ø	500mØ	20 †△	400m#			N-DH	Si	150J	Y220b	XØ
107	2N3675	1.00M§△	5000n	5.0u	5.0u	5.0u	8.8 Ø	1 0 Ø	1.0mØ	12 △	800m			N	Si	200C	TO5	Ø
108	2N3676	1.00M§△	5000n	5.0u	5.0u	5 0u	8.8 Ø	1.0 Ø	1.0mØ	12 △	800m			N	Si	200C	TO5	Ø
109#	2SD161	1 0M	5.0uf		1.5uf	3.5uf	100 Ø	4.0 Ø	5.0 Ø	30	200m			N-D	Si	175J	TO3	CØ
110	2N1761	15 0Mf	5000n				28mØ	2.0 Ø	.50m	105	.27			P-A	Ge	95J	F35	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	2N2773		7 0uØ			13uØ	200 §		20 Ø	10 Δ				N	Si	175C	T33	A
2	2N2774		7.0uØ			13uØ	200 §	4.0 Ø	20 Ø	10 Δ				N	Si	175C	T33	A
3♦	JAN2N5926		7.0uØ		4.0u	6.0uØ	300 Ø#	4 0 Ø	90 Ø	5.0 Δ#				N	Si	200A	T69d	A
4	JAN2N5927		7.0uØ		4.0u	6.0uØ	300 Ø#	4.0 Ø	120 Ø	5.0 Δ#				N	Si	200A	T69c	B
5	2N5928		7.0u		3.0u		200 §	2.0 Ø	100 Ø	10 Δ#				N	Si	200J	TO114	AØ
6	151-04SPC		7.0uØ			14nØ	100	4.0 Ø	1.5mØ	11 Δ	870m			N-A	Si	150J	T1	B
7	151-06SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-A	Si	150J	T1	B
8	151-08SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-A	Si	150J	T1	B
9	151-10SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-A	Si	150J	T1	B
10	151-12SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-A	Si	150J	T1	B
11	151-14SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-A	Si	150J	T1	B
12	151-16SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-A	Si	150J	T1	B
13	151-18SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-A	Si	150J	T1	B
14	151-20SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-A	Si	150J	T1	B
15	151-22SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-A	Si	150J	T1	B
16	151-26SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-F	Si	150J	T1	
17	151-28SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-F	Si	150J	T1	
18	151-30SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-F	Si	150J	T1	
19	152-04SPC		7.0uØ			14uØ	100 ♦Ø	4.0 Ø	1.5mØ	18 Δ	870m			N-A	Si	150J	T1	B
20	152-06SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	18 Δ	870m			N-A	Si	150J	T1	B
21	152-08SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	18 Δ	870m			N-A	Si	150J	T1	B
22	152-10SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	18 Δ	870m			N-A	Si	150J	T1	B
23	152-12SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	18 Δ	870m			N-A	Si	150J	T1	B
24	152-14SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	18 Δ	870m			N-A	Si	150J	T1	B
25	152-16SPC		7 0uØ			14uØ	100 Ø♦	4 0 Ø	1 5mØ	18 Δ	870m			N-A	Si	150J	T1	B
26	152-18SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	18 Δ	870m			N-A	Si	150J	T1	B
27	152-20SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	18 Δ	870m			N-A	Si	150J	T1	B
28	152-22SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	18 Δ	870m			N-A	Si	150J	T1	B
29	152-26SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5m	18 Δ	830m			N-F	Si	150J	T1	
30	152-28SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5m	18 Δ	830m			N-F	Si	150J	T1	
31	152-30SPC		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5m	18 Δ	830m			N-F	Si	150J	T1	
32	2N4296	20.0M§Δ	7000nØ		10uØ		20mØ	10 Ø	50mØ	150 ☑		6.0p$☑			Si	175	TO66	CØ
33	2N4297	20.0M§Δ	7000nØ		10uØ		20mØ	10 Ø	50mØ	300 ☑		6.0p$☑			Si	175	TO66	CØ
34	2N4298	20.0M§Δ	7000nØ		10uØ		20mØ	10 Ø	50mØ	75 ☑		6.0p$☑			Si	175	TO66	CØ
35	2N4299	20.0M§Δ	7000nØ		10uØ		20mØ	10 Ø	50mØ	150 ☑		6.0p$☑			Si	175	TO66	CØ
36	2N2775		8000nØ		14uØ		.20m§Ø	12 Ø	6.2mØ	20 †Δ	.06			N	Si	175C	T33	A
37	2N2776		8000nØ		14uØ		.20m§Ø	12 Ø	6.2mØ	20 †Δ	.06			N	Si	175C	T33	A
38	2N2777		8000nØ		14uØ		.20m§Ø	12 Ø	6.2mØ	20 †Δ	.06			N	Si	175C	T33	A
39	2N2778		8000nØ		14uØ		.20m§Ø	12 Ø	6.2mØ	20 †Δ	.06			N	Si	175C	T33	A
40	2N2779		8.0uØ			14uØ	200 §	4 0 Ø	25 Ø	10 Δ				N	Si	175C	T33	A
41	2N2780		8.0uØ			14uØ	200 §	4.0 Ø	25 Ø	10 Δ				N	Si	175C	T33	A
42	MP1534		8000nØ		3.0u	5 0u	90 Ø	2.0 Ø	3.0 Ø	35 Δ	400m			P-A	Ge	110J	TO41	CØ
43	MP1535		8000nØ		3.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	35 Δ	400m			P-A	Ge	110J	TO41	CØ
44	MP1536		8000nØ		3.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	35 Δ	400m			P-A	Ge	110J	TO41	CØ
45	MP1537		8000nØ		3.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	35 Δ	400m			P-A	Ge	110J	TO41	CØ
46	MP1538		8000nØ		3.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	35 Δ	400m			P-A	Ge	110J	TO41	CØ
47	2N3863	.50M§Δ	8.0uØ			16uØ	117 Ø	2.0 Ø	3 Ø	30 Δ	.33			N	Si	200C	TO3	CØ
48	2N3864	.50M§Δ	8.0uØ			16uØ	117 Ø	2.0 Ø	3 Ø	30 Δ	.33			N	Si	200C	TO3	CØ
49	2N3865	.50M§Δ	8.0uØ			16uØ	117 Ø	2.0 Ø	3 Ø	30 Δ	.33			N	Si	200C	TO3	CØ
50	JAN2N3772	3.0M§☑	8.0uØ			10uØ	150 Ø	4.0 Ø	10 Ø	10 #Δ		1.2n☑		N	Si	200J	TO3	CØ
51	DTG2000	250k§	9 0uØ			10uØ	60 Øt	2.0 Ø	8.0 Ø	25 Δ	36m			P	Ge	110J	Y204a	CØ
52	DTG2100	250k§	9.0uØ			10uØ	60 Øt	2.0 Ø	8 0 Ø	25 Δ	36m			P	Ge	110J	Y204a	CØ
53	DTG2200	250k§	9.0uØ			10uØ	60 Øt	2.0 Ø	8.0 Ø	25 Δ	36m			P	Ge	110J	Y204a	CØ
54	DTG2300	250k§	9.0uØ			10uØ	60 Øt	2.0 Ø	8.0 Ø	25 Δ	36m			P	Ge	110J	Y204a	CØ
55	DTG2400	250k§	9.0uØ			10uØ	60 Øt	2.0 Ø	8.0 Ø	25 Δ	36m			P	Ge	110J	Y204a	CØ
56	2N4950		9.5u	10uØ	10u	10u	300 Ø#	3.0 Ø	50 Ø	10 Δ#	30 #			N	Si	200C	T69	AØ
57	JAN2N1553A		10u	2.0u	5.0u	30u	90 Ø	2.0 Ø	10 Ø	60 ☑				P	Ge	100J	TO3	CØ
58	JAN2N1554A		10u	2.0u	5.0u	30u	90 Ø	2.0 Ø	10 Ø	60 ☑				P	Ge	100J	TO3	CØ
59	JAN2N1555A		10u	2.0u	5 0u	30u	90 Ø	2 0 Ø	10 Ø	60 ☑				P	Ge	100J	TO3	CØ
60	JAN2N1556A		10u	2.0u	5.0u	30u	90 Ø	2.0 Ø	10 Ø	60 ☑				P	Ge	100J	TO3	CØ
61	JAN2N1557A		10u	2.0u	5.0u	30u	90 Ø	2.0 Ø	5.0 Ø	60 Δ	50m			P	Ge	100J	TO3	CØ
62	JAN2N1558A		10u	2.0u	5.0u	30u	90 Ø	2.0 Ø	5.0 Ø	60 Δ	50m			P	Ge	100J	TO3	CØ
63	JAN2N1559A		10u	2 0u	5.0u	30u	90 Ø	2.0 Ø	5.0 Ø	60 Δ	50m			P	Ge	100J	TO3	CØ
64	JAN2N1560A		10u	2.0u	5.0u	30u	90 Ø	2.0 Ø	5 0 Ø	60 Δ	50m			P	Ge	100J	TO3	CØ
65	JAN2N1651		10u		6.0u	5.0u	100 Ø	1.5 Ø	25 Ø	20 Δ	26m			P	Ge	110S	TO41	CØ
66	JAN2N1652		10u		6.0u	5.0u	100 Ø	1.5 Ø	25 Ø	20 Δ	26m			P	Ge	110S	TO41	CØ
67	JAN2N1653		10u		6.0u	5.0u	100 Ø	1.5 Ø	25 Ø	20 Δ	26m			P	Ge	110S	TO41	CØ
68	2N2294		10uØ			10uØ	60 Ø	5.0 Ø	2.0 Ø	40 Δ	200m			P	Ge	110C	TO41	CØ
69	2N2295		10uØ			10uØ	60 Ø	5.0 Ø	2.0 Ø	40 Δ	200m			P	Ge	110C	TO41	CØ
70	2N2296		10uØ			10uØ	60 Ø	5.0 Ø	2.0 Ø	40 Δ	200m			P	Ge	110C	TO41	CØ
71	2N2526		10u		5.0u	4.0u	85 Ø	12 Ø	500mØ	10 †Δ	80m			P	Ge	110C	F4j	CØ
72	2N2527		10u		5.0u	4.0u	85 Ø	12 Ø	500mØ	10 †Δ	80m			P	Ge	110C	F4j	CØ
73	2N2528		10u		5.0u	4.0u	85 Ø	12 Ø	500mØ	10 †Δ	80m			P	Ge	110C	F4j	CØ
74	2N5578		10uØ			10uØ	150 Ø$	3.0 Ø	40 Ø	10 Δ#	37m#			N	Si	175J	F23	CØ
75	2N6064		10uØ			15uØ	56 Ø	12 Ø	500mØ	10 †Δ	80m			P	Ge	110J	R155	AØ
76	MP600		10u		6.0u	13u	85 Ø	2.0 Ø	5.0 Ø	50 Δ	30m			PADE	Ge	110J	F4r	CØ
77	MP600A		10u		6.0u	13u	85 Ø	2.0 Ø	5.0 Ø	50 Δ	30m			P-D	Ge	110J	F4s	CØ
78	MP601		10u		6.0u	13u	85 Ø	2.0 Ø	5.0 Ø	50 Δ	30m			PADE	Ge	110J	F4r	CØ
79	MP601A		10u		6.0u	13u	85 Ø	2.0 Ø	5.0 Ø	50 Δ	30m			P-D	Ge	110J	F4s	CØ
80	MP602		10u		6.0u	13u	85 Ø	2.0 Ø	5.0 Ø	50 Δ	30m			PADE	Ge	110J	F4r	CØ
81	MP602A		10u		6.0u	13u	85 Ø	2.0 Ø	5.0 Ø	50 Δ	30m			P-D	Ge	110J	F4s	CØ
82	MP603		10u		6.0u	13u	85 Ø	2.0 Ø	5.0 Ø	50 Δ	30m			PADE	Ge	110J	F4r	CØ
83	MP603A		10u		6.0u	13u	85 Ø	2.0 Ø	5.0 Ø	50 Δ	30m			P-D	Ge	110J	F4s	CØ
84	MP1529		10uØ		2.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	20 Δ	500m			P-A	Ge	110J	TO41	CØ
85	MP1530		10uØ		2.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	20 Δ	500m			P-A	Ge	110J	TO41	CØ
86	MP1531		10uØ		2.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	20 Δ	500m			P-A	Ge	110J	TO41	CØ
87	MP1532		10uØ		2.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	20 Δ	500m			P-A	Ge	110J	TO41	CØ
88	MP1533		10uØ		2.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	20 Δ	500m			P-A	Ge	110J	TO41	CØ
89	2N1159	10k†	10u			10u	20 §	2.0 Ø	1.0 Ø	150 ☑	333m			P	Ge	95J	TO3	CØ
90	2N1160	10k†	10u			10u	20 §	2.0 Ø	2.0 Ø	100 ☑	200m			P	Ge	95J	TO3	CØ
91	2N663	15k†Δ	10u		10u		10 Ø♦	2.0 Ø	2.0 Ø	15 Δ	300m			P	Ge	100C	TO3	CØ
92#	2SD459	20k†	10uØ		6.0u	10u	50 Ø	5.0 Ø	5.0 Ø	1.5kΔ	300m				Si	150J	B26b	KE
93#	2SD460	20k†	10uØ		6.0u	10u	50 Ø	5.0 Ø	5.0 Ø	1.5kΔ	300m				Si	150J	B26b	KE
94#	NKT401	.43M	10.0u		7.0u	15u	50 Ø	1.0 Ø	3 Ø	18 Δ	.14	185p		P	Ge	90J	F9c	CØ
95	RCA41ASDH	800k§Δ	10uØ			20uØ	1.8	10 Ø	500mØ	20 †Δ	333m#			N-DH	Si	150J	Y220b	XØ
96	RCA41BSDH	800k§Δ	10uØ			20uØ	1.8	10 Ø	500mØ	20 †Δ	333m#			N-DH	Si	150J	Y220b	XØ
97	RCA41SDH	800k§Δ	10uØ			20uØ	1.8	10 Ø	500mØ	20 †Δ	333m#			N-DH	Si	150J	Y220b	XØ
98	JAN2N3771	3.0M§☑	10uØ			12uØ	150 Ø	4.0 Ø	15 Ø	10 #Δ		1.2n☑		N	Si	200J	TO3	CØ
99	MP2000A	430k§	11uØ			21uØ	106 Ø	2.0 Ø	8.0 Ø	25 Δ	24m			P	Ge	110J	F4r	CØ
100	MP2100A	430k§	11uØ			21uØ	106 Ø	2.0 Ø	8.0 Ø	25 Δ	24m			P	Ge	110J	F4r	CØ
101	MP2200A	430k§	11uØ			21uØ	106 Ø	2.0 Ø	8.0 Ø	25 Δ	24m			P	Ge	110J	F4r	CØ
102	MP2300A	430k§	11uØ			21uØ	106 Ø	2.0 Ø	8.0 Ø	25 Δ	24m			P	Ge	110J	F4r	CØ
103	MP2400A	430k§	11uØ			21uØ	106 Ø	2.0 Ø	8.0 Ø	25 Δ	24m			P	Ge	110J	F4r	CØ
104	2N5435		12u		10u	12u	120 Ø	2.0 Ø	25 Ø	20 Δ				P	Ge	110J	TO3	CØ
105	2N5436		12u		10u	12u	120 Ø	2.0 Ø	25 Ø	20 Δ				P	Ge	110J	TO3	CØ
106	2N5437		12u		10u	12u	120 Ø	2.0 Ø	25 Ø	20 Δ				P	Ge	110J	TO3	CØ
107	2N5438		12u		10u	12u	120 Ø	2.0 Ø	25 Ø	40 Δ				P	Ge	110J	TO3	CØ
108	2N5439		12u		10u	12u	120 Ø	2.0 Ø	25 Ø	40 Δ				P	Ge	110J	TO3	CØ
109	2N5440		12u		10u	12u	120 Ø	2.0 Ø	25 Ø	40 Δ				P	Ge	110J	TO3	CØ
110	DTG600		12u		6.0u	14u	75 Øt	2.0 Ø	5 0 Ø	50 Δ	30m			P	Ge	110J	Y204a	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	2N2132		20uØ			25uØ	250 Ø	4.0 Ø	25 Ø	10 Δ	60m			N	Si	175J	T17	F
2	2N2133		20uØ			25uØ	250 Ø	4.0 Ø	25 Ø	10 Δ	60m			N	Si	175J	T17	F
3	2N5692		20u		8 0u	15u	120 Ø	2.0 Ø	40	10 Δ				P	Ge	110J		
4	2N5693		20u		8.0u	15u	120 Ø	2.0 Ø	40	10 Δ				P	Ge	110J		
5	2N5694		20u		8.0u	15u	120 Ø	2 0 Ø	40	10 Δ				P	Ge	110J		
6	2N5695		20u		8.0u	15u	120 Ø	2.0 Ø	40	10 Δ				P	Ge	110J		
7	2N5696		20u		8.0u	15u	120 Ø	2.0 Ø	40	10 Δ				P	Ge	110J		
8	2N4048	2.0kt Δ	20uØ			100uØ	170 Ø	2 0 Ø	15 Ø	60 Δ#				P	Ge	110J	TO36	CØ
9	2N4049	2.0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	60 Δ#				P	Ge	110J	TO36	CØ
10	2N4050	2.0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	60 Δ#				P	Ge	110J	TO36	CØ
11	2N4051	2.0kt Δ	20uØ			100uØ	170 Ø	2 0 Ø	15 Ø	80 Δ#				P	Ge	110J	TO36	CØ
12	2N4052	2.0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	80 Δ#				P	Ge	110J	TO36	CØ
13	2N4053	2 0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	80 Δ#				P	Ge	110J	TO36	CØ
14	2N4276	2.0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	60 Δ#				P	Ge	110J	TO3	CØ
15	2N4277	2.0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	80 Δ#				P	Ge	110J	TO3	CØ
16	2N4278	2 0kt Δ	20uØ			100uØ	170 Ø	2 0 Ø	15 Ø	60 Δ#				P	Ge	110J	TO3	CØ
17	2N4279	2.0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	80 Δ#				P	Ge	110J	TO3	CØ
18	2N4280	2.0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	60 Δ#				P	Ge	110J	TO3	CØ
19	2N4281	2.0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	80 Δ#				P	Ge	110J	TO3	CØ
20	2N4282	2.0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	60 Δ#				P	Ge	110J	TO3	CØ
21	2N4283	2.0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	80 Δ#				P	Ge	110J	TO3	CØ
22	MP4276	2.0kt Δ	20uØ			100uØ	170 Ø	2 0 Ø	15 Ø	60 Δ#				P	Ge	110J	TO41	CØ
23	MP4277	2.0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	80 Δ#				P	Ge	110J	TO41	CØ
24	MP4278	2.0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	60 Δ#				P	Ge	110J	TO41	CØ
25	MP4279	2 0kt Δ	20uØ			100uØ	170 Ø	2 0 Ø	15 Ø	80 Δ#				P	Ge	110J	TO41	CØ
26	MP4280	2.0kt Δ	20uØ			100uØ	170 Ø	2 0 Ø	15 Ø	60 Δ#				P	Ge	110J	TO41	CØ
27	MP4281	2.0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	80 Δ#				P	Ge	110J	TO41	CØ
28	MP4282	2.0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	60 Δ#				P	Ge	110J	TO41	CØ
29	MP4283	2 0kt Δ	20uØ			100uØ	170 Ø	2.0 Ø	15 Ø	80 Δ#				P	Ge	110J	TO41	CØ
30	2N3132	3 0kt Δ	20uØ			20uØ	90 Ø	2.0 Ø	250mØ	100 Δ	300m			P	Ge	100C	TO3	CØ
31	2N5156	.15M§Δ	20 0u		25u	40u	93 Ø	2.0 Ø	5 Ø	25 Δ	.10			P	Ge	100J	TO3	CØ
32♦#	OC28	200k§	20u		15u	40u	30 Ø	1.0 Ø	6 Ø	15 Δ	60			PA	Ge	90J	TO3	CØ
33♦#	OC35	220k§	20u		15u	40u	30 Ø	1.0 Ø	6 Ø	20 Δ	.60			PA	Ge	90J	TO3	CØ
34♦#	OC36	220k§	20u		15u	40u	30 Ø	1 0 Ø	6 Ø	20 Δ	.60			PA	Ge	90J	TO3	CØ
35♦#	OC29	250k§	20u		15u	40u	30 Ø	1 0 Ø	6 Ø	35 Δ	.60			PA	Ge	90J	TO3	CØ
36	2N375	5.0Mt Δ	20ut		5.0ut	40ut	45 Øt	4.0 Ø	3.0 Ø	22	500m			P	Ge	95J	TO3	CØ
37	2N618	5.0Mt Δ	20ut		5.0ut	40ut	45 tØ	4.0 Ø	3.0 Ø	35	400m			P	Ge	95J	TO3	CØ
38#	ADY26		25uØ			75uØ	100 Ø	12 Ø	1.0 Ø	1.0 tΔ				P-A	Ge	90J	ZA4	Ø
39	2N2728	3.0kt Δ	25u		20u	15u	170 Ø	2.0 Ø	20uØ	40 Δ	2.0m			P	Ge	110C	TO36	CØ
40	2N378	5.0kt Δ	25ut			40ut	25 Ø#	2.0 Ø	2 0 Ø	40 tΔ				PA	Ge	100S	TO3	CØ
41	2N379	5.0kt Δ	25ut			40ut	25 Ø#	2.0 Ø	2.0 Ø	20 tΔ				PA	Ge	100S	TO3	CØ
42	2N459	5.0kt Δ	25ut			40ut	25 Ø#	2.0 Ø	2.0 Ø	20 Δ	60m	5.0pØ		P-A	Ge	100S	TO3	CØ
43	JAN2N2079A	5 0kt Δ	25u			25u	150 Ø	2.0 Ø	12mØ	12 Δ	60m			P	Ge	100S	TO36	CØ
44	2N2490	5.0kΔ	25uØ			15uØ	170 Ø	2.0 Ø	12 Ø	8.0 Δ	58m			P	Ge	110C	TO36	CØ
45	2N2491	5.0kΔ	25uØ			15uØ	170 Ø	2 0 Ø	12 Ø	12 Δ	58m			P	Ge	110C	TO36	CØ
46	2N2492	5.0kΔ	25uØ			15uØ	170 Ø	2.0 Ø	12 Ø	10 Δ	50m			P	Ge	110C	TO36	CØ
47	2N2493	5 0kΔ	25uØ			15uØ	170 Ø	2 0 Ø	12 Ø	10 Δ	41m			P	Ge	110C	TO36	CØ
48#	ASZ15	200k§	25u	2.0u	10u	20u	30 Ø*	1.0 Ø	6.0 Ø	15 Δ	40m	190p$		P	Ge	90J	TO3	CØ
49#	ASZ17	220k§	25u	2.0u	10u	20u	30 Ø*	1.0 Ø	6.0 Ø	20 Δ	40m	190p$		P	Ge	90J	TO3	CØ
50#	ASZ18	220k§	25u	2.0u	10u	20u	30 Ø*	1.0 Ø	6.0 Ø	20 Δ	40m	190p$		P	Ge	90J	TO3	CØ
51#	ASZ16	250k§	25u	2.0u	10u	20u	30 *Ø	1.0 Ø	6.0 Ø	35 Δ	40m	190p$		P	Ge	90J	TO3	CØ
52	2N456		26u			80u	50 Ø	1.5 Ø	1.0 Ø	130	48m			P-A	Ge	95S	TO3	CØ
53	2N457		26u			80u	50 Ø	1.5 Ø	1.0 Ø	130	48m			P-A	Ge	95S	TO3	CØ
54	2N458		26u			80u	50 Ø	1.5 Ø	1.0 Ø	130	48m			P-A	Ge	95S	TO3	CØ
55	2N1667	2.0kt Δ	30u		25u	50u	30 Ø*	2.0 Ø	6.0 Ø	35 Δ	83m			P	Ge	90C	TO3	CØ
56	2N1668	2.0kt Δ	30u		25u	50u	30 Ø*	2 0 Ø	6.0 Ø	20 Δ	83m			P	Ge	90C	TO3	CØ
57	2N1669	2.0kt Δ	30u		25u	50u	30 Ø*	2 0 Ø	6.0 Ø	20 Δ	83m			P	Ge	90C	TO3	CØ
58	2N2446	3.0k§Δ	30uØ			35uØ	90 Ø	2.0 Ø	5.0 Ø	15 Δ	214m			P	Ge	100C	TO3	CØ
59	2N1358A	100kΔ	30u		30u	30u	50 Ø§	2.0 Ø	1.2 Ø	40 Δ	58m			P	Ge	100C	TO36	AØ
60	2N2691	60k§Δ	700u		3.0u	3.0u	100 Ø	1.5 Ø	20 Ø	100 ☑	32m			P	Ge	110C	TO41	CØ
61	2N2691A	.60M§Δ	700u		3.0u	3.0u	170 Ø	1.5 Ø	20mØ	100 #☑	.03			P	Ge	110C	TO41	AØ

13. DARLINGTON TRANSISTORS

IN ORDER OF (1) MIN DERATING FACTOR (2) MIN hFE (3) IC TEST (4) TYPE No.

LINE No.	4 TYPE No.	POL. & MAT. N-NPN P-PNP	1 MIN. DERATE J TO C (W/°C)	hFE 2 MIN Ø-TYP	t-hfe MAX Ø-TYP	TEST VCE ØVCB (V)	3 IC ØIB (A)	ABSOLUTE MAX RATINGS @ 25°C IC Ø-IE (A)	IB Ø-IE (A)	BVCBO (V)	BVEBO (V)	BVCEO ØBVCES §BVCER (V)	MAX COLL (CASE) DISS-Pc (W)	MAX A T °C	MAX ICBO @ MAXVCB @ 25°C (A)	fT (Hz)	MAX SAT RES (Ω)	S T T U R R U E C	DWG No	L C E O A D D E
1▼	BD879	NSi	10mØ	2.0k		10	500m	1.0	100m	100	5 0	80	1.2	§J	100n♦	200M	1.8	PE	TO126	KB
2	2N2724	NSi	10m	7.0k	50k	5.0	10m	40m		80	12	60	1.8	§A	10n	100MΔ	100 #	Ø	TO72	KAØ
3▼	TIS151	NSi	10m	10k#	50k#	5.0	200m	1.0	100m	80 $	12$	55 $	1.2	§S	50nØ	150MΔ	666m#†		R210a	A
4▼	TIS150	NSi	10m	20k#	70k#	5.0	200m	1.0	100m	50 $	12$	40 $	1.2	§S	50nØ	150MΔ	666m#†		R210a	A
5	2N6521	PSi	11m	10k	25k	10	150m	1.0	100m	60	10	40	2.0	§S	10nØ	175MΔ	10		R176c	KAØ
6	2N6522	PSi	11m	20k	50k	10	150m	1.0	100m	60	10	40	2.0	§S	10nØ	175MΔ	10		R176c	KAØ
7	MPSD04	NSi	12m	1.0k	#	5.0	300m	300m			10	25 Ø	1.5	§J	1.0uØ	100MΔ	10m#	†	T092	KC
8	MPSD54	PSi	12m	1.0k	#	5.0	300m	300m			10	25 Ø	1.5	§J	1.0uØ	100MΔ	10m#	†	T092	KC
9	MPSA65	PSi	12m	20k	#	5.0	100m	300m		30	8.0	30 Ø	1.5	§J	100n	175M	15 #	†	T092	KC
10	MPSA66	PSi	12m	40k	#	5.0	100m	300m		30	8.0	30 Ø	1.5	§J	100n	175M	15 #	†	T092	KC
11	2N6549	NSi	16m	15k	150k#	5.0	200m	2.0	100m	50	12	40	2.0 Ø	§J	100nØ	100MΔ	2.0		Y202c	KK
12	2N6548	NSi	16m	25k	150k#	5.0	200m	2.0	100m	50	12	40	2.0 Ø	§J	100nØ	100MΔ	2.0		Y202c	KK
13▼	2N6042	PSi	17m	1.0k	2.0k#	4.0	3.0	8.0	120m	100 †	5.0†	100	2.2 Ø	§J	500u♦	4.0MΔ	500m#		B23a	KEØ
14▼	2N6045	NSi	17m	1.0k	20k#	4 0	3.0	8.0	120m	100 †	5.0†	100	2.2 Ø	§J	500u♦	4.0MΔ			B23	KEØ
15▼	2N6040	PSi	17m	1.0k	2.0k#	4.0	4.0	8.0	120m	60 †	5.0†	60	2.2 Ø	§J	500u♦	4.0MΔ	500m#		B23a	KEØ
16▼	2N6041	PSi	17m	1.0k	2.0k#	4.0	4.0	8.0	120m	80 †	5.0†	80	2.2 Ø	§J	500u♦	4.0MΔ	500m#		B23a	KEØ
17▼	2N6043	NSi	17m	1.0k	20k#	4.0	4.0	8.0	120m	60 †	5.0†	60	2.2 Ø	§J	500u♦	4.0MΔ			B23	KEØ
18▼	2N6044	NSi	17m	1.0k	20k#	4.0	4.0	8.0	120m	80 †	5.0†	80	2.2 Ø	§J	500u♦	4.0MΔ			B23	KEØ
19#	BSR50†	NSi	18m	1.0kØ		10	150m	2.0	100m	60	5.0	45	800mØ	§J	50nØ	350M	1.6 ▼	PL	R221a	B
20#	BSR51†	NSi	18m	1.0kØ		10	150m	2.0	100m	80	5.0	60	800mØ	§J	50nØ	350M	1.6 ▼	PL	R221a	B
21#	BSR60†	PSi	18m	1.0kØ		10	150m	2.0	100m	60	5.0	45	800mØ	§J	50nØ	1.0G	2.2 ▼	PL	R221a	B
22#	BSR61†	PSi	18m	1.0kØ		10	150m	2.0	100m	80	5.0	60	800mØ	§J	50nØ	1.0G	2.2 ▼	PL	R221a	B
23	92PU45	NSi	20m	25k		5.0	200m	2.0	500m	50	12	40 Ø	1.2	§J	100nØ	100MΔ		PL†	B32	KA
24	92PU45A	NSi	20m	25k		5.0	200m	2.0	500m	60	12	50 Ø	1.2	§J	100nØ	100MΔ		PL†	B32	KA
25▼	SDN301	NSi	23m	1.0k		2.0	1.0	2.0				60 ☑	4.0	§J	1.0u☑	50M	750m		TO33	KM
26▼	SDN305	NSi	23m	1.0k		2.0	1.0	2.0				150 ☑	4.0	§J	1.0u☑	50M	1.2		TO33	KM
27▼	SDP351	PSi	23m	1.0k		2.0	1.0	2.0				60 ☑	4.0	§J	1.0u☑	50M	750m		TO33	KM
28▼	SDP355	PSi	23m	1.0k		2.0	1.0	2.0				120 ☑	4.0	§J	1.0u☑	50M	1.2		TO33	KM
29▼	SDN105	NSi	28m	1.0k		2.0	1.0	5.0				150 ☑	5.0	§J	1.0u☑	50M	500m		TO33	KM
30▼	SDP155	PSi	28m	1.0k		2.0	1.0	5.0				120 ☑	5.0	§J	1.0u☑	50M	600m		TO33	KM
31#	BSS50†	NSi	28m	1.5k		10	500m	1.0	100m	60	5.0	45	5.0	§J	50nØ	350M	1.6	PL	TO39	KCØ
32#	BSS51†	NSi	28m	1.5k		10	500m	1.0	100m	80	5.0	60	5.0	§J	50nØ	350M	1.6	PL	TO39	KCØ
33#	BSS52†	NSi	28m	1.5k		10	500m	1.0	100m	100	5.0	80	5.0	§J	50nØ	350M	1.6	PL	TO39	KCØ
34♦#	BCX21†	NSi	28m	2.0k		10	150m	1.0	100m	60	10	45 §	3.5	§J	50n	350M	2.6	PL	TO39	KCØ
35▼	SDN101	NSi	28m	2.0k		2.0	1.0	5.0				80 ☑	5.0	§J	1.0u☑	50M	300m		TO33	KM
36▼	SDP151	PSi	28m	2.0k		2.0	1.0	5.0				80 ☑	5.0	§J	1.0u☑	50M	500m		TO33	KM
37#	BSS60†	PSi	29m	1.5k		10	500m	1.0	100m	60	5.0	45 §	5.0	§J	50nØ	1.0GΔ		PL	TO39	KCØ
38#	BSS61†	PSi	29m	1.5k		10	500m	1.0	100m	80	5.0	60 §	5.0	§J	50nØ	1.0GΔ		PL	TO39	KCØ
39#	BSS62†	PSi	29m	2.0k		10	500m	1.0	100m	100	5.0	80	5.0	§J	50nØ	1.0G	2.8	Δ	TO39	KCØ
40♦	PA7003†	NSi	30m	2.0k#		5.0	5.0	5.0		80 †	12†	80 §*	5.0	§S	1.0u*	50MΔ	440m#		TO5	AØ
41♦	PA7014†	NSi	30m	2.0k#		5.0	5.0	5.0		60 †	12†	60 §*	5.0	§S	1.0u*	50MΔ	440m#		TO5	AØ
42	U2T301†	NSi	40m$	1.0k	10k#	2.0	1.0	2.0	500m		12	60	4.0	§A	1.0u*	50MΔ	750m#	PL	TO33	KD
43	U2T305†	NSi	40m$	1.0k	10k#	2.0	1.0	2.0	500m		12	150	4.0	§A	1.0u*	50MΔ	1.2 #	PL	TO33	KD
44	U2T105†	NSi	50m$	1.0k	10k#	2.0	1.0	5.0	500m		12	150	5.0	§A	1.0u*	50MΔ	500m#	PL	TO33	KD
45	U2T712	N	50m	1.0k		5.0	1.0	2.0	500m		12	200	5.0 $	§S	10u*			PL	TO33	KD
46	U2T713	N	50m	1.0k		5.0	1.0	2.0	500m		12	300	5.0 $	§S	10u*			PL	TO33	KD
47	SDM3303†	NSi	50m	1.0k		5.0	2.5	5.0	500m	60	10	40	5.0 $	§J	1.0u	70M	800m		R176e	
48	SDM3304†	NSi	50m	1.0k		5.0	2.5	5.0	500m	80	10	60	5.0 $	§J	1.0u	70M	800m		R176e	
49	SDM3305†	NSi	50m	1.0k		5.0	2.5	5.0	500m	100	10	80	5.0 $	§J	1.0u	70M	800m		R176e	
50	SDM3403†	PSi	50m	1.0k		5.0	2.5	5.0	500m	60	10	40	5.0 $	§J	1.0u	70M	800m		R176e	
51	SDM3404†	PSi	50m	1.0k		5.0	2.5	5.0	500m	80	10	60	5.0 $	§J	1.0u	70M	800m		R176e	
52	SDM3405†	PSi	50m	1.0k		5.0	2.5	5.0	500m	100	10	80	5.0 $	§J	1.0u	70M	800m		R176e	
53	2N6351†	NSi	50m$	1.0k	10k	5.0	5.0	10	500m	150 †	12	150 §	5.0 Ø	§J		50MΔ	500m		TO33	KDØ
54♦	JAN2N6351†	NSi	50m$	1.0k	10k#	5.0	5.0	5.0	500m	150	12	150 §	5.0 $	§J	1.0u#	50MΔ	300m#		TO33	KDØ
55	SDM3300†	NSi	50m	1.0k		5.0	5.0	5.0	500m	60	10	40	5.0 $	§J	1.0u	70M	600m		R176e	
56	SDM3301†	NSi	50m	1.0k		5.0	5.0	5.0	500m	80	10	60	5.0 $	§J	1.0u	70M	600m		R176e	
57	SDM3302†	NSi	50m	1.0k		5.0	5.0	5.0	500m	100	10	80	5.0 $	§J	1.0u	70M	600m		R176e	
58	SDM3400†	PSi	50m	1.0k		5.0	5.0	5.0	500m	60	10	40	5.0 $	§J	1.0u	70M	600m		R176e	
59	SDM3401†	PSi	50m	1.0k		5.0	5.0	5.0	500m	80	10	60	5.0 $	§J	1.0u	70M	600m		R176e	
60	SDM3402†	PSi	50m	1.0k		5.0	5.0	5.0	500m	100	10	80	5.0 $	§J	1.0u	70M	600m		R176e	
61	U2T101†	NSi	50m$	2.0k	10k#	2.0	1.0	5.0	500m		12	80	5.0	§A	1.0u*	50MΔ	300m#	PL	TO33	KD
62	2N6350†	NSi	50m$	2.0k	10k	5.0	5.0	5.0	500m	80 †	12	80 §	5.0 Ø	§J		50MΔ	300m		TO33	KDØ
63♦	JAN2N6350†	NSi	50m$	2.0k	10k#	5.0	5.0	5.0	500m	80	12	80 §	5.0 $	§J	1.0u#	50MΔ	500m#		TO33	KDØ
64	D40C1	NSi	50m	10k		5.0	200m	500m		30	13	30	6.2	§A	500n	75M		PE	B15b	KC
65	D40C4	NSi	50m	10k		5.0	200m	500m		40	13	40	6.2	§A	500n	75M		PE	B15b	KC
66	D40C7	NSi	50m	10k		5.0	200m	500m		50	13	50	6.2	§A	500n	75M		PE	B15b	KC
67	D40C2	NSi	50m	40k		5 0	200m	500m		30	13	30	6.2	§A	500n	75M		PE	B15b	KC
68	D40C5	NSi	50m	40k		5.0	200m	500m		40	13	40	6.2	§A	500n	75M		PE	B15b	KC
69	D40C8	NSi	50m	40k		5.0	200m	500m		50	13	50	6.2	§A	500n	75M		PE	B15b	KC
70	D40C3	NSi	50m	90k		5.0	200m	500m		30	13	30	6.2	§A	500n	75M		PE	B15b	KC
71#	2SC1882H†	NSi	53m	1.0k	20k	2.0	1.0	5 0	500m	120	12	120	8.0 Ø	§J	1.0u*	50MΔ	500m	E	R90b	KM
72#	2SC1879H†	NSi	53m	1.0k		2.0	2.0	2.0		120	7 0	120	8 0 Ø	§J	100u		750m	E	TO39	KCØ
73♦#	2SC2165H	NSi	53m	1.0k#	20k	5.0	5.0	5.0	1.0	120	7.0	120	8.0	§J	100u		400m#	DEΔ	TO33	KDØ
74▼#	2SD614	NSi	80m	800	10k	4.0	3.0	3.0		100	6.0	80	10	§J	100u			DM	T05	AØ
75▼#	2SD615	NSi	80m	800	10k	4.0	3.0	3.0		140	6.0	120	10	§J	100u			DM	T05	AØ
76	D41K3	PSi	80m	1.0k		5.0	1.0	2.0	100m		13	30	10	§J	20u†		1.5		Y202c	KC
77	D40K3	NSi	80m	1.0k		5.0	1.5	2.0	200m	30	13	30	1.6	§J	500n	75M	1.5	PE	B15b	KC
78	D40K4	NSi	80m	1.0k		5.0	1.5	2.0	200m	50	13	50	1.6	§J	500n	75M	1.5	PE	B15b	KC
79	D41K4	PSi	80m	1.0k		5.0	1.5	2.0	200m	50	13	50	1.6	§J	500n	100M	1.5	PE	B15b	KC
80▼#	RCS683	NSi	80m	1.0k		3.0	2.0	4.0	100m	40	5.0	40 #	10	§J	1.0mΔ	20M	1.0	E	TO39	AØ
81▼#	RCS683A	NSi	80m	1.0k		3.0	2.0	4.0	100m	60	5.0	60 #	10	§J	1.0mΔ	20M	1.0	E	TO39	AØ
82▼#	RCS683B	NSi	80m	1.0k		3.0	2.0	4.0	100m	80	5.0	80 #	10	§J	1.0mΔ	20M	1.0	E	TO39	AØ
83	MPSU45	NSi	80m	4.0k#	12kØ	5.0	1.0	2.0		50	12	40	10	§J	100nØ	320MΔ	1.5	†	B18	KC
84	D40K1	NSi	80m	10k		5.0	200m	1.5		30	13	30	10	§J	500n	75M		PE	B15b	KC
85	D40K2	PSi	80m	10k		5 0	200m	1.5		50	13	50	10	§J	500n	75M		PE	B15b	KC
86	D41K1	PSi	80m	10k#		5.0	200m	2.0		30	13	30	10	§J	20u†	100MΔ	1.0 #	PE	B15b	KC
87	D41K2	PSi	80m	10k#		5.0	200m	2.0		50	13	50	10	§J	20u†	100MΔ	1.0 #	PE	B15b	KC
88▼	TIS144	NSi	80m	10k#	50k#	5 0	200m	1.5	100m	80 $	12$	55 $	10	§S	50nØ	250MΔ	6.0 #		B28	AØ
89	NSD153	NSi	80m	20k		5.0	10m	5.0			12	30 Ø	10	§S	100nØ	100MΔ		PL	Y202a	KCØ
90	NSD154	NSi	80m	20k		5.0	10m	5.0			12	40 Ø	10	§S	100nØ	100MΔ		PL	Y202a	KCØ
91▼	TIS143	NSi	80m	20k#	70k#	5.0	200m	1.5	100m	50 $	12$	40 $	10	§S	50nØ	250MΔ	6.0 #		B28	AØ
92	NSDU45	NSi	80m	25k	150k	5.0	200m	5.0		50	12	40 Ø	10	§S	100nØ	50MΔ		PL	Y202a	AØ
93	NSDU45A	NSi	80m	25k	150k	5.0	200m	2.0		60	12	50 Ø	10	§J	100nØ	100MΔ		PL	Y202a	KA
94	NSD151	NSi	83m	5.0k	250k	5.0	100m	1.0			12	30 Ø	1.7 Ø	§J	100n§	100M		PL†	Y202a	KC
95	NSD152	NSi	83m	5.0k	250k	5.0	100m	1.0			12	40 Ø	1.7 Ø	§J	100n§	100M		PL†	Y202a	KC
96#	BD466A	PSi	85m	8.0k		10	500m	1.0	100m	30	10	30	8.5	♦J	100nØ	170M		PE†	TO126	KBØ
97#	BD466B	PSi	85m	8.0k		10	500m	1.0	100m	45	10	45	8.5	♦J	100nØ	170M		PE†	TO126	KBØ
98#	BD477A	NSi	85m	8.0k		10	500m	1.0	100m	30	10	30	8.5	♦J	100nØ	170M		PE†	TO126	KBØ
99#	BD477B	NSi	85m	8.0k		10	500m	1.0	100m	45	10	45	8.5	♦J	100nØ	170M		PE†	TO126	KBØ
100▼	SDN401	NSi	91m	1.0k		2.0	1.0	2.0				60 ☑	16	§J	1.0u☑	50M	750m		TO66	CØ
101▼	SDN405	NSi	91m	1.0k		2.0	1.0	2.0				150 ☑	16	§J	1.0u☑	50M	1.2		TO66	CØ
102▼	SDP451	PSi	91m	1.0k		2.0	1.0	2.0				60 ☑	16	§J	1.0u☑	50M	750m		TO66	CØ
103▼	SDP455	PSi	91m	1.0k		2.0	1.0	2.0				120 ☑	16	§J	1.0u☑	50M	1.2		TO66	CØ
104#	BDX42†	NSi	100m	1.5k		10	500m	1.0	100m	60	5.0	45	9.0	§J	100nØ	350M	1.6	PL†	TO126	KBØ
105#	BDX43†	NSi	100m	1.5k		10	500m	1.0	100m	80	5.0	60	9.0	§J	100nØ	350M	1.6	PL†	TO126	KBØ
106#	BDX44†	NSi	100m	1.5k		10	500m	1.0	100m	100	5.0	80	9.0	§J	100nØ	350M	1.6	PL†	TO126	KBØ
107#	BDX45†	PSi	100m	1.5k		10	500m	1.0	100m	60	5.0	45 §	5.0 $	§J	100nØ	1.0GΔ	1.6	PL	TO126	KBØ
108#	BDX46†	PSi	100m	1.5k		10	500m	1.0	100m	80	5.0	60 §	5.0 $	§J	100nØ	1.0GΔ	1.6	PL	TO126	KBØ
109#	BDX47	PSi	100m	2.0k			500m	1.0		100		80	9.0 Ø	§J	100n	1.0G	2.6	PL	TO126	KBØ
110#	2SD405	NSi	100m	2.0k	12k	2.0	1.0	2.0		70	7.0	70	15	§J	1.0uØ			E	TO39	KCØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

13. DARLINGTON TRANSISTORS

IN ORDER OF (1) MIN DERATING FACTOR
(2) MIN hFE (3) IC TEST (4) TYPE No.

LINE No.	[4] TYPE No.	POL. & MAT. N-NPN P-PNP	[1] MIN. DERATE J TO C (W/°C)	hFE [2] MIN Ø-TYP	hFE MAX Ø-TYP	t-hfe TEST VCE ØVCB (V)	t-hfe TEST [3] IC ØIB (A)	ABSOLUTE MAX RATINGS @ 25°C IC Ø-IE (A)	IB Ø-IE (A)	BVCBO (V)	BVEBO (V)	BVCEO ØBVCES §BVCER (V)	MAX COLL (CASE) DISS-Pc (W)	MAX T °C	MAX ICBO @ MAXVCB @ 25°C (A)	fT (Hz)	MAX SAT RES (Ω)	ST TU RR UE C	DWG No	LC EO AD DE
1	TIP117†	PSi	400m$	500	#	4.0	2.0	2.0 †	50m	100 †	5.0†	100	50	$J	1.0m♦		1.2 #		B1	KBØ
2	BD677☑	NSi	400m	750 #		3.0	1.5	4.0	100m	60	5.0	60	40	♦J	200u♦	1.0MΔ	1.6 #	†	B16f	KB
3	BD678☑	PSi	400m	750 #		3.0	1.5	4.0	100m	60	5.0	60	40	♦J	200u♦	1.0MΔ	1.6 #	†	B16f	KB
4	BD679☑	NSi	400m	750 #		3.0	1.5	4.0	100m	80	5.0	80	40	♦J	200u♦	1.0MΔ	1.6 #	†	B16f	KB
5	BD680☑	PSi	400m	750 #		3.0	1.5	4.0	100m	80	5.0	80	40	♦J	200u♦	1.0MΔ	1.6 #	†	B16f	KB
6	MJE700	PSi	400m	750	#	3.0	1.5	4.0	100m	60	5.0	60 *	40	♦J	200m♦	1.0MΔ	1.6 #	†	B16e	KB
7	MJE702	PSi	400m	750	#	3.0	1.5	4.0	100m	80	5.0	80 *	40	♦J	200m♦	1.0MΔ	1.6 #	†	B16e	KB
8	MJE800	NSi	400m	750	#	3.0	1.5	4.0	100m	60	5.0	60 *	40	♦J	200m♦	1.0MΔ	1.6 #	†	B16e	KB
9	MJE802	NSi	400m	750	#	3.0	1.5	4.0	100m	80	5.0	80 *	40	♦J	200m♦	1.0MΔ	1.6 #	†	B16e	KB
10	BD675A	NSi	400m	750 #		3.0	2.0	4.0	100m	45	5.0	45	40	♦J	200u♦	1.0MΔ	1.4 #	†	B16f	KB
11	BD676A	PSi	400m	750 #		3.0	2.0	4.0	100m	45	5.0	45	40	♦J	200u♦	1.0MΔ	1.4 #	†	B16f	KB
12	BD677A	NSi	400m	750 #		3.0	2.0	4.0	100m	60	5.0	60	40	♦J	200u♦	1.0MΔ	1.4 #	†	B16f	KB
13	BD678A	PSi	400m	750 #		3.0	2.0	4.0	100m	60	5.0	60	40	♦J	200u♦	1.0MΔ	1.4 #	†	B16f	KB
14	BD679A	NSi	400m	750 #		3.0	2.0	4.0	100m	80	5.0	80	40	♦J	200u♦	1.0MΔ	1.4 #	†	B16f	KB
15	BD680A	PSi	400m	750 #		3.0	2.0	4.0	100m	80	5.0	80	40	♦J	200u♦	1.0MΔ	1.4 #	†	B16f	KB
16	MJE701	PSi	400m	750	#	3.0	2.0	4.0	100m	60	5.0	60 *	40	♦J	200m♦	1.0MΔ	1.4 #	†	B16e	KB
17	MJE703	PSi	400m	750	#	3.0	2.0	4.0	100m	80	5.0	80 *	40	♦J	200m♦	1.0MΔ	1.4 #	†	B16e	KB
18	MJE801	NSi	400m	750	#	3.0	2.0	4.0	100m	60	5.0	60 *	40	♦J	200m♦	1.0MΔ	1.4 #	†	B16e	KB
19	MJE803	NSi	400m	750	#	3.0	2.0	4.0	100m	80	5.0	80 *	40	♦J	200m♦	1.0MΔ	1.4 #	†	B16e	KB
20#	ESM213	NSi	400m	750	#	3.0	4.0	5.0	100m	60	5.0	60	50 Ø	$J	200u	1.0MΔ	666m	E	Y220b	
21#	ESM214	NSi	400m	750	#	3.0	4.0	5.0	100m	80	5.0	80	50 Ø	$J	200u	1.0MΔ	666m	E	Y220b	
22#	ESM259	PSi	400m	1.0k	#	3.0	4.0	5.0 †	100m	60 †	5.0	60	50	$J	200u	1.0MΔ	666m	E	Y220b	
23#	ESM260	PSi	400m	1.0k	#	3.0	4.0	5.0 †	100m	80 †	5.0	80	50	$J	200u	1.0MΔ	666m	E	Y220b	
24	D44E1†	NSi	400m	1.0k#		5.0	5.0	10		40	7.0	40	50	$J	10u§		666m#	PE	B22	KE
25	D44E2†	NSi	400m	1.0k#		5.0	5.0	10		60	7.0	60	50	$J	10u§		666m#	PE	B22	KE
26	D44E3†	NSi	400m	1.0k#		5.0	5.0	10		80	7.0	80	50	$J	10u§		666m#	PE	B22	KE
27	D45E1†	PSi	400m	1.0k#		5.0	5.0	10		40	7.0	40	50	$J	10u§		666m#	PE	B22	KE
28	D45E2†	PSi	400m	1.0k#		5.0	5.0	10		60	7.0	60	50	$J	10u§		666m#	PE	B22	KE
29	D45E3†	PSi	400m	1.0k#		5.0	5.0	10		80	7.0	80	50	$J	10u§		666m#	PE	B22	KE
30#	2SC1884H†	NSi	400m	1.0k		2.0	8.0	8.0		120	7.0	120	50 Ø	$J	100u		187m	D	TO66	KF
31#	2SD459†	Si	400m	1.5k	5 0kØ	5.0	5.0	7.0	500m	80	4.0	80	50	$J	100u	20k$	300m		B26b	KE
32#	2SD460†	Si	400m	1.5k	5 0kØ	5.0	5.0	7.0	500m	100	4.0	100	50	$J	100u	20k$	300m		B26b	KE
33#	2SD643*	N	416m	150		5.0	30	30	2.0	300	5.0	200	300	$J	600u			DMΔ	F44	CØ
34#	2SD644*	N	416m	150		5.0	30	30	2 0	600	5.0	450	300	$J	600u			DMΔ	F44	CØ
35▼	2N6298	PSi	428m	750	18k#	3.0	4.0	8.0	120m	60 †	5.0†	60	75	§J	500uΔ♦	4.0MΔ			TO66	KFØ
36▼	2N6299	PSi	428m	750	18k#	3.0	4.0	8.0	120m	80 †	5.0†	80	75	§J	500uΔ♦	4.0MΔ			TO66	KFØ
37▼	2N6300	NSi	428m	750	18k#	3.0	4.0	8.0	120m	60 †	5 0†	60	75	§J	500uΔ♦	4.0MΔ			TO66	KFØ
38▼	2N6301	NSi	428m	750	18k#	3.0	4.0	8.0	120m	80 †	5.0†	80	75	§J	500uΔ♦	4.0MΔ			TO66	KFØ
39	MJ4000	NSi	428m	1.0k		3.0	1.5	4.0	50m	60	5.0	60	75	§J	200u♦				TO3	KFØ
40	MJ4001	NSi	428m	1.0k		3 0	1.5	4.0	50m	80	5.0	80	75	§J	200u♦				TO3	KFØ
41	MJ4010	PSi	428m	1.0k		3.0	1 5	4.0	50m	60	5.0	60	75	§J	200u♦				TO3	KFØ
42	MJ4011	PSi	428m	1.0k		3 0	1.5	4.0	50m	80	5.0	80	75	§J	200u♦				TO3	KFØ
43♦#	BD266	PSi	480m	750		3.0	3.0	8.0		60		60	60	$J		7.0M		E	Y220b	KEØ
44♦#	BD266A	PSi	480m	750		3.0	3.0	8.0		80		80	60	$J		7.0M		E	Y220b	KEØ
45♦#	BD267	NSi	480m	750		3.0	3.0	8.0		80		60	60	$J		7.0M		E	Y220b	KEØ
46♦#	BD267A	NSi	480m	750		3.0	3.0	8 0		100		80	60	$J		7.0M		E	Y220b	KEØ
47♦#	BD267B	NSi	480m	750		3.0	3.0	8 0		120		100	60	$J		7.0M		E	Y220b	KEØ
48♦#	BD331	NSi	480m	750		3 0	3.0	6.0	150m	60	5.0	60	60 Ø	$J	200u	7.0M	666m		B13	KE
49♦#	BD332	PSi	480m	750		3.0	3 0	6.0	150m	60	5.0	60	60 Ø	$J	200u	7.0M	666m		B13	KE
50♦#	BD333	NSi	480m	750		3.0	3.0	6.0	150m	80	5.0	80	60 Ø	$J	200u	7.0M	666m		B13	KE
51♦#	BD334	PSi	480m	750		3.0	3 0	6.0	150m	80	5.0	80	60 Ø	$J	200u	7.0M	666m		B13	KE
52♦#	BD335	NSi	480m	750		3.0	3.0	6.0	150m	100	5.0	100	60 Ø	$J	200u	7.0M	666m		B13	KE
53#	BD336	PSi	480m	750			3.0	6.0		100		100	60 Ø	$J	200u	7 0M	666m		B13	KE
54	NSP695	NSi	480m	750		3.0	3 0	8 0	100m	45	5.0	45	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
55	NSP696	PSi	480m	750		3.0	3 0	8.0	100m	45	5.0	45	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
56	NSP697	NSi	480m	750		3.0	3.0	8 0	100m	60	5 0	60	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
57	NSP698	PSi	480m	750		3.0	3 0	8.0	100m	60	5.0	60	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
58	NSP699	NSi	480m	750		3 0	3.0	8.0	100m	80	5.0	80	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
59	NSP700	PSi	480m	750		3.0	3.0	8.0	100m	80	5.0	80	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
60	NSP701	NSi	480m	750		3.0	3.0	8.0	100m	100	5.0	100	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
61	NSP702	PSi	480m	750		3.0	3.0	8.0	100m	100	5.0	100	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
62	NSP2090	PSi	480m	750		3.0	3.0	8.0	100m	60	5.0	60	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
63	NSP2092	PSi	480m	750		3 0	3.0	8.0	100m	80	5.0	80	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
64	NSP2100	NSi	480m	750		3.0	3.0	8 0	100m	60	5.0	60	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
65	NSP2102	NSi	480m	750		3.0	3.0	8.0	100m	80	5.0	80	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
66	NSP695A	NSi	480m	750		3.0	4.0	8.0	100m	45	5.0	45	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
67	NSP696A	PSi	480m	750		3.0	4.0	8.0	100m	45	5.0	45	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
68	NSP697A	NSi	480m	750		3.0	4.0	8.0	100m	60	5.0	60	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
69	NSP698A	PSi	480m	750		3 0	4.0	8.0	100m	60	5.0	60	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
70	NSP699A	NSi	480m	750		3 0	4.0	8.0	100m	80	5.0	80	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
71	NSP700A	PSi	480m	750		3 0	4.0	8.0	100m	80	5.0	80	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
72	NSP2091	PSi	480m	750		3 0	4.0	8.0	100m	60	5.0	60	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
73	NSP2093	PSi	480m	750		3.0	4.0	8.0	100m	80	5.0	80	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
74	NSP2101	NSi	480m	750		3.0	4.0	8.0	100m	60	5 0	60	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
75	NSP2103	NSi	480m	750		3.0	4.0	8.0	100m	80	5.0	80	60 Ø	$J	200u	1.0MΔ		EM†	Y220b	KD
76♦#	BD645	NSi	500m	750		3.0	3.0	8.0			5.0	60	62	$J	200u	100k	666m#	E†	Y220b	DØ
77♦#	BD646	PSi	500m	750		3 0	3.0	8.0			5.0	60	62	$J	200u	100k	666m#	E†	Y220b	DØ
78♦#	BD647	NSi	500m	750		3.0	3 0	8 0			5.0	80	62	$J	200u	100k	666m#	E†	Y220b	DØ
79♦#	BD648	PSi	500m	750		3.0	3.0	8.0			5.0	80	62	$J	200u	100k	666m#	E†	Y220b	DØ
80♦#	BD649	NSi	500m	750		3.0	3.0	8.0			5.0	100	62	$J	200u	100k	666m#	E†	Y220b	DØ
81♦#	BD650	PSi	500m	750		3.0	3.0	8.0			5.0	100	62	$J	200u	100k	666m#	E†	Y220b	DØ
82#	BD651	NSi	500m	750			3.0	12		140	5.0	120	62		200u♦	7.0M	666m▼	E	Y220b	DØ
83#	BD652	PSi	500m	750			3.0	12		120	5.0	120	62		200u♦	7.0M	666m▼	E	Y220b	DØ
84♦#	BD643	NSi	500m	750		3.0	4.0	8.0	150m		5.0	45	62	$J	200u	100M	500m		Y220b	KEØ
85♦#	BD644	PSi	500m	750		3.0	4.0	8.0	150m	45	5.0	45	62	$J	200u	100M	500m		Y220b	KEØ
86	RCA1000	NSi	515m	750		3.0	4.0	8.0	100m	60	5.0	60 *	90	§J	500uΔ♦		666m#	E	TO3	KFØ
87	RCA1001	NSi	515m	750		3.0	4.0	8.0	100m	80	5.0	80 *	90	§J	500uΔ♦		666m#	E	TO3	KFØ
88#	BDX62	PSi	515m	750 Ø		3.0	8.0	8.0	150m	60	5.0	60	90	§J	200u	7.0M	666m	E	TO3	KFØ
89#	BDX62A	PSi	515m	750 Ø		3.0	8.0	8.0	150m	80	5 0	80	90	§J	200u	7.0M	666m	E	TO3	KFØ
90#	BDX62B	PSi	515m	750 Ø		3.0	8.0	8.0	150m	100	5.0	100	90	§J	200u	7.0M	666m	E	TO3	KFØ
91♦#	BDX63	NSi	515m	750 Ø		3.0	8.0	8 0	150m	80	5.0	60	90	§J	200uØ	7.0M	666m	E	TO3	KFØ
92♦#	BDX63A	NSi	515m	750 Ø		3.0	8.0	8.0	150m	100	5 0	80	90	§J	200uØ	7.0M	666m	E	TO3	KFØ
93♦#	BDX63B	NSi	515m	750 Ø		3.0	8.0	8.0	150m	120	5.0	100	90	§J	200uØ	7.0M	666m	E	TO3	KFØ
94#	BDX62C	PSi	515m	1 0kØ			3 0	12		120		120	90	§J	200u♦	7.0M	666m▼	E	TO3	CØ
95#	BDX63C	NSi	515m	1.0kØ			3.0	12		140		120	90	§J	200u♦	7.0M	666m▼	E	TO3	CØ
96	IR900	PSi	515m	1.0k#		3.0	4.0	8.0	100m	60	5.0	60 *	90	§J	500u♦△		666m		TO3	KFØ
97	IR901	PSi	515m	1.0k#		3.0	4.0	8.0	100m	80	5.0	80 *	90	§J	500u♦△		666m		TO3	KFØ
98	IR1000	NSi	515m	1.0k#		3.0	4.0	8.0	100m	60	5.0	60 *	90	§J	500u♦△		666m		TO3	KFØ
99	IR1001	NSi	515m	1.0k#		3.0	4.0	8.0	100m	80	5.0	80 *	90	§J	500u♦△		666m		TO3	KFØ
100	MJ900	PSi	515m	1.0k	#	3.0	4.0	8.0	100m	60	5.0	60 *	90	§J	500uΔ♦		666m		TO3	KFØ
101	MJ901	PSi	515m	1.0k	#	3.0	4.0	8.0	100m	80	5.0	80 *	90	§J	500uΔ♦		666m		TO3	KFØ
102	MJ1000	NSi	515m	1.0k	#	3.0	4.0	8.0	100m	60	5.0	60 *	90	§J	500uΔ♦		666m		TO3	KFØ
103	MJ1001	NSi	515m	1.0k	#	3.0	4.0	8 0	100m	80	5.0	80 *	90	§J	500uΔ♦		666m		TO3	KFØ
104	2N6530	NSi	520m$	100	5.0k#	3.0	8.0	8.0 †	250m	80 †	5.0†		26	$J		20MΔ	375m#		Y220b	KE
105	2N6531	NSi	520m$	100	5.0k#	3.0	8.0	8.0 †	250m	100 †	5.0†		26	$J		20MΔ	375m#		Y220b	KE
106	2N6532	NSi	520m$	100	5.0k#	3.0	8 0	8.0 †	250m	100 †	5.0†		26	$J		20MΔ	375m#		Y220b	KE
107	2N6533	NSi	520m$	100	5.0k#	3.0	8 0	8.0 †	250m	120 †	5.0†		26	$J		20MΔ	375m#		Y220b	KE
108	RCA120	NSi	520m	1.0k#		3.0	3.0	8.0	250m	60	5.0	60 ☑	65	$J	200u♦	20MΔ	666m#	E	Y220b	KHØ
109	RCA121	NSi	520m	1.0k#		3.0	3.0	8.0	250m	80	5 0	80 ☑	65	$J	200u♦	20MΔ	666m#	E	Y220b	KHØ
110	RCA122	NSi	520m	1.0k#		3.0	3.0	8 0	250m	100	5.0	100 ☑	65	$J	200u♦	20MΔ	666m#	E	Y220b	KHØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

13. DARLINGTON TRANSISTORS

IN ORDER OF (1) MIN DERATING FACTOR
(2) MIN hFE (3) IC TEST (4) TYPE No.

LINE No.	4 TYPE No.	POL. & MAT. N-NPN P-PNP	1 MIN. DERATE J TO C (W/°C)	hFE 2 MIN Ø-TYP	hFE MAX Ø-TYP	t-hfe TEST VCE ØVCB (V)	t-hfe TEST 3 IC ØIB (A)	ABSOLUTE MAX RATINGS @ 25°C IC Ø-IE (A)	IB Ø-IE (A)	BVCBO (V)	BVEBO (V)	BVCEO ØBVCES §BVCER (V)	MAX COLL (CASE) DISS-Pc (W)	MAX TEMP °C	MAX ICBO @ MAXVCB @ 25°C (A)	fT (Hz)	MAX SAT RES (Ω)	S T T U R R U E C	DWG No	L C E O A D D E
1#	BDX85A	NSi	571m	750	18k	3 0	4 0	10	100m	60	5 0	60	100	§J	500u	10M	666m	E	TO3	
2#	BDX85B	NSi	571m	750	18k	3.0	4.0	10	100m	80	5 0	80	100	§J	500u	10M	666m	E	TO3	CØ
3#	BDX85C	NSi	571m	750	18k	3.0	4 0	10	100m	100	5 0	100	100	§J	500u	10M	666m	E	TO3	CØ
4#	BDX86	PSi	571m	750	18k	3.0	4.0	10	100m	45	5 0	45	100	§J	500u	10M	666m	E	TO3	CØ
5#	BDX86A	PSi	571m	750	18k	3.0	4.0	10	100m	60	5.0	60	100	§J	500u	10M	666m	E	TO3	CØ
6#	BDX86B	PSi	571m	750	18k	3 0	4 0	10	100m	80	5.0	80	100	§J	500u	10M	666m	E	TO3	CØ
7#	BDX86C	PSi	571m	750	18k	3.0	4 0	10	100m	100	5.0	100	100	§J	500u	10M	666m	E	TO3	CØ
8▼	AD7501		571m	750 #		5.0	15	15	2.0		12	60 ☑*	100	§J	500u*		266m#			
9▼	JAN2N6383†	NSi	571m	1.0k	20k#	3.0	5 0	10	250m	40	5.0	40	100	§J	1.0m	20MΔ	400m#		TO3	CØ
10▼	JAN2N6384†	NSi	571m	1.0k	20k#	3 0	5.0	10	250m	60	5.0	60	100	§J	1 0m	20MΔ	400m#		TO3	CØ
11▼	JAN2N6385†	NSi	571m	1.0k	20k#	3.0	5 0	10	250m	80	5.0	80	100	§J	1.0m	20MΔ	400m#		TO3	CØ
12	RCA8350	PSi	571m	1.0k	20k#	3.0	5.0	10	250m	40	5.0	40 ☑	70	§J	1.0mΔ♦	20MΔ	400m#		TO3	KFØ
13	RCA8350A	PSi	571m	1.0k	20k#	3 0	5.0	10	250m	60	5.0	60 ☑	70	§J	1.0mΔ♦	20MΔ	400m#		TO3	KFØ
14	RCA8350B	PSi	571m	1.0k	20k#	3.0	5.0	10	250m	80	5.0	80 ☑	70	§J	1.0mΔ♦	20MΔ	400m#		TO3	KFØ
15	SDM21301†	PSi	571m	1 0k		5 0	5.0	5.0	2.0		5.0	60 §	100	§J	500u*	10M	350m		F4q	KCØ
16	SDM21302†	PSi	571m	1.0k		5.0	5.0	5 0	2.0		5.0	80 §	100	§J	500u*	10M	350m		F4q	KCØ
17	SDM21303†	PSi	571m	1.0k		5 0	5.0	5.0	2.0		5.0	100 §	100	§J	500u*	10M	350m		F4q	KCØ
18	SDM21304†	PSi	571m	1 0k		5 0	5.0	5.0	2.0		5.0	120 §	100	§J	500u*	10M	350m		F4q	KCØ
19	SDM21311†	PSi	571m	1.0k		5.0	10	10	2.0		5.0	60 §	100	§J	500u*	10M	270m		F4q	KCØ
20	SDM21312†	PSi	571m	1.0k		5.0	10	10	2.0		5.0	80 §	100	§J	500u*	10M	270m		F4q	KCØ
21	SDM21313†	PSi	571m	1.0k		5 0	10	10	2.0		5.0	100 §	100	§J	500u*	10M	270m		F4q	KCØ
22	SDM21314†	PSi	571m	1.0k		5.0	10	10	2.0		5.0	120 §	100	§J	500u*	10M	270m		F4q	KCØ
23	U2T832	N	588m	1.0k		5.0	3 0	5 0	500m		12	200	60 $	§S	10u*			PL	F30	KJØ
24	U2T833	N	588m	1.0k		5.0	3.0	5 0	500m		12	300	60 $	§S	10u*			PL	F30	KJØ
25▼	MJE6042*	PSi	600m	1 0k	20k	4 0	3.0	8.0	120m	100	5.0	100	75	§J	500u	4.0MΔ	666m	Δ	B5	B
26▼	MJE6045	NSi	600m	1 0k	20k	4.0	3.0	8.0	120m	100	5.0	100	75	§J	500u	4.0MΔ	666m	Δ	B5	B
27▼	MJE6040*	PSi	600m	1.0k	20k	4 0	4.0	8 0	120m	60	5.0	60	75	§J	500u	4.0MΔ	500m	Δ	B5	B
28▼	MJE6041*	PSi	600m	1.0k	20k	4.0	4.0	8.0	120m	80	5.0	80	75	§J	500u	4.0MΔ	500m	Δ	B5	B
29▼	MJE6043	NSi	600m	1.0k	20k	4.0	4.0	8.0	120m	60	5 0	60	75	§J	500u	4.0MΔ	500m	Δ	B5	B
30▼	MJE6044	NSi	600m	1.0k	20k	4.0	4 0	8.0	120m	80	5.0	80	75	§J	500u	4.0MΔ	500m	Δ	B5	B
31	STI4046	NSi	600m	1.4k		5.0	3.0	10	1.0	600	5.0	600	75	§J	250u	30		PL	TO3	
32▼#	2SD605	NSi	640m	200	1.0k	2.0	4.0	7.0		600	6.0	500	80	§J	500u			DM	TO3	CØ
33♦#	2SD650H	NSi	640m	500 #		2 0	4.0	6.0		400	7.0	400	80	§J	5.0u		250m	D	TO3	KCØ
34▼	TIP100†	NSi	640m	1.0k#	20k#	4 0	3.0	15 #	1.0	60	5.0	60 $	80	$S	50u		666m#	†	B1	BØ
35▼	TIP101†	NSi	640m	1.0k#	20k#	4.0	3.0	15 #	1.0	80	5.0	80 $	80	$S	50u		666m#	†	B1	BØ
36▼	TIP102†	NSi	640m	1.0k#	20k#	4.0	3.0	15 #	1.0	100	5.0	100 $	80	$S	50u		666m#	†	B1	BØ
37▼	TIP105†	PSi	640m	1.0k#	20k#	4.0	3.0	15 #	1.0	60	5.0	60 $	80	$S	50u		666m#	†	B1	BØ
38▼	TIP106†	PSi	640m	1.0k#	20k#	4.0	3.0	15 #	1.0	80	5.0	80 $	80	$S	50u		666m#	†	B1	BØ
39▼	TIP107†	PSi	640m	1.0k#	20k#	4.0	3 0	15 #	1.0	100	5.0	100 $	80	$S	50u		666m#	†	B1	BØ
40#	2SB638H	PSi	640m	1.0k	20k#	3.0	5.0	10	2.0	100	7.0	100	80	$J	100u		400m	DEΔ	TO3	AØ
41#	2SD472H†	NSi	640m	1 0k		2.0	5.0	10		150	7.0	100	80 Ø	$J	100u		150m	D	TO3	KFØ
42#	2SD628H	NSi	640m	1 0k	20k#	3.0	5.0	10	2.0	100	7.0	100	80	$J	100u		300m	DEΔ	TO3	AØ
43#	2SD411	NSi	640m	1.0k		2.0	10	10		100	8.0	80	80	$J	100uØ			EM	TO3	KFØ
44#	2SB615	PSi	640m	2.0k		4.0	1.0	7 0		110	5.0	110	80	$J			450m		TO3	KFØ
45▼#	2SB685	PSi	640m	2.0k	24k	4.0	1.0	7.0		110	5.0	110	80	$J	100u		430m		B35	XØ
46#	2SD585	NSi	640m	2.0k		4.0	1.0	7.0		110	5.0	110	80	$J			450m		TO3	KFØ
47▼#	2SD715	NSi	640m	2.0k	24k	4 0	1 0	7.0		110	5.0	110	80	$J	100u		430m		B35	XØ
48	SDM3003*	CSi	666m	1.0k		5.0	2.5			60 $	10$	40 $	115		50u	40M	800m			
49	SDM3004*	CSi	666m	1.0k		5 0	2 5			80 $	10$	60 $	115		50u	40M	800m			
50	SDM3005*	CSi	666m	1.0k		5.0	2 5			100 $	10$	80 $	115		50u	40M	800m			
51#	BDX64C	PSi	666m	1 0kØ			5.0	16		120		120	117	§J	400u♦	7.0M	500m▼	E	TO3	CØ
52#	BDX65C	NSi	666m	1.0kØ			5.0	16		140		120	117	§J	400u♦	7.0M	500m▼	E	TO3	CØ
53#	BDX64	PSi	666m	1.5kØ		3.0	10	12	200m	60	5.0	60	117	§J	400u	7.0M	500m	E	TO3	KFØ
54#	BDX64A	PSi	666m	1.5kØ		3.0	10	12	200m	80	5.0	80	117	§J	400u	7.0M	500m	E	TO3	KFØ
55#	BDX64B	PSi	666m	1.5kØ		3 0	10	12	200m	100	5.0	100	117	§J	400u	7.0M	500m	E	TO3	KFØ
56#	BDX65	NSi	666m	1 5kØ		3.0	10	12	200m	80	5.0	60	117	§J	400uØ	7.0M	500m	E	TO3	KFØ
57#	BDX65A	NSi	666m	1.5kØ		3.0	10	12	200m	100	5.0	80	117	§J	400uØ	7.0M	500m	E	TO3	KFØ
58#	BDX65B	NSi	666m	1 5kØ		3 0	10	12	200m	120	5.0	100	117	§J	400uØ	7.0M	500m	E	TO3	KFØ
59	SDM3000*	CSi	666m	10k		5.0	1 0			60 $	10$	40 $	115		50u	50M	400m			
60	SDM3001*	CSi	666m	10k		5.0	1 0			80 $	10$	60 $	115		50u	50M	400m			
61	SDM3002*	CSi	666m	10k		5.0	1 0			100 $	10$	80 $	115		50u	50M	400m			
62	PMD13K40	PSi	667m	800	20k	3 0	4.0	8.0	120m	40	5.0	40	100 #	§J	200uΔ		500m	P-E	TO3	CØ
63	PMD13K60	PSi	667m	800	20k	3.0	4.0	8 0	120m	60	5.0	60	100 #	§J	200uΔ		500m	P-E	TO3	CØ
64	PMD13K80	PSi	667m	800	20k	3.0	4.0	8.0	120m	80	5.0	80	100 #	§J	200uΔ		500m	P-E	TO3	CØ
65	PMD13K100	PSi	667m#	800	20k	3.0	4 0	8.0	120m	100	5.0	100	100 #	§J	200uΔ		500m	P-E	TO3	CØ
66	PMD12K40	NSi	667m	1.0k	20k	3.0	4.0	8.0	120m	40	5.0	40	100 #	§J	200uΔ		500m	N-E	TO3	CØ
67	PMD12K60	NSi	667m	1.0k	20k	3.0	4.0	8.0	120m	60	5.0	60	100 #	§J	200uΔ		500m	N-E	TO3	CØ
68	PMD12K80	NSi	667m	1.0k	20k	3.0	4.0	8.0	120m	80	5.0	80	100 #	§J	200uΔ		500m	N-E	TO3	CØ
69	PMD12K100	NSi	667m#	1.0k	20k	3.0	4.0	8.0	120m	100	5.0	100	100 #	§J	200uΔ		500m	N-E	TO3	CØ
70▼	SDN6251	NSi	672m	140		5.0	3.0	10				400 ☑	84	§J	1.0mΔ		300m		TO3	CØ
71▼	SDN6252	NSi	672m	140		5 0	3.0	10				450 ☑	84	§J	1.0mΔ		300m		TO3	CØ
72▼	SDN6253	NSi	672m	140		5 0	3 0	10				500 ☑	84	§J	1.0mΔ		300m		TO3	CØ
73	MJ920*	PSi	680m	100		3.0	8.0	8.0	120m	60	5.0	60	120	§J	500uΔ♦	4.0MΔ	500m		F26	KDØ
74	MJ921*	PSi	680m	100		3.0	8.0	8.0	120m	80	5.0	80	120	§J	500uΔ♦	4.0MΔ	500m		F26	KDØ
75	MJ1200*	NSi	680m	100		3.0	8.0	8.0	120m	60	5.0	60	120	§J	500uΔ♦	4.0MΔ	500m		F26	KDØ
76	MJ1201*	NSi	680m	100		3.0	8.0	8.0	120m	80	5.0	80	120	§J	500uΔ♦	4.0MΔ	500m		F26	KDØ
77	2N6576†	NSi	685m	500	5.0k	3.0	10	15 #	250m#	60	7 0	60	120	§J	500u♦	4.0MΔ	280m		TO3	CØ
78	2N6577†	NSi	685m	500	5.0k	3.0	10	15 #	250m#	90	7.0	90	120	§J	500u♦	4.0MΔ	280m		TO3	CØ
79	2N6578†	NSi	685m	500	5.0k	3.0	10	15 #	250m#	120	7.0	120	120	§J	500u♦	4.0MΔ	280m		TO3	CØ
80	GT8100	PSi	689m	750	18k	3.0	6.0	12	200m	45	5.0	45	120		500u	10M	250m	E	TO3	CØ
81	GT8101	PSi	689m	750	18k	3.0	6.0	12	200m	60	5.0	60	120		500u	10M	250m	E	TO3	CØ
82	GT8102	PSi	689m	750	18k	3 0	6.0	12	200m	80	5.0	80	120		500u	10M	250m	E	TO3	CØ
83	GT8103	PSi	689m	750	18k	3.0	6 0	12	200m	100	5.0	100	120		500u	10M	250m	E	TO3	CØ
84#	BDX83	NSi	714m	750 #		3 0	1 0	10	250m	45	5.0	45 ☑	125	§J	1.0mΔ	20MΔ	400m#		TO3	CØ
85#	BDX83A	NSi	714m	750 #		3.0	1 0	10	250m	60	5.0	60 ☑	125	§J	1.0mΔ	20MΔ	400m#		TO3	CØ
86#	BDX83B	NSi	714m	750 #		3.0	1.0	10	250m	80	5.0	80 ☑	125	§J	1.0mΔ	20MΔ	400m#		TO3	CØ
87#	BDX83C	NSi	714m	750 #		3.0	1.0	10	250m	100	5.0	100 ☑	125	§J	1.0mΔ	20MΔ	400m#		TO3	CØ
88▼	SDN6060	NSi	768m	100		5.0	10	20				300 ☑	96	§J	1.0mΔ		150m		TO3	CØ
89▼	SDN6061	NSi	768m	100		5 0	10	20				400 ☑	96	§J	1.0mΔ		150m		TO3	CØ
90▼	SDN6062	NSi	768m	100		5.0	10	20				450 ☑	96	§J	1.0mΔ		150m		TO3	CØ
91▼	SDN6000	NSi	768m	150		5.0	5.0	15				400 ☑	96	§J	1.0mΔ		150m		TO3	CØ
92▼	SDN6001	NSi	768m	150		5.0	5.0	15				450 ☑	96	§J	1.0mΔ		150m		TO3	CØ
93▼	SDN6002	NSi	768m	150		5.0	5.0	15				500 ☑	96	§J	1.0mΔ		150m		TO3	CØ
94	GT8003†	N	769m	100		5.0	3.0	10 †		150 †		150	80	§J	1.0m♦Δ		400m	D	TO3	CØ
95	GT8004†	N	769m	100		5.0	3.0	10 †		200 †		200	80	§J	1.0m♦Δ		400m	D	TO3	CØ
96	GT8005†	N	769m	100		5.0	3.0	10 †		250 †		250	80	§J	1.0m♦Δ		400m	D	TO3	CØ
97	GT8000†	N	769m	100		5.0	5.0	15 †		150 †		150	90	§J	1.0m♦Δ		200m	D	TO3	CØ
98	GT8001†	N	769m	100		5.0	5.0	15 †		200 †		200	90	§J	1.0m♦Δ		200m	D	TO3	CØ
99	GT8002†	N	769m	100		5.0	5.0	15 †		250 †		250	90	§J	1.0m♦Δ		200m	D	TO3	CØ
100	IDI8000†	N	769m	100		5.0	5.0	15 †		150 †		150	90	§J	1.0mΔ♦		200m		TO3	CØ
101	IDI8001†	N	769m	100		5.0	5.0	15 †		200 †		200	90	§J	1.0mΔ♦		200m		TO3	CØ
102	IDI8002†	N	769m	100		5.0	5.0	15 †		250 †		250	90	§J	1.0mΔ♦		200m		TO3	CØ
103	IDI8003†	N	769m	100		5 0	5.0	10 †		150 †		150	80	§J	1.0mΔ♦		400m		TO3	CØ
104	IDI8004†	N	769m	100		5.0	5.0	10 †		200 †		200	80	§J	1.0mΔ♦		400m		TO3	CØ
105	IDI8005†	N	769m	100		5.0	5.0	10 †		250 †		250	80	§J	1.0mΔ♦		400m		TO3	CØ
106	IR5251†	NSi	800m	10		5 0	10	10	3.0	400	20	400	100	§J	1.0mΔ	8.0MΔ	200m	D	TO3	KFØ
107	IR5252†	NSi	800m	10		5.0	10	10	3.0	450	20	450	100	§J	1.0mΔ	8.0MΔ	200m	D	TO3	KFØ
108	IR5253†	NSi	800m	10		5.0	10	10	3.0	500	20	500	100	§J	1.0mΔ	8.0MΔ	200m	D	TO3	KFØ
109▼	SDN22311	NSi	800m	70		5.0	5.0	5.0				150 ☑	100	§J	1.0mΔØ	50M	520m		TO3	CØ
110▼	SDN22312	NSi	800m	70		5 0	5.0	5.0				250 ☑	100	§J	1.0mΔØ	50M	520m		TO3	CØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

13. DARLINGTON TRANSISTORS

IN ORDER OF (1) MIN DERATING FACTOR
(2) MIN hFE (3) IC TEST (4) TYPE No.

LINE No.	[4] TYPE No.	POL. & MAT. N-NPN P-PNP	[1] MIN. DERATE J TO C (W/°C)	hFE [2] MIN Ø-TYP	hFE MAX Ø-TYP	t-hfe TEST VCE ØVCB (V)	[3] IC ØIB (A)	ABSOLUTE MAX RATINGS @ 25°C IC Ø-IE (A)	IB Ø-IE (A)	BVCBO (V)	BVEBO (V)	BVCEO ØBVCES §BVCER (V)	MAX COLL (CASE) DISS-Pc (W)	MAX TEMP °C	MAX ICBO @ MAXVCB @ 25°C (A)	fT (Hz)	MAX SAT RES (Ω)	STRUCTURE	DWG No	LEAD CODE
1▼	RCA8766C	NSi	1 0	100 #		3.0	4.0	10	1 0	400	5.0	400	150	§J	1.0M*	10MΔ			TO3	KFØ
2▼	RCA8766E	NSi	1.0	100 #		3.0	4.0	10	1.0	450	5 0	450	150	§J	1.0M*	10MΔ			TO3	KFØ
3▼	MJ10012†	NSi	1.0	100 #	2 0k#	6.0	6.0	10	2.0	600	8.0	400	175	§J	1.0m		500m#		F49	CØ
4▼	RCA8766	NSi	1 0	100 #		3.0	6.0	10	1.0	350	5 0	350	150	§J	1 0M*	10MΔ			TO3	KFØ
5▼	RCA8766B	NSi	1.0	100 #		3.0	6.0	10	1.0	400	5.0	400	150	§J	1.0M*	10MΔ			TO3	KFØ
6▼	RCA8766D	NSi	1.0	100 #		3.0	6.0	10	1.0	450	5.0	450	150	§J	1 0M*	10MΔ			TO3	KFØ
7	IR6060†	N	1.0	100		5 0	10	20	4.0	350		350	125	§J	1.0mΔ	8.0MΔ	150m	D	TO3	CØ
8	IR6061†	N	1 0	100		5 0	10	20	4 0	400		400	125	§J	1.0mΔ	8.0MΔ	150m	D	TO3	CØ
9	IR6062†	N	1 0	100		5 0	10	20	4.0	450		450	125	§J	1.0mΔ	8.0MΔ	150m	D	TO3	CØ
10	IR4050†	NSi	1 0	100		5.0	15	15	4.0	500	20	500	125	§J	250uΔ	8.0MΔ	133m	D	TO3	KFØ
11	IR6000†	N	1.0	150		5 0	5.0	15	4.0	400		400	125	§J	1.0mΔ	8.0MΔ	150m	D	TO3	CØ
12	IR6001†	N	1.0	150		5.0	5.0	15	4.0	450		450	125	§J	1.0mΔ	8.0MΔ	150m	D	TO3	CØ
13	IR6002†	N	1 0	150		5.0	5 0	15	4.0	500		500	125	§J	1.0mΔ	8.0MΔ	150m	D	TO3	CØ
14	IR4055†	NSi	1.0	200		5.0	3.0	15	4.0	500	20	500	125	§J	250uΔ	8.0MΔ	120m	D	TO3	KFØ
15	IR4040†	NSi	1.0	250		5.0	3 0	15	4 0	400	20	400	125	§J	250uΔ	8.0MΔ	133m	D	TO3	KFØ
16	PMD25K120†	NSi	1 0 #	300		3.0	5 0	9 0	200m	120	2 0	120	150 #	§J	500uΔ		360m		TO3	CØ
17	PMD25K150†	NSi	1.0 #	300		3.0	5.0	9.0	200m	150	2.0	150	150 #	§J	500uΔ		360m		TO3	CØ
18	PMD20K120†	NSi	1.0 #	300		3 0	10	14	500m	120	2.0	120	150 #	§J	500uΔ		180m		TO3	CØ
19	PMD20K150†	NSi	1.0 #	300		3.0	10	14	500m	150	2 0	150	150 #	§J	500uΔ		180m		TO3	CØ
20▼	PMD20K200†	NSi	1 0 #	300		3.0	10	14	500m	200	2.0	200	150	§J			170m		TO3	CØ
21▼	PMD25K200†	NSi	1.0 #	300		3.0	10	9.0	200m	200	2.0	200	150	§J			170m		TO3	CØ
22	IR4045†	NSi	1.0	500		5.0	5.0	15	4.0	400	20	400	125	§J	250uΔ	8.0MΔ	120m	D	TO3	KFØ
23	IR640†	NSi	1.0	500 #	5.0kØ	4.0	10	10	500m	60 †	5.0†	60	175	§J	1.0m♦		300m#		TO3	KFØ
24	IR641†	NSi	1.0	500 #	5.0kØ	4.0	10	10	500m	80 †	5 0†	80	175	§J	1.0m♦		300m#		TO3	KFØ
25	IR642†	NSi	1 0	500 #	5.0kØ	4.0	10	10	500m	100 †	5 0†	100	175	§J	1.0m♦		300m#		TO3	KFØ
26	IR645†	PSi	1.0	500 #	1.0kØ	4.0	10	10	500m	60 †	5.0†	60	175	§J	1.0m♦		300m#		TO3	KFØ
27	IR646†	PSi	1.0	500 #	1.0kØ	4.0	10	10	500m	80 †	5.0†	80	175	§J	1.0m♦		300m#		TO3	KFØ
28	IR647†	PSi	1 0	500 #	1.0kØ	4.0	10	10	500m	100 †	5.0†	100	175	§J	1.0m♦		300m#		TO3	KFØ
29	TIP140†	NSi	1.0	500 #	5 0kØ	4.0	10	10 †	500m	60 †	5.0†	60	125	§J	1.0m♦		300m#		B3	KBØ
30	TIP141†	NSi	1 0	500 #	5.0kØ	4.0	10	10 †	500m	80 †	5 0†	80	125	§J	1.0m♦		300m#		B3	KBØ
31	TIP142†	NSi	1.0	500 #	5.0kØ	4.0	10	10 †	500m	100 †	5.0†	100	125	§J	1.0m♦		300m#		B3	KBØ
32	TIP145	PSi	1.0	500 #	1.0kØ	4.0	10	10 †	500m	60 †	5 0†	60	125	§J	1.0m♦		300m#		B3	KBØ
33	TIP146	PSi	1.0	500 #	1.0kØ	4.0	10	10 †	500m	80 †	5.0†	80	125	§J	1.0m♦		300m#		B3	KBØ
34	TIP147	PSi	1 0	500 #	1.0kØ	4 0	10	10 †	500m	100 †	5.0†	100	125	§J	1.0m♦		300m#		B3	KBØ
35	TIP640†	NSi	1 0	500 #	5.0kØ	4 0	10	10 †	500m	60 †	5.0†	60	175	§J	1 0m♦		300m#		TO3	KFØ
36	TIP641†	NSi	1.0	500 #	5.0kØ	4 0	10	10 †	500m	80 †	5 0†	80	175	§J	1.0m♦		300m#		TO3	KFØ
37	TIP642†	NSi	1 0	500 #	5.0kØ	4.0	10	10 †	500m	100 †	5 0†	100	175	§J	1.0m♦		300m#		TO3	KFØ
38	TIP645†	PSi	1 0	500 #	1 0kØ	4.0	10	10 †	500m	60 †	5 0†	60	175	§J	1 0m♦		300m#		TO3	KFØ
39	TIP646†	PSi	1.0	500 #	1.0kØ	4.0	10	10 †	500m	80 †	5.0†	80	175	§J	1.0m♦		300m#		TO3	KFØ
40	TIP647†	PSi	1 0	500 #	1.0kØ	4.0	10	10 †	500m	100 †	5 0†	100	175	§J	1 0m♦		300m#		TO3	KFØ
41	PMD11K40	PSi	1 0	800	20k	3 0	6.0	12	200m	40	5.0	40	150 #	§J	200uΔ		333m	P-E	TO3	CØ
42	PMD11K60	PSi	1.0	800	20k	3.0	6.0	12	200m	60	5.0	60	150 #	§J	200uΔ		333m	P-E	TO3	CØ
43	PMD11K80	PSi	1.0	800	20k	3.0	6.0	12	200m	80	5.0	80	150 #	§J	200uΔ		333m	P-E	TO3	CØ
44	PMD11K100	PSi	1 0 #	800	20k	3 0	6 0	12	200m	100	5.0	100	150 #	§J	1.0mΔ		333m	P-E	TO3	CØ
45	JAN2N6051†	PSi	1.0	1.0k	10k#	3.0	6.0	12	200m	80	5.0	80	150	§J	500u#	20MΔ	333m#		TO3	CØ
46	JAN2N6052†	PSi	1 0	1.0k	10k#	3.0	6.0	12	200m	100	5.0	100	150	§J	500u#	20MΔ	333m#		TO3	CØ
47	PMD10K40	NSi	1.0 #	1.0k	20k	3.0	6.0	12	200m	40	5.0	40	150 #	§J	200uΔ		333m	N-E	TO3	CØ
48	PMD10K60	NSi	1.0 #	1.0k	20k	3.0	6 0	12	200m	60	5.0	60	150 #	§J	200uΔ		333m	N-E	TO3	CØ
49	PMD10K80	NSi	1.0 #	1.0k	20k	3.0	6.0	12	200m	80	5.0	80	150 #	§J	200uΔ		333m	N-E	TO3	CØ
50	PMD10K100	NSi	1 0 #	1.0k	20k	3 0	6.0	12	200m	100	5.0	100	150 #	§J	1.0mΔ		333m	N-E	TO3	CØ
51	JAN2N6058†	NSi	1.0	2.5k	18k#	3.0	6.0	12	200m	80	5.0	80	150	§J	500u#	20MΔ	333m#		TO3	CØ
52	JAN2N6059†	NSi	1.0	2.5k	18k#	3.0	6 0	12	200m	100	5 0	100	150	§J	500u#	20MΔ	333m#		TO3	CØ
53	MJ11011	PSi	1 1	200		5.0	30	30	1.0	60	5 0	60	200	§J	1.0m*	4.0MΔ	150m		TO3	KF
54	MJ11012	NSi	1.1	200		5.0	30	30	1.0	60	5.0	60	200	§J	1.0m*	4.0MΔ	150m		TO3	KF
55	MJ11013	PSi	1 1	200		5.0	30	30	1 0	90	5 0	90	200	§J	1.0m*	4.0MΔ	150m		TO3	KF
56	MJ11014	NSi	1.1	200		5.0	30	30	1.0	90	5.0	90	200	§J	1.0m*	4.0MΔ	150m		TO3	KF
57	MJ11015	PSi	1.1	200		5.0	30	30	1.0	120	5.0	120	200	§J	1.0m*	4.0MΔ	150m		TO3	KF
58	MJ11016	NSi	1.1	200		5.0	30	30	1.0	120	5.0	120	200	§J	1.0m*	4.0MΔ	150m		TO3	KF
59	PMD1601K	NSi	1.1	750	18k	3.0	10	20	500m	60	5.0	60	200	§J	500uΔ				TO3	CØ
60	PMD1602K	NSi	1.1	750	18k	3.0	10	20	500m	80	5.0	80	200	§J	500uΔ				TO3	CØ
61	PMD1603K	NSi	1.1	750 Ø		3.0	10	20				100	200		1.0mΔ		200m	N-E	TO3	CØ
62	PMD1701K	PSi	1.1	750	18k	3.0	10	20	500m	60	5.0	60	200	§J	500uΔ				TO3	CØ
63	PMD1702K	PSi	1.1	750	18k	3.0	10	20	500m	80	5.0	80	200	§J	500uΔ				TO3	CØ
64	PMD1703K	PSi	1.1	750 Ø		3.0	10	20				100	200		1.0mΔ		200m	P-E	TO3	CØ
65#	2SD572†	Si	1.2	80	100 Ø	5.0	15	15	1.0	500	8.0	400	150	§J	1.0m	7.0M	153m		F6e	KF
66#	2SD578†	Si	1.2	80	100 Ø	5.0	15	15	1.0	600	8.0	450	150	§J	1.0m	7.0M	153m		F6e	KF
67▼	2N6355	NSi	1.2	500	5.0k#	5.0	4.0	20	1.0	50 †	5.0†	40	150	§J	2.0m#♦				TO3	KFØ
68▼	2N6357	NSi	1.2	500	5.0k#	5.0	4.0	20	1.0	80 †	5.0†	60	150	§J	2.0m#♦				TO3	KFØ
69	MJ3520	NSi	1.2	500		5.0	4.0	15	1.0	40	5.0	40	150	§J	5.0mΔ♦		625m		TO3	KFØ
70	MJ3521	NSi	1.2	500		5.0	4.0	15	400m	100	5.0	80	150	§J	1.0mΔ♦		450m		TO3	KFØ
71#	2SC1830		1.2	500		2.0	8.0	15	1.0	140	7.0	140	150	§J	100u	10M	250m	DM	TO3	CØ
72▼	2N6356	NSi	1.2	1.5k	10k#	5.0	4.0	20	1.0	50 †	5 0†	40	150	§J	2.0m#♦				TO3	KFØ
73▼	2N6358	NSi	1.2	1.5k	10k#	5.0	4.0	20	1.0	80 †	5.0†	60	150	§J	2.0m#♦				TO3	KFØ
74	DTS4067†	NSi	1.3	5.0		5.0	25	20	5.0			600	100	§J	250uΔ	8.0MΔ	175m	D	TO3	KFØ
75▼	DTS4072†	NSi	1.3	5.0		5.0	25	20	5.0		2.0	600	100	§J	250uΔ	8.0MΔ	175m	D	TO3	KFØ
76	DTS4075†	NSi	1.3	10		5.0	25	20	5.0			600	100	§J	250uΔ	8.0MΔ	100m	D	TO3	KFØ
77▼	DTS4062†	NSi	1.3	75		5.0	10	20	5.0		7.0	600	100	§J	250uΔ	8.0MΔ	200m	D	TO3	KFØ
78	DTS4066†	NSi	1.3	75		5.0	10	20	5.0			600	100	§J	250uΔ	8.0MΔ	200m	D	TO3	KFØ
79	DTS4074†	NSi	1.3	150		5.0	10	20	5.0			600	100	§J	250uΔ	8.0MΔ	150m	D	TO3	KFØ
80	PMD17K40	PSi	1.5	800	20k	3.0	10	20	500m	40	5.0	40	225 #	§J	200uΔ		200m	P-E	TO3	CØ
81	PMD17K60	PSi	1.5	800	20k	3.0	10	20	500m	60	5.0	60	225 #	§J	200uΔ		200m	P-E	TO3	CØ
82	PMD17K80	PSi	1.5	800	20k	3.0	10	20	500m	80	5.0	80	225 #	§J	200uΔ		200m	P-E	TO3	CØ
83	PMD17K100	PSi	1.5 #	800	20k	3.0	10	20	500m	100	5.0	100	225 #	§J	200uΔ		200m	P-E	TO3	CØ
84	PMD16K40	NSi	1 5	1.0k	20k	3.0	10	20	500m	40	5.0	40	225 #	§J	200uΔ		200m	N-E	TO3	CØ
85	PMD16K60	NSi	1.5	1.0k	20k	3.0	10	20	500m	60	5.0	60	225 #	§J	200uΔ		200m	N-E	TO3	CØ
86	PMD16K80	NSi	1.5	1.0k	20k	3.0	10	20	500m	80	5.0	80	225 #	§J	200uΔ		200m	N-E	TO3	CØ
87	PMD16K100	NSi	1.5 #	1.0k	20k	3.0	10	20	500m	100	5.0	100	225 #	§J	200uΔ		200m	N-E	TO3	CØ
88	PT5000	N	2.0	175		4.0	250	250	25	60	10	60 ☑	350	§J	5.0m§	1.0k	10m	M		
89	PT5001	N	2.0	175		4.0	250	250	25	80	10	80 ☑	350	§J	5.0m§	1.0k	10m	M		
90	MT5000	N	2.0	500 #		4.0	125	125		60	10	60 ☑	350 Ø	§J	5.0m§		12m#		S18	KF
91	MT5001	N	2.0	500 #		4 0	125	125		80	10	80 ☑	350 Ø	§J	5.0m§		12m#		S18	KF
92#	2SD465†	Si	3.2	100	200 Ø	5.0	50	50	3.0	500	4.0	400	400	§J	1.0m	6.5M	50m		F40	KC
93#	2SD466†	Si	3.2	100	200 Ø	5.0	50	50	3.0	600	4.0	450	400	§J	1.0m	6.5M	50m		F40	KC
94#	2SD574†	Si	3.2	200	800 Ø	3.0	15	30	5.0	120	4.0	120	400	§J	5.0m	6.0M	100m		F6f	KF
95	PT5002	N	4.0	100		4.0	500	500	25	60	10	60 ☑	700	§J	10m§	1.0k	5.0m	M		
96	PT5003	N	4.0	100		4.0	500	500	25	80	10	80 ☑	700	§J	10m§	1.0k	5.0m	M		
97	MT5002	N	4.0	500 #		4 0	250	250		60	10	60 ☑	700 Ø	§J	10m§		8.0m#		S20	KA
98	MT5003	N	4.0	500 #		4.0	250	250		80	10	80 ☑	700 Ø	§J	10m§		8.0m#		S20	KA
99	MM6427	NSi	7.1	10k	#	5 0	100m	300m		50	12	40	375mØ	§J	100n	125MΔ	15 #	AN	TO18	KC
100	PT5004	N	8.3	100		4.0	800	800	25	60	10	60 ☑	1.4k	§J	15m§	1.0k	3.1m	M		
101	PT5005	N	8.3	100		4.0	800	800	25	80	10	80 ☑	1.4k	§J	15m§	1.0k	3.1m	M		
102	PT5006	N	8.3	100		4.0	1.2k	1.2k	25	60	10	60 ☑	2.1k	§J	20m§	1.0k	2.0m	M		
103	PT5007	N	8.3	100		4.0	1 2k	1 2k	25	80	10	80 ☑	2.1k	§J	20m§	1 0k	2.0m	M		
104	MT5004	N	8 3	400 #		4.0	500	500		60	10	60 ☑	1.4kØ	§J	15m§		4.0m#		S19	
105	MT5005	N	8.3	400 #		4.0	500	500		80	10	80 ☑	1.4kØ	§J	15m§		4.0m#		S19	
106	MT5006	N	12	400 #		4.0	750	750		60	10	60 ☑	2 1kØ	§J	20m§		2.0m#		S19	
107	MT5007	N	12	400 #		4.0	750	750		80	10	80 ☑	2.1kØ	§J	20m§		2.0m#		S19	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

14. MISCELLANEOUS TRANSISTORS

IN ORDER OF (1) CATEGORY & (2) TYPE No.

LINE No.	2 TYPE No.	1 CATEGORY USE	STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG	DESCRIPTION
1	MD6002F	5	N-PAN	Si	X22		Pd 350mW;VCB 60Vdc;VCEO 30Vdc;fT 200MHz min;Max tr 40,td 20,ts 280,tf 70ns.
2	MD6003	5	N-PAN	Si	R131f	PA	Pd 550mW;VCB 50Vdc;VCEO 30Vdc;fT 200MHz min;Cob 8.0pf max.
3	MD6003F	5	N-PAN	Si	X22		Pd 350mW;VCB 50Vdc;VCEO 30Vdc;fT 200MHz min;Cob 8.0pf max.
4	MD6100	5	P-NAN	Si	TO99	PA	Pt-600mW(both sides);VCEO-45V;hFE-100 at 100uA;5.0V.
5	MD6100F	5	P-NAN	Si	TO89	PB	PD(both sides)400mW max;VCEO 45V;hFE 100 at 100uA,5.0V.
6	MD6900	5	N-PAN	Si	R131b	PA	Pd 600mW(Both);VCB 12Vdc;VCEO 10Vdc,ICBO 10nAdc;hFE 40-200,IC 10mAdc,VCE 5Vdc.
7	MD7021	5	N-PAN	Si	R131f	PA	Pd 550mW;VCB 50Vdc;VCEO 40Vdc;fT 200MHz min;ton 28 ns;toff 72ns.
8	MD7021F	5	N-PAN	Si	X22		Pd 350mW;VCB 50Vdc;VCEO 40Vdc;fT 200MHz min;ton 28ns;toff 72ns.
9▼	MJE6040*	5	N-P	Si	B5	B	W/MJE6043;PT 75W;BVCBO 60V;BVCEO 60V;hFE 1/2 1.0k min at IC 4.0A,VCE 4.0V
10▼	MJE6041*	5	N-P	Si	B5	B	W/MJE6044;PT 75W;BVCBO 80V;BVCEO 80V;hFE 1/2 1.0k min at IC 4.0A,VCE 4.0V
11▼	MJE6042*	5	N-P	Si	B5	B	W/MJE6045;PT 75W;BVCBO 100V;BVCEO 100V;hFE 1/2 1.0k min at IC 3.0A,VCE 4.0V
12#	PA6003	5	N-P-PE	Si	TO105	A	BVCBO 25V min;Pt 360mW;hFE 40 min;VCE(Sat)300mV max;ft 150MHz.
13#	PA6005	5	NPE	Si	R110d	A	W/PB6005;PT 360mW;BVCBO 25V min;ICBO 500nA max;hFE 100 min;Cob 12pF max
14▼#	PA6015	5	N-P-PE	Si	R222	F	W/PB6015;PT 500mW;BVCBO 25V min;ICBO 500nA max;hFE 60 min;Cob 12pF max
15#	PA6015A	5	NPE	Si	R222	F	W/PB6015A;PT 500mW;BVCBO 25V min;ICBO 500nA max;hFE 120 min;Cob 12pF max
16♦#	PA6015B	5	NPE	Si	R222	F	W/PB6015B;PT 500mW;BVCBO 25V min;ICBO 500nA max;hFE 200 min;Cob 12pF max
17♦#	PAM6003	5	N-P-PE	Si	R216g	A	BVCBO 25V min;Pt 800mW;hFE 40 min;VCE(Sat)300mV max;ft 150MHz.
18#	PB6003	5	N-P-PE	Si	TO105	A	BVCBO 25V min;Pt 360mW;hFE 40 min;VCE(Sat)300mV max;ft 150MHz.
19#	PB6005	5	PPE	Si	R110d	A	W/PA6005;PT 360mW;BVCBO 25V min;ICBO 500nA max;hFE 100 min;Cob 12pF max
20▼#	PB6015	5	N-P-PE	Si	R222	F	W/PA6015;PT 500mW;BVCBO 25V min;ICBO 500nA max;hFE 60 min;Cob 12pF max
21#	PB6015A	5	PPE	Si	R222	F	W/PA6015A;PT 500mW;BVCBO 25V min;ICBO 500nA max;hFE 120 min;Cob 12pF max
22♦#	PB6015B	5	PPE	Si	R222	F	W/PA6015B;PT 500mW;BVCBO 25V min;ICBO 500nA max;hFE 200 min;Cob 12pF max
23♦#	PBM6003	5	N-P-PE	Si	R216g	A	BVCBO 25V min;Pt 800mW;hFE 40 min;VCE(Sat)300mV max;ft 150MHz.
24	PTC1101-RT	5		Si	B17a	DØ	Comp Pair AF Power Amp;Pd 12.5W;IC 3.0A max;BVCB 70V max;hFE 100;f 75MHz.
25	PTC1123-RT	5		Si	TO66	CØ	Comp Pair AF Power Amp;Pd 25W;IC 4.0A max;BVCB 90V max;hFE 80;f 6.0MHz.
26	PTC1423-RT	5		Si	TO5	AØ	Comp Pair AF Power Amp;Pd 6.0W;IC 3.0A max;BVCB 65V max;hFE 80;f 8.0MHz.
27	PTC1623-RT	5		Si	B16	D	Comp Pair AF Power Amp;Pd 40W;IC 4.0A max;BVCB 60V max;hFE 50;f 2.0MHz.
28	PTC1645-RT	5		Si	B16k	D	Comp Pair AF Power Amp;Pd 100W;IC 12A max;BVCB 80V max;hFE 70;f 2.0MHz.
29	PTC1667-RT	5		Si	B17a	DØ	Comp Pair AF Power Amp;Pd 75W;IC 5.0A max;BVCB 100V max;hFE 40;f 2.0MHz.
30	PTC1689-RT	5		Si	B16k	B	Comp Pair AF Power Amp;Pd 100W;IC 12A max;BVCB 80V max;hFE 70;f 2.0MHz.
31	PTC1723-RT	5		Si	F4p	CØ	Comp Pair AF Power Amp;Pd 200W;IC 16A max;BVCB 100V max;hFE 50;f 50MHz.
32	PTC1745-RT	5		Si	F4p	CØ	Comp Pair AF Power Amp;Pd 250W;IC 30A max;BVCB 100V max;hFE 50;f 2.0MHz.
33	PTC1778-RT	5		Si	R198	B	Comp Pair AF Power Amp;Pd 1.0W;Ic 1.0A max;BVCB 100V max;hFE 160;f 200MHz.
34	SDM3000*	5	N-P	Si			Compl Darlington Pair;Pt 115W;BVCBO 60V min;hFE 10k min;ft 50MHz.
35	SDM3001*	5	N-P	Si			Compl Darlington Pair;Pt 115W;BVCBO 80V min;hFE 10k min;ft 50MHz.
36	SDM3002*	5	N-P	Si			Compl Darlington Pair;Pt 115W;BVCBO 100V min;hFE 10k min;ft 50MHz.
37	SDM3003*	5	N-P	Si			Compl Darlington Pair;Pt 115W;BVCBO 60V min;hFE 1.0k min;ft 40MHz.
38	SDM3004*	5	N-P	Si			Compl Darlington Pair;Pt 115W;BVCBO 80V min;hFE 1.0k min;ft 40MHz.
39	SDM3005*	5	N-P	Si			Compl Darlington Pair;Pt 115W;BVCBO 100V min;hFE 1.0k min;ft 40MHz.
40	TD600	5	PLtØ	Si	R138	PN	Pt-400mW;hFE1/2-.90min;ft 20MHz min;IC-500mA max.
41	TD601	5	PLt	Si	R138	PN	Pt-400mW;ft-20MHz min;hFE at 10uA-100min;-IC-500mA max.
42	TD602	5	PLt	Si	R138	PN	Pt-400mW;ft-200MHz min;hFE at 1.0mA-50min;IC-500mA max.
43	TD700	5	P-N-PLØt	Si	R138	PL	Pt 400mW;hFE1/2 .90 min;BVCBO 40V;BVCEO 30V;hFE 120 min.at IC 1.0mA;ft 20M min.
44	TD701	5	P-N-PLt	Si	R138	PL	Pt 400mW;BVCBO 40V;BVCEO 30V;BVEBO 5.0V;hFE 100 min.at IC 10uA;ft 20MHz min.
45	TD702	5	P-N-PLt	Si	R138	PL	Pt 400mW;BVCBO 40V;BVCEO 30V;BVEBO 5.0V;hFE 120 min.at IC 150mA;ft 200MHz min.
46	TIS60M	5	N-PL	Si	TO92		Consist of TIS60 and TIS61;Available only with matching TIS61M.
47	TIS61M	5	P-PL	Si	TO92		Consist of TIS61 and TIS60;Available only with matching TIS60M.
48	TIS90M	5	N	Si	TO92	B	Same as TIS90, available only with matching TIS91M
49	TIS91M	5	P	Si	TO92	B	Same as TIS91, available only with matching TIS90M.
50	TIS92M	5	N	Si	R203	A	Same as TIS92, available only with matching TIS93M
51	TIS93M	5	P	Si	R203	A	Same as TIS93, available only with matching TIS92M
52#	2AC128	6	P-A	Ge	TO1	F	hFE1/hFE2 1.25 max at VCB 0.0V,Ic 50mA;Pt 1.0W max;BVCBO 32V max.
53#	2AC128-01	6	P-A	Ge	X9c	A	Matched pair AC128/01;hFE1/hFE2 1.25 max. at IC 50mA and 300mA.
54#	2AC132	6	P-A	Ge	TO1	F	Matched pair of AC132;hFE1/2 1.1 at Ic 50mA,VCB0.0
55#	2AC188	6	P-A	Ge	TO1		Matched pair of AC188;hFE1/2-1.25 max at IC-500mA.
56#	2AC188-01	6	P-A	Ge	X9c		Matched pair AC188/01;hFE1/hFE2 1.25 max. at IC 50mA and 500mA.
57#	2ACY17	6	P-AØ	Ge	TO5		hFE 1/2-1.2 max;VBE(1-2)-250mV max.
58#	2ACY18	6	P-AØ	Ge	TO5		hFE 1/2-1.2 max;VBE(1-2)-250mV max.
59#	2ACY19	6	P-AØ	Ge	TO5		hFE 1/2-1.2 max;VBE(1-2)-250mV max.
60#	2AD139	6	P-A	Ge	F7		Matched Pair AD139; hFE1/hFE2-1.25 max.
61#	2AD149	6	P-A	Ge	TO3	CØ	Matched Pair of AD149;hFE1/2 1.25 at IC 300mA.
62#	2AD162	6	P	Ge	F9b	CØ	Matched Pair of AD162;hFE1/2-1.1 at VCE-1.0V;IC-50mA
63#	2BD124	6	N-PE	Si	F9b	CØ	Matched pair of BD124;IB(1-2) 2.0mA max;BVCBO 70V.
64#	2BD131	6	N-PE	Si	TO126	D	Matched Pair of BD131;hFE 280 max;△1B 2.0mA max;hFE1/2 1.2 max.
65#	2BD181	6	N	Si			Pt 78W;BVCBO 55V;BVCEO 45V;hFE1/2 1.3 at IC 3A,VCE 4.0V.
66#	2BD182	6	N	Si			Pt 117W;BVCBO 70V;BVCEO 60V;hFE1/2 1.3 at Ic 4A,VCE 4.0V.
67#	2BD183	6	N	Si			Pt 117W;BVCBO 85V;BVCEO 80V;hFE1/2 1.3 at IC 3A,VCE 4.0V.
68#	2BDY20	6	N-D	Si	TO3	CØ	Matched pair of BDY20;hFE1/2 1.6 at IC 400mA,VCE 4.0V.
69#	2BDY38	6	N-D	Si	TO3	CØ	Matched pair of BDY38;hFE1/2 1.5 at Ic 200mA, VCE 4.0V.
70#	2N2X	6	N-PL	Si	TO5		BVCBO-60V; ICBO-.01uA; Matched pair for hFE1/hFE2-.9 min, 1.1 max
71	2N282	6	P	Ge	R8		Matched Pair of 2N281
72	2N2060*	6	N-Ø	Si	R131c		Pt-.6W,hFE1/2-.90 min;VBE(1-2)-5mV max;△VBE(1-2)△T-10uV/deg.C.
73	JAN2N2060*	6	NØ	Si	R52		Pt 600mW both;VBE(1-2) 5.0mV max;hFE1/2 .900 min;△VBE(1-2) 800uV max.
74	2N2060A*	6	N	Si	R131c		Pt-600mW both;VBE(1-2)-3.0mV max;hFE1/2-.90 min.
75	2N2060B*	6	NØ	Si	R131c		Pt-600mW;BVCBO-100V;hFE1/2-.85 min;VBE(1-2)-1.5mV;hFE-120 max.
76	2N2223*	6	N	Si	R131c		Pt-.6W;hFE1/2-.80 min;VBE(1-2)-15mV max;△VBE(1-2)/△T-25uV/deg.C.
77	2N2223A*	6	N	Si	R131c		Pt-.6W;hFE1/2-.90 min;VBE(1-2)-5mV max;△VBE(1-2)/△T-25uV/deg.C.
78	2N2376	6	P		TO5	A	Pt 250mW;BVCBO 35;Forward-current transfer Ratio Match 20%.
79	2N2414*	6	N	Si	R131c		Pt 600mV max;hFE 250 max. each side.
80#	2N2431MP	6	P-A	Ge	TO1		Matched Pair 2N2431;3.0W out Class B;hFE1/hFE2-1.25 max.
81	2N2453*	6	N	Si	R131c		Pt-.30W;hFE1/2-.90 min;VBE1-2-5.0mV max;△VBE(1-2)/△T-10uV/Deg.C
82	2N2453A*	6	N	Si	R131c		Pt-.30W;hFE1/2-.90 min;VBE(1-2)-5.0mV max.
83	2N2480*	6	N Ø	Si	R131c		Pt-.6W;hFE1/2-.80 min;VBE(1-2)-10mV max;△VBE(1-2)/△T-15uV/deg.C
84	2N2480A*	6	N Ø	Si	R131c		Pt-.6W;hFE1/2-.80 min;VBE(1-2)-5mV max;△VBE(1-2)/△T-15uV/deg.C.
85	2N2639*	6	NØ	Si	R131c		Pt 600mW max;hFE(1/2).90 min;VBE(1-2)5.0mV max;△VBE(1-2)/△TA 10uV/°C max.
86	JAN2N2639*	6	NØ	Si	TO77		Pt-600mW both;hFE1/2-.90 min;VBE(1-2)-5.0mV max;△VBE(1-2)/△T-10uA/°C.
87	2N2640*	6	NØ	Si	R131c		Pt 600mW max;hFE(1/2).80 min;VBE(1-2)10mV max;△VBE(1-2)/△TA 20uV/°C max.
88	2N2642*	6	NØ	Si	R131c		Pt 600mW max;hFE(1/2) 90 min;VBE(1-2)5.0mV max;△VBE(1-2)/△TA 10uV/°C max.
89	JAN2N2642*	6	NØ	Si	TO77		Pt-600mW both;hFE1/2-.90 min;VBE(1-2)-5.0mV max;△VBE(1-2)/△T-10uA/°C.
90	2N2643*	6	NØ	Si	R131c		Pt 600mW max;hFE(1/2).80 min;VBE(1-2)10mV max;△VBE(1-2)/△TA 20uV/°C max.
91	2N2652*	6	N Ø	Si	R131c		Pt-.6W;hFE1/2-.85 min;VBE(1-2)-3mV;△VBE1-2/△T-10uV/deg.C.
92	2N2652A*	6	N Ø	Si	R131c		Pd-600mW both;hFE1/2-.90 min;VBE(1-2)-3mV;△VBE1-2/△T-10uV/deg.C.
93	2N2720*	6	N	Si	R131c		Pt-600mW;hFE1/2-.90 min;VBE(1-2)-5mV max;△VBE1-2/△T-1mV.
94	2N2721*	6	N	Si	R131c		Pt-600mW;hFE1/2-.80 min;VBE(1-2)-10mV max;△VBE1-2/△T-2mV.
95	2N2722*	6	N	Si	R131c		Pt-600mW;hFE1/2-.90 min;VBE(1-2)-5mV max;△VBE1-2/△T-1mV.
96	2N2802*	6	P	Si	R131c	PA	Pt-.50W;hFE1/2-.90 min;VBE(1-2)-5.0mV max;△VBE(1-2)/△T-10uV/Deg.C.
97	2N2803*	6	P	Si	R131c	PA	Pt-.50W;hFE1/2-.80 min;VBE(1-2)-10mV max;△VBE(1-2)/△T-20uV/Deg.C.
98	2N2805*	6	P	Si	R131c	PA	Pt-.50W;hFE1/2-.90 min;VBE(1-2)-5.0mV max;△VBE(1-2)/△T-10uV/Deg.C.
99	2N2806*	6	P	Si	R131c	PA	Pt-.50W;hFE1/2-.80 min;VBE(1-2)-10mV max;△VBE(1-2)/△T-20uV/Deg.C.
100	2N2903*	6	N	Si	R131c		Pt-.30W;hFE1/2-.80 min;VBE1-2-1.0mV max;△VBE(1-2)/△T-20uV/Deg.C
101	2N2903A*	6	N	Si	R131c		Pt-.30W;hFE1/2-.90 min;VBE(1-2)-5.0mV max.
102	2N2910*	6	N	Si	TO77		Pt-600mW both;hFE1/2-.80 min;VBE(1-2)-10mV;△VBE(1-2)/△T-20uV/deg.C
103	2N2915*	6	NØ	Si	R131c		Pt-.50W;hFE1/2-.90 min;VBE(1-2)-5.0mV max;VCE(sat)-.35 ohms.
104	2N2915A*	6	N Ø	Si	R131c		hFE1/2-.85 min;VBE(1-2)-2.0mV max;Pt-.5W;△VBE(1-2)/△T-5uV/deg.C.
105	2N2916*	6	N	Si	R131c		Pt-.50W;hFE1/2-.90 min;VBE/1-2/-5.0mV;△VBE(1-2)-.80mV.
106	2N2916A*	6	N Ø	Si	R131c		hFE1/2-.85 min;VBE(1-2)-2.0mV max;Pt-.5W;△VBE(1-2)/△T-5uV/deg.C.
107	2N2917*	6	N	Si	R131c		Pt-.50W;hFE1/2-.80 min;VBE/1-2/-10mV;△VBE(1-2)-1.6mV.
108	2N2918*	6	N	Si	R131c		Pt-.50W;hFE1/2-.80 min;VBE/1-2/-10mV;△VBE(1-2)-1.6mV.
109	2N2919*	6	N	Si	R131c		Pt-.50W;hFE1/2-.90 min;1VBE/1-2/-5.0mV;△VBE(1-2)-.80mV.
110	JAN2N2919*	6	NØ	Si	R131d		Pt-.50W both;hFE1/2-1.1max;△VBE1-2-800uVmax;IEBO-2.0nA max.

14. MISCELLANEOUS TRANSISTORS

LINE No.	2 TYPE No.	1 CATEGORY USE	STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CODE	DESCRIPTION
1	2N5119*	6	PØ	Si	TO78	PR	Pt .75W,VBE(1-2) 5.0mV;ΔVBE(1-2) 10uV/°C,hFE1/2 .80 min.
2	2N5120*	6	PØ	Si	TO71	PA	Pt .50W;VBE(1-2) 3.0mV,ΔVBE(1-2) 3.0uV/°C;hFE1/2 90 min
3	2N5121*	6	PØ	Si	TO71	PA	Pt .50W,VBE(1-2) 5.0mV,ΔVBE(1-2) 5.0uV/°C;hFE1/2 .85 min.
4	2N5122*	6	PØ	Si	TO71	PA	Pt .50W;VBE(1-2) 5.0mV;ΔVBE(1-2) 10uV/°C;hFE1/2 .80 min
5	2N5123*	6	PØ	Si	R138	PL	Pt-750mW;VBE(1-2)-3mV,ΔVBE(1-2)-3uV/°C,hFE1/2-90min.
6	2N5124*	6	PØ	Si	R138	PL	Pt-750mW,VBE(1-2)-5mV,ΔVBE(1-2)-5uV/°C;hFE1/2-85min
7	2N5125*	6	PØ	Si	R138	PL	Pt-750mW,VBE(1-2)-5mV;ΔVBE(1-2)-10uV/°C;hFE1/2-80min.
8	2N5196*	6	NØ	Si	R120	PC	Pt 375mW;IDSS1/2 .95 min;VGS(1-2) 5.0mV max;yfs1/2 .97 min.
9	2N5197*	6	NØ	Si	R120	PC	Pt 375mW;IDSS1/2 .95 min;VGS(1-2) 5.0mV max;yfs1/2 .97 min.
10	2N5198*	6	NØ	Si	R120	PC	Pt 375mW;IDSS1/2 .95 min;VGS(1-2) 10mV max;yfs1/2 .95 min.
11	2N5199*	6	NØ	Si	R120	PC	Pt 375mW;IDSS1/2 .95 min;VGS(1-2) 15mV max;yfs1/2 .95 min.
12	2N5255*	6	P-Ø	Si	R137	PA	Pt-.43W;hFE1/2-.80 min;VBE(1-2)-5.0mV max;ΔVBE(1-2)/ΔT-20uV/deg.C
13	2N5255/78*	6	P	Si	R131c		Pt 500mW;hFE1/2 .80 min;VBE(1-2) 5.0mV max,ΔVBE(1-2)/ΔT 20uV/deg C
14	2N5256*	6	P-Ø	Si	R137	PA	Pt-.43W;hFE1/2-.90 min;VBE(1-2)-3.0mV max;ΔVBE(1-2)/ΔT-10uV/deg.C
15	2N5256/78*	6	P	Si	R131c		Pt 500mW;hFE1/2-.90 min,VBE(1-2) 3.0mV max;ΔVBE(1-2)/ΔT 10uV/deg.C
16	2N5452*	6	N-EØ	Si	TO71	PC	Pt-.50W,VGS(1-2)-5mV;ΔVGS(1-2)-5uV/deg.C;yfs1/2-.97 min
17	2N5453*	6	N-EØ	Si	TO71	PC	Pt-.50W;VGS(1-2)-10mV;ΔVGS(1-2)-10uV/deg.C;yfs1/2-.97 min.
18	2N5454*	6	N-EØ	Si	TO71	PC	Pt-.50W;VGS(1-2)-15mV;ΔVGS(1-2)-25uV/deg.C;yfs1/2-.95 min.
19	2N5508*	6	P#Ø	Si	TO71	PC	Pt-.3W;IG(1-2)-50pA;Yos(1-2)-1.5umhos;VGS(1-2)-15mV;VGS(1-2)/TΔ-1.9mV
20	2N5515*	6	NØ	Si	R120	PC	Pt 375mW;IDSS1/2 95 min;VGS(1-2) 5.0mV max;yfs1/2 .97 min;CMRR 100dB min.
21	2N5516*	6	NØ	Si	R120	PC	Pt 375mW;IDSS1/2 .95 min;VGS(1-2) 5.0mV max;yfs1/2 .97 min;CMRR 100dB min.
22	2N5517*	6	NØ	Si	R120	PC	Pt 375mW,IDSS1/2 .95 min;VGS(1-2) 10mV max;yfs1/2 95 min;CMRR 90dB min
23	2N5518*	6	NØ	Si	R120	PC	Pt 375mW,IDSS1/2 .95 min,VGS(1-2) 15mV max,yfs1/2 .95 min;yos(1-2) 100nmho.max
24	2N5519*	6	NØ	Si	R120	PC	Pt 375mW,IDSS1/2 .90 min;VGS(1-2) 15mV max;yfs1/2 90 min,yos(1-2) 100nmho.max.
25	2N5520*	6	NØ	Si	R120	PC	Pt 375mW,IDSS1/2 .95 min;VGS(1-2) 5.0mV max;yfs1/2 97 min;CMRR 100dB min.
26	2N5521*	6	NØ	Si	R120	PC	Pt 375mW;IDSS1/2 .95 min,VGS(1-2) 5 0mV max;yfs1/2 97 max;CMRR 100dB min.
27	2N5522*	6	NØ	Si	R120	PC	Pt 375mW;IDSS1/2 .95 min;VGS(1-2) 10mV max;yfs1/2 .95 max;CMRR 90dB min.
28	2N5523*	6	NØ	Si	R120	PC	Pt 375mW;IDSS1/2 .95 min,VGS(1-2) 15mV max;yfs1/2 .95 max;yos(1-2) 100nmho.max.
29	2N5524*	6	NØ	Si	R120	PC	Pt 375mW;IDSS1/2 .90 min;VGS(1-2) 15mV max;yfs1/2 .90 max;yos(1-2) 100nmho.max.
30	2N5545*	6	N*Ø	Si	TO71	PJ	Pt-.40W,IDSS1/2-.95 min;ΔVGS(1-2)/ΔT-.8mV;Yos(1-2)-1.0umho.
31	JAN2N5545*	6	N	Si	TO71	PJ	Pt 400m both;yfs1/2 .970 min;VGS(1-2) 5.0mV max;ΔVGS(1-2)/ΔT 1.0mV max
32	2N5546*	6	N*Ø	Si	TO71	PJ	Pt-.40W;IDSS1/2-.90 min,ΔVGS(1-2)/ΔT-1.6mV;Yos(1-2)-2.0umho.
33	JAN2N5546*	6	N	Si	TO71	PJ	Pt 400m both;yfs1/2 .950 min;VGS(1-2) 10mV max;ΔVGS(1-2)/ΔT 2.0mV max.
34	2N5547*	6	N*Ø	Si	TO71	PJ	Pt- 40W;IDSS1/2- 90 min;ΔVGS(1-2)/ΔT-3.2mV;Yos(1-2)-3.0umho.
35	JAN2N5547*	6	N	Si	TO71	PJ	Pt 400m both;yfs1/2 900 min;VGS(1-2) 15mV max;ΔVGS(1-2)/ΔT 4.0mV max.
36	2N5561*	6	NØ	Si	TO71	PJ	Pt-500mW,IDSS1/2-.95min;VGS(1-2)-5mVmax;ΔVGS(1-2)/ΔT-500uVmax;yfs1/2-.97min.
37	2N5562*	6	NØ	Si	TO71	PJ	Pt-500mW,IDSS1/2-.95min;VGS(1-2)-10mVmax,ΔVGS(1-2)/ΔT-800uVmax;yfs1/2-.97min.
38	2N5563*	6	NØ	Si	TO71	PJ	Pt-5v0mW;IDSS1/2-.95min;VGS(1-2)-15mVmax,ΔVGS(1-2)/ΔT-2 0mVmax;yfs1/2-.95min
39	2N5564*	6	NØ	Si	TO71	PJ	Pt-650mW;IDSS1/2-.95min,VGS(1-2)-5mVmax;ΔVGS(1-2)/ΔT-800uVmax;yfs1/2-.95min.
40	2N5565*	6	NØ	Si	TO71	PJ	Pt-650mW;IDSS1/2-.95min;VGS(1-2)-10mVmax;ΔVGS(1-2)/ΔT-2.0mVmax;yfs1/2-.90min
41	2N5566*	6	NØ	Si	TO71	PJ	Pt-650mW;IDSS1/2-.95min;VGS(1-2)-20mVmax;ΔVGS(1-2)/ΔT-4.0mVmax;yfs1/2-.90min
42	2N5902*	6	NØ	Si	TO78	PE	Pt 500mW;IG(1-2) 2.0nA max;IDSS1/2 .95 min;VGS(1-2) 5.0mV max.
43	2N5903*	6	NØ	Si	TO78	PE	Pt 500mW;IG(1-2) 2.0nA max;IDSS1/2 .95 min;VGS(1-2) 5.0mV;yfs1/2 .97 min.
44	2N5904*	6	NØ	Si	TO78	PE	Pt 500mW;IG(1-2) 2.0nA max;IDSS1/2 .95 min,VGS(1-2) 10mV,yfs1/2 .95 min.
45	2N5905*	6	NØ	Si	TO78	PE	Pt 500mW;IG(1-2) 2.0nA max;IDSS1/2 .95 min;VGS(1-2) 15mV;yfs1/2 .95 min.
46	2N5906*	6	NØ	Si	TO78	PE	Pt 500mW;IG(1-2) 200pA max at 125°C;IDSS1/2 .95 min,VGS(1-2)5.0mV;yfs1/2 .97 min.
47	2N5907*	6	NØ	Si	TO78	PE	Pt 500mW;IG(1-2) at 125°C 200pA max,VGS(1-2) 5.0mV;yfs1/2 .97 min.
48	2N5908*	6	NØ	Si	TO78	PE	Pt 500mW;IG(1-2) at 125°C 200pA max;IDSS1/2 .95 min,VGS1-2) 10mV;yfs1/2 .95 min.
49	2N5909*	6	NØ	Si	TO78	PE	Pt 500mW;IG(1-2) at 125°C 200pA max;IDSS1/2 .95 min;VGS(1-2) 15mV;yfs1/2 95 min.
50	2N5911*	6	NØ		TO78	PE	Pt 500mW;IG(1-2) 20nA max;IDSS(1-2) .95 min;VGS (1-2) 10mV max.
51	2N5912*	6	NØ		TO78	PE	Pt 500mW;IG(1-2) 20nA max;IDSS(1-2) .95 min;VGS(1-2) 15mV max.
52	2N6085*	6	NØ	Si	TO78		Pt 600mW,hFE1/2 .70 min;VBE(1-2) 10mV;ΔVBE(1-2)/ΔT 4.0mV;Cc(1-2) 4.0pf.
53	2N6086*	6	NØ	Si	TO78		Pt 600mW;hFE1/2 70 min,VBE(1-2) 10mV;ΔVBE(1-2)/ΔT 4.0mV;Cc(1-2) 4.0pf.
54	2N6087*	6	NØ	Si	TO78		Pt 600mW;hFE1/2 .90 min;VBE(1-2) 3.0mV;ΔVBE(1-2)/ΔT 1.0mV;Cc(1-2) 4.0pf.
55	2N6088*	6	NØ	Si	TO78		Pt 600mW;hFE1/2 .90 min;VBE(1-2) 3.0mV;ΔVBE(1-2)/ΔT 1.0mV;Cc(1-2) 4.0pf
56	2N6089*	6	NØ	Si	TO78		Pt 600mW;hFE1/2 .80 min;VBE(1-2) 5.0mV;ΔVBE(1-2)/ΔT 2 0mV;Cc(1-2) 4 0pf.
57	2N6090*	6	NØ	Si	TO78		Pt 600mW;hFE1/2 .80 min;VBE(1-2) 5.0mV,ΔVBE(1-2)/ΔT 2.0mV;Cc(1-2) 4.0pf.
58	2N6091*	6	NØ	Si	TO78		Pt 600mW;hFE1/2 .90 min;VBE(1-2) 3.0mV;ΔVBE(1-2)/ΔT 1.0mV,Cc(1-2) 4.0pf.
59	2N6092*	6	NØ	Si	TO78		Pt 600mW;hFE1/2 90 min;VBE(1-2) 3.0mV;ΔVBE(1-2)/ΔT 1.0mV;Cc(1-2) 4.0pf.
60	2N6441*	6	NØ	Si	TO78		Pt 550mW;VBE1-2 10mV max,I1C-2C ±0.005uA.
61	2N6442*	6	NØ	Si	TO78		Pt 550mW;VBE1-2 10mV max;I1C-2C ±0.005uA.
62	2N6443*	6	NØ	Si	TO78		Pt 550mW;VBE1-2 5.0mV max;I1C-2C ±0.005uA.
63	2N6444*	6	NØ	Si	TO78		Pt 550mW,VBE1-2 5.0mV max,I1C-2C ±0.005uA.
64	2N6445*	6	NØ	Si	TO78		Pt 550mW;VBE1-2 3.0mV max;I1C-2C ±0.005uA
65	2N6446*	6	NØ	Si	TO78		Pt 550mW;VBE1-2 3.0mV max;I1C-2C ±0.005uA.
66	2N6447*	6	NØ	Si	TO78		Pt 550mW,VBE1-2 3.0mV max;I1C-2C ±0.005uA.
67	2N6448*	6	NØ	Si	TO78		Pt 550mW;VBE1-2 3.0mV max,I1C-2C ±0 005uA.
68	2N6483*	6	N#	Si	TO71	PJ	Pt 500mW;IDSS1/2 .95 min;VGS(1-2)5mV max,Yfs1/2 .97 min.
69	2N6484*	6	N#	Si	TO71	PJ	Pt 500mW;IDSS1/2 .95 min;VGS(1-2)10mV max,Yfs1/2 .97 min.
70	2N6485*	6	N#	Si	TO71	PJ	Pt 500mW;IDSS1/2 .95 min;VGS(1-2)15mV max;Yfs1/2 .95 min.
71#	2OC28	6	P-A	Ge	TO3		Matched Pair of OC28;hFE 1/2-1.2
72#	2OC29	6	P-A	Ge	TO3		Matched Pair of OC29;hFE 1/2-1.2
73#	2OC35	6	P-A	Ge	TO3		Matched Pair of OC35;hFE 1/2-1.2
74#	2OC36	6	P-A	Ge	TO3		Matched Pair of OC36;hFE 1/2-1.2
75#	2PT6	6	P-A	Ge	F4n	AØ	hFE1/hFE2 1.25 Max;Matched Pair Pt6;Pt 6W both sides
76#	2SA798	6	P	Si			Pt 400m both;hFE1/2 0.8 min;VBE(1-2)10m max.
77#	2SC294*	6	N-D	Si	R131h	PD	Pt 300mW(both sides)max;hFE1/2 .80 min;ΔVBE 10mV max
78#	2SC1583	6	N	Si			Pt 400m both;hFE1/2 0.8 min;VBE(1-2)10m max.
79#	2SC1910	6	N-PEΔ	Si	W35	PG	Pc 200mW;BVCBO 15V;hFE at 50mA-30 min;fT 6.0G min;Cob 1.5pF max;ΔVBE(1-2)30mV.
80#	2SC1911	6	N-PEΔ	Si	W35	PG	Pc 150mW;BVCBO 20V;hFE at 10mA-40 min;fT 5.0G min;Cob 80pF max;ΔVBE(1-2)15mV.
81#	2SC1912	6	N-PEΔ	Si	W35	PH	Pc 150mW;BVCBO 20V;hFE at 10mA-40 min;fT 5.0G min;Cob .80pF max;ΔVBE(1-2)15mV.
82#	2SC1920	6	N-PEΔ	Si	W35	PH	Pc 200mW;BVCBO 15V;hFE at 30mA-30 min;fT 6.0G min;Cob 1.5pF max;ΔVBE(1-2)30mV.
83▼#	2SK109*	6	N	Si	B34	RC	VGS(1-2) 50mV max;IDSS 1/2 0.85 min;Yfs 1/2 0.9 min
84	3N151*	6	P	Si	TO77	PY	Pt 325mW,ID1/2 .90 min;VGS(1-2)250mV;yfs1/2 .80 min;Vos(1-2).01mmho
85	3N165*	6	PΔ	Si	TO99		Pt-525mW;yfs1/2-.90min;VGS(th)(1-2)-100mVmax;tr-30nS;ton-15nS;toff-50nS.
86	3N188*	6	PMOSΔ	Si	TO99	QC	Pt 525mW;yfs1/2 .85 min;VGS(th)1-2 100mV;tr 30nS;tr 30nS;toff 50nS;td 15nS.
87	3N190*	6	PMOSΔ	Si	TO99	QC	Pt 525mW;yfs1/2 .85 min;VGS(th)1-2 100mV;tr 30nS;td 15nS;toff 50nS.
88	3N207	6	P-MOS*	Si	TO76	PY	Pt 600mW;ΔVGS1/2 200mV max.
89#	40809	6	P-N	Ge	TO1	A	Matched Pair of AC127 and AC128
90#	ADY27*	6	P-A	Ge	F9d	CØ	hFE1/hFE2 1.25 max;Pt 27.5W;ICEV 150uA;ft 450kHz.
91♦#	BC140-6*	6	N-PEΔ	Si	TO39	AØ	Pt 3.7W at 45°C case;Vsat 1.0V max;hFE 1/2 1.25 max
92♦#	BC140-10*	6	N-PEΔ	Si	TO39	AØ	Pt 3.7W at 45°C case;Vsat 1.0V max,hFE 1/2 1.25 max
93♦#	BC140-16*	6	N-PEΔ	Si	TO39	AØ	Pt 3.7W at 45°C case;Vsat 1.0V max;hFE 1/2 1.25 max
94♦#	BC141-6*	6	N-PEΔ	Si	TO39	AØ	Pt 3.7W at 45°C case;Vsat 1.0V max;hFE 1/2 1.25 max
95♦#	BC141-10*	6	N-PEΔ	Si	TO39	AØ	Pt 3.7W at 45°C case;Vsat 1.0V max;hFE 1/2 1.25 max
96♦#	BC141-16*	6	N-PEΔ	Si	TO39	AØ	Pt 3.7W at 45°C case;Vsat 1.0V max;hFE 1/2 1.25 max
97▼#	BC160-6*	6	P-PEΔ	Si	TO39	AØ	Pt 3.7W at 45°C case,Vsat 1.0V max;hFE 1/2 1.25 max
98▼#	BC160-10*	6	P-PEΔ	Si	TO39	AØ	Pt 3.7W at 45°C case;Vsat 1.0V max;hFE 1/2 1.25 max
99▼#	BC160-16*	6	P-PEΔ	Si	TO39	AØ	Pt 3.7W at 45°C case;Vsat 1.0V max;hFE 1/2 1.25 max
100▼#	BC161-6*	6	P-PEΔ	Si	TO39	AØ	Pt 3.7W at 45°C case,Vsat 1 0V max;hFE 1/2 1.25 max
101▼#	BC161-10*	6	P-PEΔ	Si	TO39	AØ	Pt 3.7W at 45°C case;Vsat 1.0V max;hFE 1/2 1.25 max
102▼#	BC161-16*	6	P-PEΔ	Si	TO39	AØ	Pt 3.7W at 45°C case,Vsat 1.0V max;hFE 1/2 1.25 max
103	BC328/BC338	6	P-PE	Si	TO92	F	hFE1/2 1.25 typ, 1.4 max;Pt 500mW;BVCES 30V;ft 100MHz.
104	BC337/BC327	6	N-PE	Si	TO92	F	hFE1/2 1.25 typ, 1 4 max;Pt 500mW;BVCES 50V;ft 100MHz
105#	BCW25*	6	NPL	Si	R131		Pt-600mW;hFE1/2-1.0max;VBE(1-2)-20mV max;VBE(1-2)ΔTA-30uV/°C max.
106#	BCY55*	6	N-PLØ	Si	F37		Pt 300mW;IC1/2 .85 min;VBE(1-2) 4 0mV max;ΔV/ΔT 3.0uV/°C;ΔI/ΔT 1.5nA/°C
107#	BCY87	6	N-PLØ	Si	TO71	PS	VBE(1-2)-3.0mV max;IB(1-2)-25nA max;ΔV/ΔT-1 0uV/deg C.
108#	BCY88	6	N-PLØ	Si	TO71	PS	VBE(1-2)-6.0mV max;IB(1-2)-80nA max;ΔV/ΔT-2 0uV/deg.C.
109#	BCY89	6	N-PLØ	Si	TO71	PS	VBE(1-2)-10mV max;IB(1-2)-300nA max,ΔV/ΔT-4.0uV/deg C
110	BD181*	6	N-D	Si	TO3	CØ	BVCBO 55V;Pt 78W,hFE1/hFE2 1.3 max at Ic 3.0A,VCE 4.0V.

14. MISCELLANEOUS TRANSISTORS

LINE No.	[2] TYPE No.	[1] USE	CATEGORY STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CODE	DESCRIPTION
1	MD1120	6	N	Si	R131b		hFE-30/120 at IC-100uA;VBE(1-2) max-10mV at IC-100uA.
2	MD1120F	6	N-AN	Si	X22	PB	hFE 30/120 at IC 100uA;VBE(1-2)max 10mV at IC 100uA.
3	MD1121	6	N	Si	R131b		hFE-30/120 at IC-100uA;VBE(1-2) max-10mV at IC-100uA.
4	MD1122	6	N	Si	R131b		hFE-30/120 at IC-100uA,VBE(1-2) max-10mV at IC-100uA.
5	MD1123	6	P	Si	R131		hFE-30/120 at Ic-100uA;(VBE1-VBE2) max.-10mV at Ic-100uA
6	MD1129*	6	NAN	Si	R131b	PA	Pd 625mW(ALL);hFE1/2 0.9 min -1 max;VBE(1-2)5mVdc;ΔVBE(1-2)0.8mVdc.
7	MD1129F*	6	NAN	Si	X22	PB	Pd 400mW(ALL);hFE1/2 0.9 min-1 max;VBE(1-2)5mVdc;ΔVBE(1-2)1mVdc.
8	MD1130	6	P	Si	R131b		hFE-100/300 at IC-100uA;VBE1/2-5.0mV max. at IC-100uA.
9	MD1130F	6	P-AN	Si	X22	PB	hFE 100/300 at IC 100uA;VBE 1/2 5.0mV at IC 100uA.
10	MD1132*	6	N-AN	Si	TO99	PA	Pd 600mW(both sides);hFE1/2 .90 min;VBE(1-2) 5.0mVdc;ΔVBE(1-2) .80mVdc.
11	MD2369A*	6	N-AN	Si	TO99	PA	Pd 600mW(both sides);hFE1/2 .90;VBE(1-2) 5mV;ΔVBE(1-2)/ΔTA 10uV/°C;ton 15,toff 20ns.
12	MD2369AF*	6	N-AN	Si	TO89	PB	Pd 400mW(both sides);hFE1/2 .90;VBE(1-2) 5mV;ΔVBE(1-2)/ΔTA 10uV/°C;ton 15,toff 20ns.
13	MD2369B*	6	N-ANΔ	Si	TO99	PA	Pd 600mW(both sides);hFE1/2 .80;VBE(1-2) 10mV;ΔVBE(1-2)/ΔTA 20uV/°C;ton 15,toff 20ns
14	MD2369BF*	6	N-ANΔ	Si	TO89	PB	Pd 400mW(both sides);hFE1/2 .80;VBE(1-2) 10mV;ΔVBE(1-2)/ΔTA 20uV/°C;ton 15,toff 20ns
15#	MD2974*	6	N-PLØ	Si	R148a		Pd 250mW(both sides);hFE1/2 .90 min;VBE(1-2) 5.0mV max;ΔVBE(1-2) 800uV max.
16#	MD2975*	6	N-PLØ	Si	R148a		Pd 250mW(both sides);hFE1/2 .90 min;VBE(1-2) 5.0mV max;ΔVBE(1-2) 800uV max.
17#	MD2978*	6	N-PLØ	Si	R148a		Pd 250mW(both sides);hFE1/2 .90 min;VBE(1-2) 5.0mV max;ΔVBE(1-2) 800uV max.
18#	MD2979*	6	N-PLØ	Si	R148a		Pd 250mW(both sides);hFE1/2 .90 min;VBE(1-2) 5.0mV max;ΔVBE(1-2) 800uV max.
19	MD3250A*	6	P-AN	Si	R131f	PA	Pd 625mW(both sides);hFE1/2 .900 min;VBE(1-2) 3.0mdc;ΔVBE1/2 .800mVdc.
20	MD3250AF*	6	P-AN	Si	X22		Pd 400mW(both sides);hFE1/2 .900 min;VBE(1-2) 3.0mdc;ΔVBE1/2 .800mVdc.
21	MD3251A*	6	P-AN	Si	R131f	PA	Pd 625mW(both sides);hFE1/2 .900 min;VBE(1-2) 3.0mdc;ΔVBE1/2 .800mVdc.
22	MD3251AF*	6	P-AN	Si	X22		Pd 400mW(both sides);hFE1/2 .900 min;VBE(1-2) 3.0mdc;ΔVBE1/2 .800mVdc.
23	MD3409*	6	N-AN	Si	TO99	PA	Pd 625mW(both sides);ΔVBE(1-2) 1.6mVdc.
24	MD3410*	6	N-AN	Si	TO99	PA	Pd 625mW(both sides);ΔVBE(1-2) 80mVdc.
25	MD4260*	6	PAN	Si	R131b	PA	Pd 600mW(Both);hFE1/2 0.8 min - 1 max;VBE(1-2)10mVdc.
26	MD4261*	6	PAN	Si	R131b	PA	Pd 600mW(Both);hFE1/2 0.8 min - 1 max;VBE(1-2)10mVdc.
27	MD5000*	6	P-EA	Si	TO99	PA	Pd(both sides)-400mW,VCEO-15V;hFE1/2- 70 min;VBE(1-2)-5.0mV max.
28	MD5000A*	6	P-EA	Si	TO99	PA	Pd(both sides)-400mW;VCEO-15V;hFE1/2-.90 min;VBE(1-2)-5.0mV max
29	MD5000B*	6	P-EA	Si	TO99	PA	Pd(both sides)-400mW;VCEO-15V;hFE1/2- 80 min;VBE(1-2)-10mV max.
30	MD8001*	6	N-AN	Si	R131f	PA	Pd 625mW(both side);VBE(1-2)15mVdc max;IEBO 50nAdc max;Cib 2.3pF typ
31	MD8002*	6	N-AN	Si	R131f	PA	Pd 625mW(both sides);VBE(1-2)15mVdc max;IEBO 50nAdc max;Cib 2.3pF typ.
32	MD8003*	6	N-AN	Si	R131f	PA	Pd 625mW(both sides);VBE(1-2)15mVdc max;IEBO 50nAdc max;Cib 2.3pF typ.
33	MEM551*	6	P	Si	TO77	PY	Pt-112mW;Yfs1/2-.80 min;Gfs(1-2)-200mV max;VGST-6.0V max.
34	MEM551C*	6	P	Si	TO77	PY	Pt 85mW;Yfs1/2 .80 min,Gfs (1-2) 200mV max;VGST 6.0V max.
35	MEM954*	6	P	Si	TO77	PY	Pt 325mW At Case;yfs1/2 1.0 max;VGS(1-2)75mV max;VGS(1-2)/ΔT 150uV/°C max
36	MEM954A*	6	P	Si	TO77	PY	Pt 325mW At Case;yfs1/2 1.0 max;VGS(1-2)25mV max;VGS(1-2)/ΔT 50uV/°C max
37	MEM954B*	6	P	Si	TO77	PY	Pt 325mW at Case;yfs 1/2 1.0max;VGS(1-2) 10mVmax;VGS(1-2)/ΔT 25uV/°Cmax
38	MEM955*	6	P	Si	TO77	PY	Pt 325mW at Case;yfs1/2 1.0 max;VGS(1-2) 75mV max;VGS(1-2)/ΔT 150uV°/C max.
39	MEM955A*	6	P	Si	TO77	PY	Pt 325mW at Case;yfs1/2 1.0 max;VGS(1-2) 25mV max;VGS(1-2)/ΔT 50uV°/C max.
40	MEM955B*	6	P	Si	TO77	PY	Pt 325mW at Case;yfs1/2 1.0 max;VGS(1-2) 10mV max;VGS(1-2)/ΔT 25uV°/C max.
41	MMF1*	6	N	Si	R206	DH	yfs1/2 .98 min;VGS(1-2) 5.0mVdc max;IDSS1/2 .95;Yos1/2 1.0umΩ max.
42	MMF2*	6	N	Si	R206	DH	yfs1/2 .98 min;VGS(1-2) 5.0mVdc max;IDSS1/2 .95;Yos1/2 1.0umΩ max.
43	MMF3*	6	N	Si	R206	DH	yfs1/2 .98 min;VGS(1-2) 5.0mVdc max;IDSS1/2 90;Yos1/2 1.0umΩ max.
44	MMF4*	6	N	Si	R206	DH	yfs1/2 .98 min;VGS(1-2) 5.0mVdc max;IDSS1/2 .90;Yos1/2 1.0umΩ max.
45	MMF5*	6	N	Si	R206	DH	yfs1/2 .98 min;VGS(1-2) 5.0mVdc max;IDSS1/2 .90;Yos1/2 1.0umΩ max.
46	MMF6*	6	N	Si	R206	DH	yfs1/2 .98 min;VGS(1-2) 5.0mVdc max,IDSS1/2 .90;Yos1/2 1.0umΩ max.
47	NDF9401*	6	N-EØ	Si	TO78	PE	Pt 500mW;VGS(1-2)-5.0mV;ΔVGS(1-2)-5 0uV/°C;Yfs1/2 .97 min;CMRR 120db min.
48	NDF9402*	6	N-EØ	Si	TO78	PE	Pt 500mW;VGS(1-2)-5.0mV,ΔVGS(1-2)-10uV/°C;Yfs1/2 .97 min;CMRR 120db min.
49	NDF9403*	6	N-EØ	Si	TO78	PE	Pt 500mW;VGS(1-2)-10mV;ΔVGS(1-2)-10uV/°C;Yfs1/2 .95 min;CMRR 110db min.
50	NDF9404*	6	N-EØ	Si	TO78	PE	Pt 500mW;VGS(1-2)-15mV;ΔVGS(1-2)-10uV/°C;Yfs1/2 .95 min;CMRR 110db min.
51	NDF9405*	6	N-EØ	Si	TO78	PE	Pt 500mW;VGS(1-2)-25mV;ΔVGS(1-2)-25uV/°C;Yfs1/2 .90 min;CMRR 100db min.
52	NDF9406*	6	N-EØ	Si	R120	PC	Pt 375mW;VGS(1-2)-5.0mV;ΔVGS(1-2)-5 0uV/°C;Yfs1/2 .97 min;CMRR 120db min.
53	NDF9407*	6	N-EØ	Si	R120	PC	Pt 375mW;VGS(1-2)-5.0mV;ΔVGS(1-2)-10uV/°C;Yfs1/2 .97 min;CMRR 120db min.
54	NDF9408*	6	N-EØ	Si	R120	PC	Pt 375mW;VGS(1-2)-10mV;ΔVGS(1-2)-10uV/°C;Yfs1/2 .95 min;CMRR 110db min.
55	NDF9409*	6	N-EØ	Si	R120	PC	Pt 375mW;VGS(1-2)-15mV;ΔVGS(1-2)-10uV/°C;Yfs1/2 .95 min;CMRR 110db min
56	NDF9410*	6	N-EØ	Si	R120	PC	Pt 375mW;VGS(1-2)-25mV;ΔVGS(1-2)-25uV/°C;Yfs1/2 .90 min;CMRR 100db min.
57	SA2253*	6	N	Si	TO5		BVCBO-40V min;hFE1/hFE2-.7/1.0;VBE1-VBE2-20mV at IC-100uA
58	SA2254	6	N	Si	TO5		hFE1/hFE2-.8-1.0;VBE1-VBE2-10mV at Ic-100uA;BVCBO-60V min.
59	SA2255	6	N	Si	TO5		BVCBO-45V min;hFE1/hFE2-.8-1.0;VBE1-VBE2-10mV at Ic-50uA
60	SA2644*	6	N-PE	Si	TO77		Pt-6W;hFE1/2-.90 min,VBE(1-2)-2mV max;ΔVBE(1-2)/ΔT-.50mV max.
61	SA2648*	6	N-PF	Si	TO77		Pt-6W;hFE1/2-.9 min;VBE(1-2)-2mV max;ΔVBE1-2/ΔT-.3mV max.
62	SA2710*	6	N	Si	R131c		Pt-6W;hFE1/2-.90 min;VBE(1-2)-2mV max;ΔVBE(1-2)/ΔT-3uV/deg.C.
63	SA2711*	6	N	Si	R131c		Pt-6W;hFE1/2-.90 min;VBE(1-2)-2mV max;ΔVBE(1-2)/ΔT-3uV/deg.C.
64	SA2712*	6	N	Si	R131c		Pt-6W;hFE1/2-.90 min;VBE(1-2)-3mV max;ΔVBE(1-2)/ΔT-5uV/deg.C.
65	SA2713*	6	N	Si	R131c		Pt-6W;hFE1/2-.80 min;VBE(1-2)-3mV max;ΔVBE(1-2)/ΔT-5uV/deg.C.
66	SA2714*	6	N	Si	R131c		Pt-6W;hFE1/2-.80 min;VBE(1-2)-5mV max,ΔVBE(1-2)/ΔT-10uV/deg.C.
67	SA2715*	6	N	Si	R131c		Pt-6W;hFE1/2-.90 min;VBE(1-2)-2mV max,ΔVBE(1-2)/ΔT-3uV/deg.C.
68	SA2716*	6	N	Si	R131c		Pt-6W;hFE1/2-.90 min;VBE(1-2)-2mV max;ΔVBE(1-2)/ΔT-3uV/deg.C.
69	SA2717*	6	N	Si	R131c		Pt-6W;hFE1/2-.90 min;VBE(1-2)-3mV max;ΔVBE(1-2)/ΔT-5uV/deg.C.
70	SA2718*	6	N	Si	R131c		Pt-6W,hFE1/2-.80 min,VBE(1-2)-5mV max;ΔVBE(1-2)/ΔT-10uV/deg.C.
71	SA2719*	6	N	Si	R131c		Pt-6W;hFE1/2-.90 min;VBE(1-2)-2mV max;ΔVBE(1-2)/ΔT-3uV/deg.C.
72	SA2720*	6	N	Si	R131c		Pt-6W;hFE1/2-.90 min;VBE(1-2)-3mV max;ΔVBE(1-2)/ΔT-5uV/deg.C.
73	SA2721*	6	N	Si	R131c		Pt-6W;hFE1/2-.80 min;VBE(1-2)-5mV max;ΔVBE(1-2)/ΔT-10uV/deg.C.
74	SA2722*	6	N	Si	R131c		Pt-6W;hFE1/2-.90 min;VBE(1-2)-2mV max;ΔVBE(1-2)/ΔT-3uV/deg.C.
75	SA2723*	6	N	Si	R131c		Pt-6W;hFE1/2-.90 min;VBE(1-2)-3mV max;ΔVBE(1-2)/ΔT-5uV/deg.C.
76	SA2724*	6	N	Si	R131c		Pt-6W;hFE1/2-.80 min;VBE(1-2)-5mV max;ΔVBE(1-2)/ΔT-10uV/deg.C.
77	SA2738*	6	N	Si	R131c		Pt-6W;hFE1/2-.90 min;VBE(1-2)-1.5mV max;ΔVBE(1-2)/ΔT-3uV/deg.C.
78	SA2739*	6	N	Si	R131c		Pt-6W;hFE1/2-.90 min;VBE(1-2)-2.5mV max;ΔVBE(1-2)/ΔT-5uV/deg.C.
79#	SFT918	6	N-PL	Si	TO77		Pt-300mW each,ft-600 MHz min;hFE-50 min.
80#	SFT918A	6	N-PL	Si	TO77		Pt-300mW each;ft-600 MHz min;hFE 1/2-.90 min;VBE (1-2)-5.0mV max.
81#	SFT918B	6	N-PL	Si	TO77		Pt-300mW each;ft-600 MHz min;hFE 1/2-.80 min,VBE (1-2)-10mV max.
82#	SL301AE*	6	N	Si	S17	QR	BVCBO 35V;BVCEO 16V;IC 50mA;hFE(1-2)900m;VCE 600mV;ΔVBE(1-2)3.0mV
83#	SL301AT*	6	N	Si	TO78	PD	BVCBO 35V;BVCEO 16V;IC 50mA;hFE(1-2)900m;VCE 600mV;ΔVBE(1-2)3.0mV
84#	SL301BE*	6	N	Si	S17	QR	BVCBO 30V;BVCEO 12V;IC 50mA;hFE(1-2)500m;VCE 1.0V;ΔVBE(1-2)12mV
85#	SL301BT*	6	N	Si	TO78	PD	BVCBO 30V;BVCEO 12V;IC 50mA,hFE(1-2)500m;VCE 1.0V;ΔVBE(1-2)12mV
86#	SL301CE*	6	N	Si	S17	QR	BVCBO 25V;BVCEO 10V;IC 50mA;VCE 600mV
87#	SL301CT*	6	N	Si	TO78	PD	BVCBO 25V;BVCEO 10V,IC 50mA,VCE 600mV
88#	SL301EE*	6	N	Si	S17	QR	BVCBO 30V;BVCEO 12V,IC 50mA;hFE(1-2)800m;VCE 600mV;ΔVBE(1-2)5mV
89#	SL301ET*	6	N	Si	TO78	PD	BVCBO 30V;BVCEO 12V;IC 50mA;hFE(1-2)800m;VCE 600mV;ΔVBE(1-2)5mV
90#	SL360C	6	N	Si	R131	PQ	Pt 600mW;BVCBO 15V;BVCEO8V;BVEBO 4 8V;BVE(1-2) 10mVmax;hFE1/2 1.1typ.
91#	SL362C	6	N	Si	TO78	PD	Pt 300mW;BVCBO 12V;BVCEO 8V;BVEBO 5V;VBE(1-2)5mV typ;ft 1.6GHz typ
92	SP2060F	6	N	Si	TO89		Pt-350mW(both sides);hFE 1/2-.90min;VBE(1-2)-5.0mV max;ΔVBE(1-2)/ΔT-10uV/°C.
93	SP2223AF	6	N	Si	TO89		Pt-350mW(both sides);hFE 1/2-.80min;VBE(1-2)-15mV max,ΔVBE(1-2)/ΔT-25mV/°C.
94	SP2920F	6	N	Si	TO89		Pt-350mW(both sides);hFE 1/2-.90min;VBE(1-2)-5.0mV;ΔVBE(1-2)-800uV.
95	SU2078*	6	N	Si	TO71	PE	Pt 250mW;gm1/2 .95 min;VGS(1-2) 15mV max;ΔVGS(1-2)/ΔT 25uV/°C.
96	SU2079*	6	N	Si	TO71	PE	Pt 250mW;gm1/2 .95 min;VGS(1-2) 15mV max;ΔVGS(1-2)/ΔT 60uV/°C.
97	SU2080*	6	N	Si	TO71	PJ	Pt-250mW; gm1/2-.90 min;VGS(1-2)-15mV max;ΔVGS(1-2)/ΔT-35uV/Deg.C.
98	SU2081*	6	N	Si	TO71	PJ	Pt-250mW; gm1/2-.90 min;VGS(1-2)-15mV max;ΔVGS(1-2)/ΔT-60uV/Deg.C.
99	SU2098*	6	N	Si	TO71	PJ	Pt-3W;gm1/2-.95 min;VGS(1-2)-5mV;ΔVGS(1-2)/ΔT-10uV/deg.C max.
100	SU2098A*	6	NØ*	Si	TO71	PJ	Pt 300mW;gm1/2 .95 min;VGS(1-2)5.0mV;ΔVGS(1-2)/ΔT 10uV/°C max.
101	SU2098B*	6	NØ*	Si	TO71	PJ	Pt 300mW;gm1/2 .95 min;VGS(1-2)5.0mV;ΔVGS(1-2)/ΔT 25uV/°C max.
102	SU2099*	6	N	Si	TO71	PJ	Pt-3W;gm1/2-.95 min;VGS(1-2)-5mV;ΔVGS(1-2)/ΔT-25uV/deg.C max.
103	SU2099A*	6	NØ*	Si	TO71	PJ	Pt 300mW;gm1/2 .95 min;VGS(1-2)5.0mV;ΔVGS(1-2)/ΔT 5.0uV/°C max.
104	SU2365*	6	NØ	Si	TO71	PJ	Pt 300mW;VGS(1-2) 5mV max;ΔVGS/ΔT 10uV/°C max.
105	SU2365A*	6	NØ	Si	TO71	PJ	Pt 300mW,VGS(1-2) 5mV max;ΔVGS/ΔT 10uV/°C max.
106	SU2366*	6	NØ	Si	TO71	PJ	Pt 300mW;VGS(1-2) 10mV max;ΔVGS/ΔT 10uV/°C max.
107	SU2366A*	6	NØ	Si	TO71	PJ	Pt 300mW;VGS(1-2) 10mV max;ΔVGS/ΔT 10uV/°C max.
108	SU2367*	6	NØ	Si	TO71	PJ	Pt 300mW;VGS(1-2) 10mV max;ΔVGS/ΔT 25uV/°C max.
109	SU2367A*	6	NØ	Si	TO71	PJ	Pt 300mW;VGS(1-2) 10mV max;ΔVGS/ΔT 25uV/°C max.
110	SU2368*	6	NØ	Si	TO71	PJ	Pt 300mW;VGS(1-2) 15mV max;ΔVGS/ΔT 25uV/°C max.

14. MISCELLANEOUS TRANSISTORS

LINE No.	2 TYPE No.	1 CATEGORY USE	STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG	DESCRIPTION
1	2N2418A	9	P	Si	R33c	CC	Pt 300mW;RBB 9 1kΩ max;n .62 max;VEB1(sat) 5.0V max;Iv 8.0mA min.
2	JAN2N2418A	9	P	Si	TO72	CA	Pt 35W,VB2E 60V,RBB 9.1kΩ max,n .62 max;Ip 12uA max.
3	2N2418B	9	P	Si	R33c	CC	Pt 300mW;RBB 9 1kΩ max;n .62 max;Ip 6.0uA max;VOB1 3.0V min.
4	2N2419	9	P	Si	R33c	CC	Pt 300mW;RBB 6.8kΩ max,n .68 max,Ip 12uA max;IB 2(MOD) 22mA max
5	2N2419A	9	P	Si	R33c	CC	Pt 300mW;RBB 6.8kΩ max,n .68 max;VEB1(sat) 5.0V max;Iv 8.0mA min
6	JAN2N2419A	9	P	Si	TO72	CA	Pt .35W;VB2E 60V;RBB 6.8kΩ max;n 68 max,Ip 12uA max.
7	2N2419B	9	P	Si	R33c	CC	Pt 300mW;RBB 6.8kΩ max;n .68 max;Ip 6.0uA max,VOB1 3.0V min.
8	2N2420	9	P	Si	R33c	CC	Pt 300mW,RBB 9.1kΩ max,n .68 max;Ip 12uA max,IB 2(MOD) 22mA max.
9	2N2420A	9	P	Si	R33c	CC	Pt 300mW;RBB 9 1kΩ max;n 68 max,VEB1(sat) 5.0V max;Iv 8.0mA min.
10	JAN2N2420A	9	P	Si	TO72	CA	Pt 35W;VB2E 60V,RBB 9 1kΩ max;n .68 max;Ip 12uA max.
11	2N2420B	9	P	Si	R33c	CC	Pt 300mW;RBB 9 1kΩ max,n .68 max,Ip 6 0uA max;VOB1 3.0V min.
12	2N2421	9	P	Si	R33c	CC	Pt 300mW;RBB 6.8kΩ max;n .75 max;Ip 12uA max;IB 2(MOD) 22mA max.
13	2N2421A	9	P	Si	R33c	CC	Pt 300mW,RBB 6.8kΩ max;n 75 max;VEB1(sat) 5.0V max;Iv 8.0mA min.
14	JAN2N2421A	9	P	Si	TO72	CA	Pt .35W,VB2E 60V,RBB 6 8kΩ max;n .75 max;Ip 12uA max.
15	2N2421B	9	P	Si	R33c	CC	Pt 300mW;RBB 6 8kΩ max;n 75 max;Ip 6.0uA max,VOB1 3.0V min.
16	2N2422	9	P	Si	R33c	CC	Pt 300mW,RBB 9 1kΩ max;n .75 max;Ip 12uA max;IB 2(MOD) 22mA max.
17	2N2422A	9	P	Si	R33c	CC	Pt 300mW,RBB 9 1kΩ max;n .75 max;VEB1(sat) 5.0V max;Iv 8.0mA min.
18	JAN2N2422A	9	P	Si	TO72	CA	Pt .35W;VB2E 60V,RBB 9.1kΩ max;n .75 max;Ip 12uA max.
19	2N2422B	9	P	Si	R33c	CC	Pt 300mW;RBB 9.1kΩ max;n .75 max,Ip 6 0uA max;VOB1 3.0V min
20	2N2646	9	P	Si	TO72	CC§	Pt .30W,VB2E 30V;VB2B1 35V;RBBO 9.1kΩ max;VOB1 3V;IP 5uA;n .56-.75;IV 4mA min
21	2N2647	9	P	Si	TO72	CC§	Pt .30W;VB2E 30V;VB2B1 35V;RBBO 9.1kΩ max,VOB1 6V;IP 2uA;n .68-.82,IV 8-18mA
22	2N2840	9	P	Si	TO72	CAØ	Pt .30W;VB2E 30V;VBB 35V;Ip 10uA max;Iv .70mA max.
23	2N3479	9	P	Si	R33	GF	Pc 40W;RBB 9 1kohms max;n 62 max;Iv 4 0mA min;Ip 20uA max.
24	2N3480	9	P	Si	R33	GF	Pc 40W,RBBO 9.1kohms max,n .75 max;Iv 4.0mA min,Ip 20uA max.
25	2N3481	9	P	Si	R33	GF	Pc 40W;RBBO 9 1kohms max,n .85 max;Iv 4.0mA min,Ip 20uA max.
26	2N3483	9	P	Si	R33	GF	Pc 40W;RBBO 9.1kΩ max;n .72 max;Iv 4 0mA min;Ip 5.0uA max
27	2N3484	9	P	Si	R33	GF	Pc .40W;RBBO 9 1kohms max;n .85 max;Iv 4.0mA min;Ip 5 0uA max.
28	2N3980	9	P	Si	TO72	CA	Pt .36W;Ie 50mA;RBB 8.0kohms;n .82 max,Ip 2.0uA max,Iv 10mA max.
29	2N4851	9	P	Si	TO72	CA	Pd 30W,RBB 9 1kohms max,n .75 max,Iv 2.0mA max;Ip 2.0uA max,Ie(DC).
30	2N4852	9	P	Si	TO72	CA	Pd .30W,RBB 9 1kohms max,n .85 max;Iv 4.0mA max,Ip 2.0uA max.
31	2N4853	9	P	Si	TO72	CA	Pt 300mW;n 85 max;RBBO 9 1kΩ max;Iv 6.0mA min;Ip 400nA max.
32	2N4870	9	P	Si	TO92	CB	Pd .30W;VB2B1 35V max;Iv 2 0mA min;VOB1 3.0V min,n 75 max.
33	2N4871	9	P	Si	TO92	CB	Pd 30W;VB2B1 35V max;Iv 4 0mA min;VOB1 5.0V min;n .85 max
34	2N4891	9	P	Si	R203	CG	Pt 360mW;RBB 9.1kΩ max;n .82 max;VEB1(sat) 4 0V max;VOB1 3 0V min;Ip 5 0uA max
35	2N4892	9	P	Si	R203	CG	Pt 360mW;RBB 9.1kΩ max;n .69 max;VEB1(sat) 4.0V max;VOB1 3 0V min;Ip 2.0uA max.
36	2N4893	9	P	Si	R203	CG	Pt 360mW,RBB 12kΩ max;n 82 max;VEB1(sat) 4.0V max,VOB1 6.0V min;Ip 2.0uA max.
37	2N4894	9	P	Si	R203	CG	Pt 360mW,RBB 12kΩ max;n .86 max;VEB1(sat) 4.0V max;VOB1 3.0V min,Ip 1.0uA max.
38	2N4947	9	P	Si	R33a	CC§	Pt .36W;RBB 9.1kohms max;n 69 max;Ip 2.0uA max.
39	JAN2N4947	9	P	Si	R33a	CA	Pt-360mW;RBBO-9.1kΩ max;n-.69 max;Ip-2.0uA max;VB2E-30V
40	2N4948	9	P	Si	R33a	CC§	Pt 36W;RBB 12kohms max;n .82 max,Ip 2.0uA max.
41	JAN2N4948	9	P	Si	R33a	CA	Pt-360mW;RBBO-12kΩ max,n-.82 max;Ip-2.0uA max;VB2E-30V
42	2N4949	9	P	Si	R33a	CC§	Pt 36W;RBB 12kohms max,n .86 max;Ip 1 0uA max.
43	JAN2N4949	9	P	Si	R33a	CA	Pt-360mW;RBBO-12kΩ max;n-.86 max;Ip-1.0uA max;VB2E-30V.
44	2N5431	9	P	Si	R33c	CA	Pt .30W;n .80 max;RBB 8.5kohms,Ip 4 0uA max;Iv 2.0mA min
45	JAN2N5431	9	P	Si	R33a	CC	Pt 300mW,Ie 50mA;RBBO 8.5kΩ max,n .80 max;Iv 2.0mA min;Ip 400nA max
46	2N6114	9	N	Si	R149	CC	Pt 300mW;IP 5.0uA;IV 1.0mA;RBB 8.2kΩ max;VOB1 3 5V min;n .62 max
47	2N6115	9	N	Si	R149	CC	Pt 300mW;IP 15uA;IV 1.0mA;RBB 15kΩ max,VOB1 3.5V min;n .62 max.
48	2N6119	9	P	Si	TO18	CEØ	Pt 400mW;VT 1.6V max;IP 5.0uA max;IV 1.5mA max;VO 9.0V max;VF 1.0V max.
49	2N6120	9	P	Si	TO18	CEØ	Pt 400mW;VT 600mV max;IP 1.0uA max;IV 1.0mA max;VO 9.0V max;VF 1.0V max
50#	2SH11	9	N	Si	TO5		Pc-450mW;N- 58/.75,VBB-4500ohms;Ie(DC)-50mA.
51#	2SH20	9	N	Si	TO18	CB	Pt 200mW;n .90 max;RBB 4.0kohms min,IV 2.0mA min;IP 8.0uA min.
52#	2SH21	9	N	Si	TO18	CB	Pt 250mW;N 0 85 max;RBB 4kΩ min;IV 4.0mA min;IP 4.0uA max
53	A5T6116	9	N	Si	R203	CE	Pt 300mW,Vp-Vs 1.6V max;Ip 5 0uA max;Iv 70uA max;Vo 6 0V max;tr 80ns max
54	A5T6117	9	N	Si	R203	CE	Pt 300mW;Vp-Vs 0 6V max;Ip 2 0uA max;Iv 50uA max;Vom 6.0V max;tr 80ns max.
55	A5T6118	9	N	Si	R203	CE	Pt 300mW,Vp-Vs 0.6V max;Ip 1.0uA max;Iv 50uA max;Vom 6.0V max;tr 80ns max
56	A7T6027	9	N	Si	TO92	CF	Pt 300mW;Vp-Vs 1 6V max;Ip 2.0uA max;Iv 50uA max;IGAO 10nA max;Vom 6.0V max.
57	A7T6028	9	N	Si	TO92	CF	Pt 300mW;Vp-Vs 0.6V max;Ip 150nA max;Iv 25uA max;IGAO 10nA max;Vom 6.0V max.
58#	BSV57B	9	P†	Si	R186	CB	RBB 4.7kΩ min;Ip 6.0uA max;Iv 4.0mA min;Pd 300mW,Intrinsic standoff ratio .68 to .82
59	D5E37	9	N	Si	R33a	CA	Pt .30W;RBB 12kohms max;Iv 4.0mA min;n 85 max;Ip 25uA max.
60	D5E43	9	P	Si	R33c	CA	Pt 300mW;Iv 6 0mA min;n .82 max;Ip 2.0uA,RBBO 9 1kΩ max.
61	D5E44	9	P	Si	R33c	CA	Pt 300mW;Iv 4.0mA min;n .82 max;Ip 5.0uA;RBBO 9.1kΩ max.
62	D5E45	9	P	Si	R33c	CA	Pt 300mW;Iv 8.0mA min;n .82 max;Ip 2.0uA;RBBO 9 1kΩ max.
63	D5K1	9	P-PL	Si	R33a	CC	Pt .30W,RBB 8.2kohms max;Iv 2.0mA typ;n .62 max.
64	D5K2	9	P-PL	Si	R33a	CC	Pt 20W;RBB 15kohms max;Iv 2 0mA typ;n .62 max.
65	GET4870	9	P	Si	TO72	CC§	Pt 300mW,n .75 max;Rbb 9.1kΩ max;Ip 5.0uA max;Iv 2.0mA min
66	GET4871	9	P	Si	TO72	CC§	Pt 300mW;n .85 max,RBB 9 1kΩ max;Ip 5.0uA max;Iv 4.0mA min.
67	HEP310-RT	9	P	Si	TO92	CB	Ie 50mA;RBBO 9.1kΩ;Pd 300mW;IEO at VBE of 30V is 1.0uA,Iv 4.0mA at VBB.
68	HEPS9001-RT	9		Si	TO92	CE	IT 200mA;IG ±20mA;VGKF 40V;VGKR 5.0V,VAK 40V;Pd 375mW Adjustable.
69#	MEU21	9	PΔ	Si	R110c		Pt 300mW;Ip 2.0uA max;Vf 1.5V max,Vo 6 0V min;tr 80ns max.
70#	MEU22	9	PΔ	Si	R110c		Pt 300mW;Ip 150nA;Vf 1.5V max;Vo 6.0V min;tr 80ns max.
71	MPU6027	9	P	Si	TO92	CF	Pd 375mW;Ip 2.0uA max;VT 1.6V max;iV 50uA max;VF 1.5V max;Vo 6.0V min;tr 80ns max.
72	MPU6028	9	P	Si	TO92	CF	Pd 375mW;Ip 150nA max;VT 600mV max;iV 50uA max,VF 1.5V max,Vo 6.0V min;tr 80ns max.
73	MU10	9	P-AN†	Si	R210	CB	Pd 300mW;Ip 5.0uA;n .85;rBB 10kΩ;IB2(mod)50mA;IV 10mA(A11 Max);VEB1(sat) 2V typ.
74	MU20	9	PAN	Si	R33c	CC	Pt .30W;n 85 max;RBB 9.1kohms;Iv 10mA max;Ip 2.0uA max;VEB1(sat)2V.
75	MU2646	9	PN-AN	Si	TO92	CB	VB2B1 35V max;PD 300mW;N .56 min,.75 max;rBB 9.1kΩ max;IP 1.0uA,IV 6.0mA typ.
76	MU2646M	9	PN-AN	Si	TO18	CH	VB2B1 35V max;PD 300mW max;N .56 min,.75 max;rBB 9.1kΩ max;IP 1.0uA,IV 4.0mA typ.
77	MU4891	9	PAN†	Si	R196b	CB	Pt .30W;n .82 max;RBB 9.1kohms;Iv 2.0mA;Ip 5.0uA max;VEB1(sat)4V. max.
78	MU4892	9	PAN†	Si	R196b	CB	Pt .30W;n .69 max;RBB 9.1kohms;Iv 2.0mA;Ip 2.0uA max;VEB1(sat)4V. max.
79	MU4893	9	PAN†	Si	R196b	CB	Pt .30W;n .82 max;RBB 12kohms;Iv 2.0mA;Ip 2.0uA max;VEB1(sat)4V. max.
80	MU4894	9	PAN†	Si	R196b	CB	Pt .30W;n .86 max;RBB 12kohms;Iv 2.0mA;Ip 1.0uA max;VEB1(sat)4V. max.
81#	PUT1	9	PΔ	Si	TO106		Pd 300mW;VT 600mV;Vak(min)±20V;Ip(max)1.0uA;IGAO 10nA;VF 1.5V;BVGAO 40V.
82#	PUT2	9	PΔ	Si	TO106		Pd 300mW;VT 600mV;Vak(min)±40V;Ip(max)1.0uA;IGAO 10nA;VF 1.5V;BVGAO 40V.
83#	TIS43	9	P	Si	TO92	CD	Pt 360mW;n .820 max;Ip 5.0uA max;RBB 9 1kΩ max;IEBO 10nA max.
84	2N941*	10	P-A	Si	TO18	A	Voff-1.0mV max; Ioff-1.0n Amps.
85	2N942*	10	P-A	Si	TO18	A	Voff-3.0mV max; Ioff-3.0n Amps.
86	2N943*	10	P-A	Si	TO18	A	Voff-2.0mV max; Ioff-1 0n Amps; fab-1.0Mc min.
87	2N944*	10	P-A	Si	TO18	A	Voff-3.0mV max; Ioff-1.5n Amps; fab-1.0Mc min.
88	2N945*	10	P-A	Si	TO18	A	Voff-4.0mV max; Ioff-2.0n Amps; fab-1.0Mc min.
89	2N946*	10	P-A	Si	TO18	A	Voff-4.0mV max; Ioff-2.0n Amps; fab-1.0Mc min.
90	2N1917*	10	P-A	Si	TO5	A	Voff-1.0mV max, Ioff-1.0n Amps.
91	2N1918*	10	P-A	Si	TO5	A	Voff-3.0mV max; Ioff-3.0n Amps
92	2N1919*	10	P-A	Si	TO5	A	Voff-2.0mV max; Ioff-1.0n Amps; fab-1.0Mc min.
93	2N1920*	10	P-A	Si	TO5	A	Voff-3.0mV max; Ioff-1.5n Amps; fab-1.0Mc min.
94	2N1921*	10	P-A	Si	TO5	A	Voff-4.0mV max; Ioff-2.0n Amps; fab-1.0Mc min.
95	2N1922*	10	P-A	Si	TO5	A	Voff-4 0mV max; Ioff-2.0n Amps; fab-1.0Mc min.
96	2N2162*	10	P-PA	Si	TO5	A	Voff-2.0mV max; rS-20 ohms; ft-14Mc. min.
97	2N2163*	10	P-PA	Si	TO5	A	Voff-2.0mV max; rS-20 ohms; ft-14Mc min.
98	2N2164*	10	P-PA	Si	TO5	A	Voff-1.5mV max; rS-20 ohms, ft-24Mc. min.
99	2N2165*	10	P-PA	Si	TO5	A	Voff-3.0mV max; rS-20 ohms; ft-10Mc. min.
100	2N2166*	10	P-PA	Si	TO5	A	Voff-3.0mV max; rS-30 ohms; ft-10Mc min
101	2N2167*	10	P-PA	Si	TO5	A	Voff-2.5mV max, rS-20 ohms; ft-16Mc. min.
102	2N2185*	10	P	Si	R177	A	Voff 2.5mV max,ts 250ns max.
103	2N2186*	10	P	Si	R177	A	Voff 2 5mV max;ΔVoff 50uV max;ts 250ns max.
104	2N2187*	10	P	Si	R177	A	Voff 2.5mV max;ΔVoff 50uV max;ts 250ns max
105	2N2274*	10	PΔ	Si	R177	A	Voff 3.5mV max;r(sat)17Ω max;ts 250ns max.
106	2N2275*	10	PΔ*	Si	R177	A	Voff 3.5mV max;r(sat)17Ω max,ts 250ns max;VBE(1-2)± 100uV max
107	2N2276*	10	PΔ	Si	R177	A	Voff 2 25mV max;r(sat)17Ω max;ts 250ns max.
108	2N2277*	10	PΔ*	Si	R177	A	Voff 2.25mV max;r(sat)17Ω max,ts 250ns max;VBE(1-2)± 100uV max.
109	2N2278*	10	PΔ	Si	R177	A	Voff 2 25mV max,r(sat)18Ω max,ts 250ns max.
110	2N2279*	10	PΔ*	Si	R177	A	Voff 2 25mV max;r(sat)18Ω max;ts 250ns max;VBE(1-2)± 50uV max.

14. MISCELLANEOUS TRANSISTORS

LINE No	2 TYPE No.	1 USE	CATEGORY STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser	LEAD CONFIG	DESCRIPTION
1	3N133*	10	P△	Si	TO72	GCØ	VE1E2/△T 10uV max,rs(on) 15Ω max,V(BR)E1E2 50V,VE1E2 30uV.
2	3N134*	10	P△	Si	TO72	GCØ	VE1E2/△T 25uV max,rs(on) 15Ω max,V(BR)E1E2 15V,VE1E2 100uV.
3	3N135*	10	P△	Si	TO72	GCØ	VE1E2/△T 25uV max,rs(on) 15Ω max;V(BR)E1E2 30V;VE1E2 100uV.
4	3N136*	10	P△	Si	TO72	GCØ	VE1E2/△T 25uV max;rs(on) 15Ω max;V(BR)E1E2 50V;VE1E2 100uV
5	30	10	P-A	Si	R199		Matched pair; ICBO-2.0uA, BVCEO-20V, BVEBO-12V.
6	40	10	P-A	Si	R199b		Matched pair, ICBO-25nA, BVCEO-35V; BVCBO-40V.
7	50	10	P-A	Si	R199d		Matched pair; ICBO-3 0uA, BVCEO-25V; BVCBO-25V.
8	60	10	P-A	Si	R199a		Matched pair, ICBO-2.0uA, BVCEO-36V; BVEBO-12V
9	70	10	P-A	Si	R199c		Matched pair; ICBO-3 0nA, BVCEO-6 0V; BVEBO-10V.
10#	BFV34*	10	P-PE	Si	S5a	P	Pt- 15W;hFE(inv)-6 0 min,VEC(ofs)- 30mV;rec(on)-20 ohms
11#	BFV35*	10	P-PE	Si	S5a	P	Pt- 15W,hFE(inv)-4.0 min,VEC(ofs)-.50mV,rec(on)-35 ohms.
12#	BFV36*	10	P-PE	Si	S5a	P	Pt- 15W;hFE(inv)-3.0 min;VEC(ofs)-.80mV,rec(on)-45 ohms
13#	BFV37*	10	N-PE	Si	S5a	P	Pt- 15W;hFE(inv)-2 0 min;VEC(ofs)- 50mV;rec(on)-20 ohms
14#	BFV38*	10	N-PE	Si	S5a	P	Pt- 15W,hFE(inv)-3.0 min;VEC(ofs)-.40mV;rec(on)-15 ohms.
15#	BFV89*	10	N-PE	Si	W5a	B	Pt-.30W;hFE(inv)-2 0 min,VEC(ofs)- 40mV;rec(on)-15 ohms
16#	BFV89A*	10	N-PE	Si	W5a	B	Pt- 30W;hFE(inv)-3 0 min;VEC(ofs)-.70mV;rec(on)-15 ohms.
17#	BSX82*	10	N-MOS	Si	TO33	DW	Pt 250mW,Voff 30uV max;Cob 4.0pf max;rDS(off) 20MΩ.
18#	BSY89*	10	N-PE	Si	TO18	AØ	Voff-1.0mV max;rs-20 ohms;cob-12pf;ft-40Mc min.
19	HA7804	10	P-A	Si	TO5		Vo-3 0mV max; Rsat-25 ohms max; Tr-15 usec max.
20	HA7806*	10	P-A	Si	TO5		BVCBO-15V;ICBO-50nA,fab-1.0MHz,Cob-90pf,Voff-2.0mV;trr-15usec.
21	HA7808*	10	P-A	Si	TO5		BVCBO-15V,ICBO-50nA,fab-1.0MHz;Cob-70pf;Voff-1.5mV,trr-15usec.
22	HA7810	10	P-A	Si	TO5		Vo-1.5mV max; Rsat-30 ohms max; Tr-15 usec max.
23	HA7815	10	P-A	Si	TO5		Vo-1 5mV max, Rsat-25 ohms max; Tr-15 usec max.
24	LDS207*	10	N-PE△	Si	S5	P	Pt-.36W;hFE(INV)-20min,Voff- 10mV max;rec(on)-4 ohms max.
25♦#	uPA36A*	10	N-F	Si	R144	RDØ	Common Coll Dual;hFE1/hFE2 80min,1.25 max;V(off) 50uVmax,I(off) 1 0nAmax
26#	ZDT10	10	N-PL	Si	R102a		△VEC-250uV max;VEC-2 0mV;IE1E2-10nA max.
27#	ZDT30*	10	N-PE	Si	TO72	GC	VE1E2 50uV at IB 500uA;IE1E20 10nA at VE1E2 5.0 to 5.0V;rS 15Ω.
28#	ZDT31*	10	N-PE	Si	TO72	GC	VE1E2 50uV at IB 500uA;IE1E20 10nA at VE1E2 5.0 to 5.0V;rS 15Ω.
29	2N626	11	N	GS	X171	A	Pd 10W max;VCB,VCE,VEB 30V max;hFE At VCE 5V,IC 1A 18k To 30k;fae 7kHz min
30	2N998	11	N-PL	Si	TO72		Pc-.50W max,BVCBO-100V;hFE-1600 min/IC-10mA;BVCEO-60V;ICBO-.010uA
31	2N999	11	N	Si	TO72		Pc-.50W; hFE-70000 max. pulsed at IC-100mA and VCE-10V
32	2N2641*	11	N Ø	Si	R131c		Pt-.6W;VCE(sat)-100ohms max,VBE-.60V min;hFE-50 min.
33	2N2644*	11	N Ø	Si	R131c		Pt-.6W;VCE(sat)-100ohms max;VBE-.60V min;hFE-100 min.
34	2N2785	11	N	Si	TO72		Pc-.50W; BVCBO-60V; hFE:2,000-20,000
35	2N2804*	11	P	Si	R131c	PA	Pt-.50W,hFE-20-120 at IC-.10mA,VCE-5V;VCE(SAT)-.5V.
36	2N2807*	11	P	Si	R131c	PA	Pt-.50W;hFE-40-120 at IC-.10mA,VCE-5V;VCE(sat)-.5V.
37	2N2913*	11	N	Si	R131c		Pt-.50W;ICBO-10uA at 150 deg.C,VBE(ON)-.70V max;VCE(sat)-.35V max.
38	2N2914*	11	N	Si	R131c		Pt-.50W;ICBO-10uA at 150 deg.,VBE(ON)-.70V max;VCE(sat)-.35V max.
39	2N3425*	11	N	Si	R131c		Pt-.4W,VC1C2-200V,ton-50nsec max;toff-90nsec max.
40	2N3800*	11	PØ	Si	TO71	PM	Pt-360mW;hFE-100 min. at IC-10uA;VCE(sat)-.20V max.
41	2N3801*	11	PØ	Si	TO71	PM	Pt-360mW;hFE-225 min. at IC-10uA;VCE(sat)-.20V max.
42	2N3806*	11	PØ	Si	R131c	PA	Pt-600mW,hFE-100 min. at IC-10uA;VCE(sat)-.20V max.
43	2N3807*	11	PØ	Si	R131c	PA	Pt-600mW;hFE-225 min. at IC-10uA;VCE(sat)-.20V max.
44	2N3812*	11	PØ	Si	X22		Pt-.35W,hFE-100 min at IC-10uA, VCE-5.0V.
45	2N3813*	11	PØ	Si	X22		Pt-.35W;hFE-225 min. at IC-10uA, VCE-5.0V.
46	2N4017*	11	PØ	Si	R131a	PR	Pt-600mW;hFE-60 min at VCE of 5.0V and IC of 1.0uA;IEBO-10nA max.
47	2N4018*	11	PØ	Si	R131a	PR	Pt-600mW;hFE-60 min at VCE of 5.0V and IC of 1.0uA;IEBO-10nA max.
48	2N4019*	11	PØ	Si	R131a	PR	Pt-600mW;hFE-180 min at VCE of 5.0V and IC of 1 0uA;IEBO-10nA max.
49	2N4939	11	P	Si	R131c	PA	Pt-.60W;BVC1C2-200V max;hFE-50 min;BVCBO-50 max,IC-50mA max.
50	2N4942	11	PØ	Si	TO89	PB	Pt- 35W;BVCBO-50 max;hFE-50 min;ICBO- 02uA max.
51	2N4955*	11	N	Si	R137		Pt-.45W,NF-4.5db at 10kohms.
52	2N5254*	11	P-Ø	Si	R137	PA	Pt-.43W;hFE-50 min;VBCO-40V,VEBO-5.0V,ft-40M min
53	2N5254/78*	11	P	Si	R131c		Pt 500mW,hFE 50 min;VCBO 40V;VEBO 5V;fT 60M min
54	2N5390	11	N	Si	TO33	GN	Pt-1W,VCB1-120V max,VCE-80V max;IC-2A max;hFE-2000 min;ft-40Mc min
55	2N5793†	11	N	Si	R131f		Unitized Dual;Pt 600mW(total),fT 1.0G max;Ic 600mA,I(1C-2C)±1.0nA max.
56	JAN2N5793†	11	N	Si	R131f		Unitized Dual;Pt 600mW(total);fT 1.0G max;Ic 600mA;I(1C-2C)±1.0nA max.
57	2N5794†	11	N	Si	R131f		Unitized Dual;Pt 600mW(total);fT 1.0G max;Ic 600mA;I(1C-2C)±1.0nA max.
58	JAN2N5794†	11	N	Si	R131f		Unitized Dual,Pt 600mW(total);fT 1.0G max;Ic 600mA;I(1C-2C)±1 0nA max.
59	2N5795†	11	P	Si	R131f		Unitized Dual;Pt 600mW(total);fT 1.0G max;Ic 600mA;I(1C-2C)±1.0nA max.
60	JAN2N5795†	11	P	Si	R131f		Unitized Dual;Pt 600mW(total);fT 1.0G max;Ic 600mA;I(1C-2C)±1.0nA max.
61	2N5796†	11	P	Si	R131f		Unitized Dual;Pt 600mW(total);fT 1.0G max;Ic 600mA;I(1C-2C)±1 0nA max.
62	JAN2N5796†	11	P	Si	R131f		Unitized Dual;Pt 600mW(total);fT 1.0G max;Ic 600mA;I(1C-2C)±1.0nA max.
63	2N6502*	11	N	Si	R131f	PA	Pd 650mW(both sides);ton 35ns max;toff 60ns max,VCE(sat)0.5V.
64	2N6503*	11	N	Si	X22	PB	Pd 400mW(both sides);ton 35ns max;toff 60ns max;VCE(sat)0 5V.
65#	2SC603*	11	N-PE	Si	R144a	QYØ	Bidirectional Switching;Pt 200mW(total);IEBO 1 0uA max;IE 50mA max
66#	2SC1265*	11	N-E	Si	T139	PR	Pt 300mW(per unit);hFE1/2 1.0 max;△VBE 8.0mV max;High Speed Switching
67	3N189*	11	PMOS△	Si	TO99	QC	Pt 525mW,tr 30nS;td 15nS;toff 50nS
68	3N191*	11	PMOS△	Si	TO99	QC	Pt 525mW;tr 30nS;td 15nS,toff 50nS.
69#	BFV70	11		Si	TO84		Pt-.4W,BVCBO-60V min;hFE-100 min;ft-200MHz min,Toff-40ns max
70#	BFV71	11		Si	TO84		Pt-.4W;BVCBO-60V min,hFE-100 min;ft-350MHz min,Toff-18ns max
71#	BFV73	11		Si	TO84		Pt-.4W;BVCBO-60V min,hFE-40 min;ft-350MHz min;Toff-18ns max
72#	BFV73N	11		Si			Pt 400mW;BVCBO 60V min;hFE 40 min,ft 350MHz min;Toff 18ns max.
73#	BFV75	11	Ø	Si	TO89		Pt- 4W,BVCEO-45V min;IC-30mA max;ft-30MHz min.
74#	BFV76	11		Si	TO89		Pt- 4W;BVCEO-15V min;VEC(off)-500uV;Rec(on)-20 ohms
75#	BFV93A	11		Si	TO84		BVCBO-60V min;hFE-100 min;VCE(sat)-.40V max.
76#	BFV93AN	11		Si			BVCBO 60V min;hFE 100 min,VCE(sat) 400mV max.
77#	BFX67	11	N	Si	TO72		Pc-.50W;hFE-7000 max. pulsed at IC-100mA and VCE-10V.
78#	C2306	11	N	Si	TO71	PJ	IDSS1/2 0 9-1 0 Ratio,VGS1/2 20mV,VGS1/2T 40uV/°C
79	D2T918*	11	N	Si	TO77		Pt 300mW(both sides);VCEO 15V;hFE 20 min at 1.0V;IC 3.0mA.
80	M106*	11	PMOS△		TO99	QX§	FET,BVDSS 30V;BVGSS 30V;IGSS 100pA;rDS 120Ω;Pt 500mW;Cgss 4 0pF
81	M107*	11	PMOS		TO99	PW§	FET;BVDSS 30V;BVGSS 30V;IGSS 100pA,rDS 120Ω,Pt 500mW
82	M108*	11	P-MOS	Si	TO99	PW§	FET,BVDSS 30V,BVGSS 100V;IGSS 1pA;rDS 120Ω;Pt 500mW
83	MD708*	11	N-AN*	Si	R131f	PA	Pd 600mW(both sides);ton 35ns max;toff 75ns max;ts 25ns max.
84	MD708F	11	N-AN*	Si	X22		Pd 400mW(both sides);ton 35ns max;toff 75ns max;ts 25ns max.
85	MD918*	11	N-ANØ	Si	TO99	PA	Pd 600mW(both sides);VCEO 15Vdc,hFE 50 min at 3.0mAdc and 5.0V
86	MD918F*	11	N-ANØ	Si	TO89	PB	Pd 600mW(both sides);VCEO 15Vdc;hFE 50 min at 3 0mAdc and 5 0V.
87	MD2060F*	11	NAN	Si	TO89	PB	PD(both sides)400mW max;hFE1/2 .90 min-1 0 max;VBE(1-2)5mVdc max,△VBE(1-2).8mVdc max
88	MD2218*	11	NAN△	Si	R131c	PA	Pd 625mW,td 20us,tr 40us,ts 280us,tf 70us max values
89	MD2218A*	11	NAN△	Si	R131c	PA	Pd 625mW;td 15us,tr 30us,ts 250us,tf 60us max values.
90	MD2218AF*	11	NAN△	Si	X22	PB	Pd 400mW;td 15us,tr 30us,ts 250us,tf 60us max values.
91	MD2218F*	11	NAN△	Si	X22	PB	Pd 400mW;td 20us,tr 40us,ts 280us,tf 70us max values.
92	MD2219*	11	NAN△	Si	R131c	PA	Pd 625mW;td 20us,tr 40us,ts 280us,tf 70us max values
93	MD2219A*	11	NAN△	Si	R131c	PA	Pd 625mW;td 15us,tr 30us,ts 250us,tf 60us max values
94	MD2219AF*	11	NAN△	Si	X22	PB	Pd 400mW;td 15us,tr 30us,ts 250us,tf 60us max values
95	MD2219F*	11	NAN△	Si	X22	PB	Pd 400mW;td 20us,tr 40us,ts 280us,tf 70us max values
96	MD2369*	11	N-AN	Si	TO99	PA	Pd 600mW(both sides);ton 15ns max;toff 20ns max;ts 13ns max.
97	MD2369F*	11	N-AN	Si	TO89	PB	Pd 400mW(both sides);ton 15ns max;toff 20ns max;ts 13ns max.
98	MD2904*	11	PAN	Si	R131b	PA	Pd 625mW(ALL);tr 35ns;td 12ns;ts 100ns;tf 40ns.
99	MD2904A*	11	PAN	Si	R131b	PA	Pd 625mW(ALL),tr 35ns;td 12ns;ts 100ns;tf 40ns.
100	MD2904AF*	11	PAN	Si	X22	PB	Pd 400mW(ALL);tr 35ns;td 12ns;ts 100ns;tf 40ns
101	MD2904F*	11	PAN	Si	X22	PB	Pd 400mW(ALL);tr 35ns;td 12ns;ts 100ns;tf 40ns
102	MD2905*	11	PAN	Si	R131b	PA	Pd 625mW(ALL);tr 35ns;td 12ns;ts 100ns;tf 40ns.
103	MD2905A*	11	PAN	Si	R131b	PA	Pd 625mW(ALL);tr 35ns;td 12ns;ts 100ns;tf 40ns.
104	MD2905AF*	11	PAN	Si	X22	PB	Pd 400mW(ALL),tr 35ns;td 12ns;ts 100ns;tf 40ns
105	MD2905F*	11	PAN	Si	X22	PB	Pd 400mW(ALL);tr 35ns;td 12ns;ts 100ns;tf 40ns.
106	MD3250*	11	P-AN	Si	R131f	PA	Pd 625mW(both sides),hFE 50 min,82 typ,150 max at VCE 5Vdc,IC 100uAdc
107	MD3250F*	11	P-AN	Si	X22		Pd 400mW(both sides);hFE 50 min,82 typ,150 max at VCE 5Vdc,IC 100uAdc.
108	MD3251*	11	P-AN	Si	R131f	PA	Pd 625mW(both sides),hFE 80 min,170 typ,300 max at VCE 5Vdc,Ic 100uAdc.
109	MD3251F*	11	P-AN	Si	X22		Pd 400mW(both sides);hFE 80 min,170 typ,300 max at VCE 5Vdc,IC 100uAdc.
110	MD3467†	11	P-AN	Si	R131f	PA	Pd 650mW(both sides);IEBO 100nAdc max;fT 150MHz min.

14. MISCELLANEOUS TRANSISTORS

IN ORDER OF (1) CATEGORY & (2) TYPE No.

LINE No.	2 TYPE No.	1 CATEGORY USE	STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CODE	DESCRIPTION
1	2N2451*	13	NDPE	Si	TO46	A	Rad. Res. Switch; Irradiation-10kT nvt.
2	2N5145*	13	NΔ	Si	TO39	AØ	Post Rad of 300T NVT;tr-35ns,td-10ns,ts-35ns,tf-30ns,MAX;ft-250MHz min.
3	2N5200*	13	N	Si	TO46	AØ	Pd-1.2W;Post Rad. of 300T nvt;hFE-10 min;ICES-.05uA max.
4	2N5201*	13	N	Si	TO46	AØ	Pd-1.2W;Post Rad. of 300T nvt;hFE-12 min;ICES-.05uA max.
5	2N5236*	13	N	Si	TO39	AØ	Max. Rad. Level 300T NVT;hFE 10 min;VCE(sat) 1.4,all pulsed.
6	2N5292*	13	P	Si	TO18	AØ	Max.Rad.Level-300T-nvt;hFE-10min;tr-12ns,tf-15ns.
7	2N5304*	13	NΔ	Si	TO61	AØ	Max. Rad. Level 100T NVT;hFE 5.0 min,VCE(sat) 1.5V max;tr 100nS,ts 700nS,tf 100nS max
8	JAN2N5304*	13	NΔ	Si	TO61	AØ	Pt 25W Case;Fast Neutron Rad.1x10(14)N/cm sq;Cob 300pF max.
9	2N5332*	13	P Δ	Si	TO46	AØ	Max.Rad.Level-1000T NVT;hFE-10 min.pulsed;tr-8ns;ts-70ns;tf-16ns.
10	2N5399*	13	NΔ	Si	TO46	AØ	Max.Rad.-1000T nvt;Post Rad. hFE-12 min;ICBO-10uA;tr-8ns;tf-16ns.
11	2N5417*	13	NΔ	Si	TO39	AØ	Max.Rad.-1000T nvt;Post Rad. hFE-8 pulsed;tr-18ns;ICBO-10uA;tf-60ns.
12	2N5527*	13	N	Si	R179u	AØ	Max.Rad.Level-500T NVT;hFE-15 min pulsed;ICBO-1mA;VCE(sat)-6.7 max.
13	2N5528*	13	N	Si	TO59	AØ	Max.Rad.Level-500T NVT;hFE-15 min pulsed;ICBO-1mA;VCE(sat)-6.7 max.
14	2N5529*	13	N	Si	TO61	AØ	Max.Rad.Level-500T NVT;hFE-15 min pulsed;ICBO-1mA;VCE(sat)-6.7 max.
15	2N5530*	13	N	Si	TO61	A	Max.Rad.Level-500T NVT;hFE-15 min pulsed;ICBO-1mA;VCE(sat)-6.7 max.
16	2N5531*	13	N	Si	R179u	AØ	Max.Rad.Level-500T NVT;hFE-7 min.pulsed;ICBO-1mA;VCE(sat)-1 max.
17	2N5532*	13	N	Si	TO59	AØ	Max.Rad.Level-500T NVT;hFE-7 min.pulsed;ICBO-1mA;VCE(sat)-1 max.
18	2N5533*	13	N	Si	TO61	AØ	Max.Rad.Level-500T NVT;hFE-7 min.pulsed;ICBO-1mA;VCE(sat)-1 max.
19	2N5534*	13	N	Si	TO61	A	Max.Rad.Level-500T NVT;hFE-7 min.pulsed;ICBO-1mA;VCE(sat)-1 max.
20	2N5535*	13	N Δ	Si	TO61	AØ	Max.Rad.Level-500T NVT;hFE-15 min.pulsed;ICBO-1mA;td-25ns;tf-300ns.
21	2N5536*	13	N Δ	Si	TO61	A	Max.Rad.Level-500T NVT;hFE-15 min.pulsed;ICBO-1mA;td-25ns;tf-300ns.
22	2N5537*	13	N Δ	Si	TO61	AØ	Max.Rad.Level-500T NVT;hFE-10 min.pulsed;ICBO-2mA;td-25ns;tf-300ns.
23	2N5538*	13	N Δ	Si	TO61	A	Max.Rad.Level-500T NVT;hFE-10 min.pulsed;ICBO-2mA;td-25ns;tf-300ns.
24	2N5763*	13	PΔ	Si	TO18	AØ	Pt 1.8W;Post Rad.500T NVT;ICBO 25n;tr 40ns max;td 10ns max;ts 200ns max;tf 50ns max.
25	2N5938*	13	N	Si	T126	A	Max. Rad Level 100T NVT,hFE 10 min.
26	2N5939*	13	N	Si	TO111	A	Max. Rad. Level 100T NVT;hFE 10 min.
27	2N5940*	13	N	Si	TO111	A	Max. Rad. Level 100T NVT;hFE 10 min.
28♦	BR100A*	13	N	Si	TO5	AØ	Rad 100T n/Sq Cm;Post Rad hFE 15 At VCE 5.0V,Ic 3.0A
29	BR100B*	13	N	Si	T27	AØ	Max. Rad. Level-500T nvt;Post Rad hFE-25;ICBO-1.0mA
30♦	BR100C*	13	N	Si	TO59	A	Rad 100T n/Sq Cm;Post Rad hFE 15 At VCE 5.0V,Ic 3.0A
31	BR100D*	13	N	Si	TO60	A	Max. Rad. Level-500T nvt;Post Rad hFE-25;ICBO-1.0mA
32♦	BR100E*	13	N	Si	TO61	AØ	Rad 100T n/Sq Cm;Post Rad hFE 15 At VCE 5.0V,Ic 3.0A
33♦	BR100F*	13	N	Si	TO61	A	Rad 100T n/Sq Cm;Post Rad hFE 15 At VCE 5.0V,Ic 3.0A
34♦	BR101A*	13	N	Si	TO5	AØ	Rad 100T n/Sq Cm;Post Rad hFE 7.0 At VCE 5.0V,Ic 3.0A
35	BR101B*	13	N	Si	T27	AØ	Max. Rad. Level-500T nvt;Post Rad hFE-15;ICBO-1.0mA
36♦	BR101C*	13	N	Si	TO59	A	Rad 100T n/Sq Cm;Post Rad hFE 7.0 At VCE 5.0V,Ic 3.0A
37	BR101D*	13	N	Si	TO60	A	Max. Rad. Level-500T nvt;Post Rad hFE-15;ICBO-1.0mA
38♦	BR101E*	13	N	Si	TO61	AØ	Rad 100T n/Sq Cm;Post Rad hFE 7.0 At VCE 5.0V,Ic 3.0A
39♦	BR101F*	13	N	Si	TO61	A	Rad 100T n/Sq Cm;Post Rad hFE 7.0 At VCE 5.0V,Ic 3.0A
40♦	BR200A*	13	N	Si	TO61	AØ	Rad 100T n/Sq Cm;Post Rad hFE 15 At VCE 5.0V,Ic 5.0A
41♦	BR200B*	13	N	Si	TO61	A	Rad 100T n/Sq Cm;Post Rad hFE 15 At VCE 5.0V,Ic 5.0A
42♦	BR201A*	13	N	Si	TO61	AØ	Rad 100T n/Sq Cm;Post Rad hFE 10 At VCE 5.0V,Ic 5.0A
43♦	BR201B*	13	N	Si	TO61	A	Rad 100T n/Sq Cm;Post Rad hFE 10 At VCE 5.0V,Ic 5.0A
44▼	BR300A*	13	N	Si	TO61	AØ	Rad 100T n/Sq Cm;Post Rad hFE 15 At VCE(s) 2.0V,Ic 10A
45▼	BR300B*	13	N	Si	TO61	A	Rad 100T n/Sq Cm;Post Rad hFE 15 At VCE(s) 2.0V,Ic 10A
46▼	BR301A*	13	N	Si	TO61	AØ	Rad 100T n/Sq Cm;Post Rad hFE 10 At VCE(s) 3.0V,Ic 10A
47▼	BR301B*	13	N	Si	TO61	A	Rad 100T n/Sq Cm;Post Rad hFE 10 At VCE(s) 3.0V,Ic 10A
48▼	BR400A*	13	N	Si	TO61	AØ	Rad 100T n/Sq Cm;Post Rad hFE 12 At VCE(s) 2.0V,Ic 5.0A
49▼	BR400B*	13	N	Si	TO61	A	Rad 100T n/Sq Cm;Post Rad hFE 12 At VCE(s) 2.0V,Ic 5.0A
50▼	BR401A*	13	N	Si	TO61	AØ	Rad 100T n/Sq Cm;Post Rad hFE 7.0 At VCE(s) 2.5V,Ic 5.0A
51▼	BR401B*	13	N	Si	TO61	A	Rad 100T n/Sq Cm;Post Rad hFE 7.0 At VCE(s) 2.5V,Ic 5.0A
52	PPR1006*	13	N	Si	T27	AØ	Post Rad hFE-15 at Ic 3.0A;VCE 5.0V.
53	PPR1007*	13	N	Si	TO60	AØ	Post Rad hFE-15 at Ic 3.0A;VCE 5.0V.
54	PPR1008*	13	N	Si	T27	AØ	Post Rad hFE-7.0 at Ic 3.0A;VCE 5.0V.
55	PPR1009*	13	N	Si	TO60	AØ	Post Rad hFE-7.0 at Ic 3.0A;VCE 5.0V.
56	PPR1010*	13	N	Si	TO61	AØ	Post Rad hFE-15 at Ic 10A;VCE 5.0V.
57	PPR1011*	13	N	Si	TO61	A	Post Rad hFE-15 at Ic 10A;VCE 5.0V.
58	PPR1012*	13	N	Si	TO61	AØ	Post Rad hFE-10 at Ic 10A;VCE 5.0V.
59	PPR1013*	13	N	Si	TO61	A	Post Rad hFE-10 at Ic 10A;VCE 5.0V.
60	SDR2710	13	N	Si			Rad 100T n/Sq Cm;Post Rad hFE 15 At VCE(S)2.0V,IC 3.0A;IC max 5.0A;VCBO 60V
61	SDR2711	13	N	Si	TO60	A	Rad 100T n/Sq Cm;Post Rad hFE 15 At VCE(S)2.0V,IC 3.0A;IC max 10A;VCBO 60V
62	PT12	14	N-PL	Si	TO46	AØ	Press. 1.0psid nom;Tc ±150mV/°C;hFE 10 nom;BVCEO 120V;tr 10us.
63	PT22	14	N-PL	Si	TO46	AØ	Press. 2.0psid nom;Tc ±150mV/°C;hFE 10 nom;BVCEO 120V;tr 10us.
64	PT52	14	N-PL	Si	TO46	AØ	Press. 5.0psid nom;Tc ±150mV/°C;hFE 10 nom;BVCEO 120V;tr 10us.
65	PT102	14	N-PL	Si	TO46	AØ	Press. 10psid nom;Tc ±150mV/°C;hFE 10 nom;BVCEO 120V;tr 10us.
66	PT152	14	N-PL	Si	TO46	AØ	Press. 15psid nom;Tc ±150mV/°C;hFE 10 nom;BVCEO 120V;tr 10us.
67	PT202	14	N-PL	Si	TO46	AØ	Press. 20psid nom;Tc ±150mV/°C;hFE 10 nom;BVCEO 120V;tr 10us.
68	PT-H2	14	N-PL	Si	TO46	AØ	Press. .500psid nom;Tc ±150mV/°C;hFE 10 nom;BVCEO 120V;tr 10us.
69	PT-L2	14	N-PL	Si	TO46	AØ	Press. .100psid nom;Tc ±150mV/°C;hFE 10 nom;BVCEO 120V;tr 10us.
70	PT-M2	14	N-PL	Si	TO46	AØ	Press. .250psid nom;Tc ±150mV/°C;hFE 10 nom;BVCEO 120V;tr 10us.
71	M22P2	15	N-PL	Si	C2a	T	BVCBO-25V;BVCEO-18V;BVEBO-5.0V;Ic-100mA;hFE-70min at Ic 2.0mA and VCE 4.5V.
72	M22P3	15	N-PL	Si	C2a	T	BVCBO-25V;BVCEO-18V;BVEBO-5.0V;Ic-100mA;hFE-110min at Ic 2.0mA and VCE 4.5V.
73	M22P4	15	N-PL	Si	C2a	T	BVCBO-25V;BVCEO-18V;BVEBO-5.0V;Ic-100mA;hFE-150min at Ic 2.0mA and VCE 4.5V.
74	M23P-X504	15	N-PE	Si	C9	T	2N2219-22 chips.
75	M24P-X502	15	N-PE	Si	C2a	T	2N2714 chip.
76	M26P-X504	15	N-PE	Si	C3a	T	2N2484 chip.
77	M26P-X505	15	N-PE	Si	C3a	T	2N930 chip.
78	M26P-X516	15	N-PE	Si	C3a	T	2N3859 chip.
79	M26P-X517	15	N-PE	Si	C3a	T	2N5232 chip.
80	M26P-X531	15	N-PE	Si	C3a	T	2N929 chip.
81	M26P-X558	15	N-PE	Si	C3a	T	2N5172 chip.
82	M26P-X560	15	N-PE	Si	C3a	T	2N3860 chip.
83	M28P-X507	15	N-PE	Si	C3a	T	2N3855A chip.
84	M28P-X508	15	N-PE	Si	C3a	T	2N3856A chip.
85	M32P-X503	15	N-PE	Si	C10	T	2N3414 chip.
86	M32P-X506	15	N-PE	Si	C10	T	2N3416 chip.
87	M32P-X508	15	N-PE	Si	C10	T	2N3417 chip.
88	M32P-X509	15	N-PE	Si	C10	T	2N3415 chip.
89	M63P-X503	15	N-PE	Si	C11	T	2N918 chip.
90	M67P-X504	15	N-PE	Si	C9	T	2N2905-07 chips.
91	M73P1	15	N-PE	Si	C12	T	Darlington chip;BVCBO-18V;BVEBO-12V;hFE-3.0k at Ic-2.0mA and VCE-5.0V.
92	M73P-X502	15	N-PE	Si	C12	T	2N5306 Darlington chip.
93	M82P-X500	15	N-PE	Si	C13	T	2N708 chip.
94▼	THC40D4	15	N-PEΔ	Si	C20	TØ	BVCES 60V;BVCEO 45V;BVEBO 5.0V;IC 1.0A;hFE 50-150 at IC 100mA
95▼	THC40D5	15	N-PEΔ	Si	C20	TØ	BVCES 60V;BVCEO 45V;BVEBO 5.0V;IC 1.0A;hFE 120-360 at IC 100mA
96▼	THC40D10	15	N-PE	Si	C20	TØ	BVCES 90V;BVCEO 75V;BVEBO 5.0V;IC 1.0A;hFE 50-150 at IC 100mA
97▼	THC40D11	15	N-PE	Si	C20	TØ	BVCES 90V;BVCEO 75V;BVEBO 5.0V;IC 1.0A;hFE 120-360 at IC 100mA
98	THC95	15	P-PE⊠	Si	C7	GPØ	BVCBO 50V;BVCEO 50V;BVEBO 50V;IC 100mA max;hFE 20 min At IC 3mA And VCE 500mV
99	THC930	15	N-PE	Si	C3	TØ	BVCBO 45V;BVCEO 45V;BVEBO 5.0V;IC 100mA max;hFE 100 min At IC 10uA And VCE 5V
100	THC2192	15	N-PEΔ	Si	C6	TØ	BVCBO 60V;BVCEO 40V;BVEBO 5.0V;IC 1.0A max;hFE 100 min At IC 150mA And VCE 10V
101	THC2221	15	N-PEΔ	Si	C1	TØ	BVCBO 60V;BVCEO 30V;BVEBO 5.0V;IC 800mA max;hFE 40 min At IC 150mA And VCE 10V
102	THC2221A	15	N-PEΔ	Si	C1	TØ	BVCBO 60V;BVCEO 40V;BVEBO 6.0V;IC 800mA max;hFE 40 min At IC 150mA And VCE 10V
103	THC2222	15	N-PEΔ	Si	C1	TØ	BVCBO 60V;BVCEO 30V;BVEBO 5.0V;IC 800mA max;hFE 100 min At IC 150mA And VCE 10vV
104	THC2222A	15	N-PEΔ	Si	C1	TØ	BVCBO 60V;BVCEO 40V;BVEBO 6.0V;IC 800mA max;hFE 100 min At IC 150mA And VCE 10V
105	THC2484	15	N-PE	Si	C3	TØ	BVCBO 60V;BVCEO 60V;BVEBO 6.0V;IC 800mA max;hFE 100 min At IC 10uA And VCE 5V
106	THC2906	15	N-PEΔ	Si	C1	TØ	BVCBO 60V;BVCEO 40V;BVEBO 5.0V;IC 800mA max;hFE 40 min At IC 150mA And VCE 10V
107	THC2906A	15	N-PEΔ	Si	C1	TØ	BVCBO 60V;BVCEO 60V;BVEBO 5.0V;IC 800mA max;hFE 40 min At IC 150mA And VCE 10V
108	THC2907	15	N-PEΔ	Si	C1	TØ	BVCBO 60V;BVCEO 40V;BVEBO 5.0V;IC 800mA max;hFE 100 min At IC 150mA And VCE 10V
109	THC2907A	15	N-PEΔ	Si	C1	TØ	BVCBO 60V;BVCEO 60V;BVEBO 5.0V;IC 800mA max;hFE 100 min At IC 150mA And VCE 10V
110	THC2926	15	N-PE	Si	C2	TØ	BVCBO 18V;BVCEO 18V;BVEBO 5.0V;IC 200mA max;hFE 35 min At IC 2.0mA And VCE 10V

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

14. MISCELLANEOUS TRANSISTORS

LINE No.	2 TYPE No.	1 CATEGORY USE	STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CODE	DESCRIPTION
1#	2SC1564*	17	N-PE	Si	T129a	Ge	Pd 40W max,Po 30W at VCC 28V,freq 700MHz,Pin 10W,Cob 23pf at 20V
2♦#	2SC1592*	17	N-E	Si	T136	S	VHF/UHF Wide Band Ampl,(S21E)2 8 0dB,Ga(max) 12dB at 1.0GHz,Vce 10V,Ic 50mA
3▼#	2SC1593*	17	N-E	Si	T136	S	VHF/UHF Wide Band Ampl;(S21E)2 7.0dB at 1.0GHz,Vce 10V,Ic 50mA
4▼#	2SC1594*	17	N-E	Si	T136	S	VHF/UHF Wide Band Ampl;(S21E)2 4.0dB,Ga(max) 11dB at 1.0GHz,Vce 10V,Ic 100mA
5▼#	2SC1595*	17	N-E	Si	T136	S	Microwave Pwr Ampl;Po 33dBm Class C for Pi 29.5dBm at 2.3GHz,Vcc 18V
6♦#	2SC1600	17	NE	Si	TO46	AØ	Microwave Pwr Osc;Posc 28.5dBm at 1.7GHz,Vee 18V;Ga(max) 6.0dB at 1.0GHz
7♦#	2SC1655*	17	N-E	Si	W18	S	Microwave Ampl/Switch;Ga(max)10dB,(S21E)2 9.5dB at 2.0GHz,Vce 6.0V,Ic 10mA
8▼#	2SC1655A*	17	N-E	Si	W18	S	Lo Noise UHF Ampl,NF 3.0dB max at 500MHz,Vce 6.0V,Ic 5.0mA
9▼#	2SC1656*	17	N-E	Si	W18	S	Microwave Ampl/Switch,Ga(max) 10dB,(S21E)2 9.5dB at 2 0GHz,Vce 6.0V,Ic 10mA
10♦#	2SC1657*	17	N-E	Si	W108	QM	Dual Type 2SC1655;hFE1/hFE2 .60min,1.0max at Vce 3.0V,Ic 10mA
11♦#	2SC1658*	17	N-E	Si	W108	QM	Dual Type 2SC1656;hFE1/hFE2 .60min,1.0max at Vce 3 0V,Ic 10mA
12▼#	2SC1659*	17	N-E	Si	W116	S	Microwave Ampl/Switch;Ga(max) 15dB,(S21E)2 13dB at 1.0GHz,Vce 6.0V,Ic 30mA
13▼#	2SC1660*	17	N-E	Si	W116	S	Microwave Ampl/Switch;Ga(max) 15dB,(S21E)2 13dB at 1.0GHz,Vce 6.0V,Ic 30mA
14♦#	2SC1661*	17	N-E	Si	T140	QM	Dual Type 2SC1659;hFE1/hFE2 60min,1 0max at Vce 5.0V,Ic 30mA
15♦#	2SC1662*	17	N-E	Si	W108	QM	Dual Type 2SC1660;hFE1/hFE2 .60min,1.0max at Vce 5.0V,Ic 30mA
16♦#	2SC1673*	17	N-E	Si	T136	S	Hi Freq Pwr Ampl in Stripline Pkg W/Isolated Stud;Ga(max)5.0dB at 2 0GHz,10V,100mA
17#	2SC1710*	17	N-PE△	Si	T130	V	For HF Amp,CML Switching;Pd 1.0W;Ccb 800ff at VCB 6.0V;fT 7.0GHz at VCE 6.0V,IC 60mA
18#	2SC1711A*	17	N-PE	Si	W82	V	Pd 200mW;NF 2 5db at VCE 8.0V,IC 5.0mA,freq 2.0GHz;Ga 14.5db at 2.0GHz.
19#	2SC1712*	17	N-PE△	Si	W82	V	For HF Amp,CML Switching;Pd 200mW;Ccb 300ff at 6.0VCB;Ga 12db at 2.0GHz.
20#	2SC1713*	17	N-PE△	Si	W84	QE	Twin for CML Switch,Diff Amp;hFE1/2 .600 min;VBE(1-2)20mV max.
21#	2SC1714*	17	N-PE△	Si	W85	QF	Twin for CML Switch,Diff Amp;hFE1/2 .600 min;VBE(1-2)20mV max.
22#	2SC1715*	17	N-PE△	Si	W85	QG	Twin for CML Switch,Diff Amp,hFE1/2 .600 min;VBE(1-2)20mV max.
23#	2SC1716*	17	N-PE△	Si	W85	QH	Twin for CML Switch,Diff Amp;hFE1/2 .600 min,VBE(1-2)20mV max.
24♦#	2SC1731*	17	N-E	Si	W109	RE	Dual Type 2SC1090 for Diff Ampl and UHF Switch;hFE1/hFE2 .80min,1.0max
25♦#	2SC1732*	17	N-E	Si	W109	RE	Dual Type 2SC1458 for Diff Ampl and UHF Switch;hFE1/hFE2 .80min,1.0max
26♦#	2SC1733*	17	N-E	Si	R120	RE	Dual Type 2SC1275 for Diff Ampl and UHF Switch;hFE1/hFE2 .80min,1.0max
27▼#	2SC1791*	17	N-E	Si	T59d	S	Microwave Class A,AB Power Ampl;Po 6.0W typ at 1.0GHz,Pi 2.0W,Vcc 18V
28▼#	2SC1792*	17	N-E	Si	T59d	S	Microwave Class A,AB Power Ampl;Po 10W typ at 1.0GHz,Pi 4.0W,Vcc 18V
29▼#	2SC1797*	17	N-E	Si	W77	F	Microwave Power Ampl,Po 1.6W typ at 2.0GHz,Pi .20W,Vcc 28V
30▼#	2SC1798*	17	N-E	Si	W77	F	Microwave Power Ampl;Po 3.1W typ at 2.0GHz,Pi .50W,Vcc 28V
31▼#	2SC1799*	17	N-E	Si	W77	F	Microwave Power Ampl,Po 6.3W typ at 2.0GHz,Pi 1.0W,Vcc 28V
32▼#	2SC1800*	17	N-E	Si	W77	F	Microwave Power Ampl,Po 10W min at 2.0GHz,Pi 3.2W,Vcc 28V
33♦#	2SC1803*	17	N-E	Si	W116	S	VHF to Microwave Linear Ampl in Stripline Pkg,Po 22dBm to typ at 1.5GHz
34#	2SC1820*	17	N-PE	Si	TO39	A	Pd 3.0W max;Po 1 6W at VCC 18V,freq 175MHz,Pin 50mW;Cob 4.0pf at 20V.
35#	2SC1821*	17	N-PE	Si	T129a	Ge	Pd 7 0W max;Po 4.0W at VCC 20V,freq 470MHz,Pin 300mW;Cob 4.5pf at 20V
36#	2SC1822*	17	N-PE	Si	T129a	Ge	Pd 12W max,Po 7 5W at VCC 28V,freq 470MHz,Pin 1.0W;Cob 7.0pf at 20V.
37#	2SC1823*	17	N-PE	Si	T129a	Ge	Pd 25W max,Po 15W at VCC 28V,freq 470MHz,Pin 3.0W;Cob 12pf at 20V.
38#	2SC1824*	17	N-PE	Si	T129a	Ge	Pd 40W max;Po 30W at VCC 28V,freq 470MHz,Pin 7.5W;Cob 23pf at 20V.
39#	2SC1825*	17	N-PE	Si	W81	V	Pd 75W max;Po 55W at VCC 28V,freq 470MHz,Pin 16W;Cob 45pf at 20V.
40♦#	2SC1924	17	N-E	Si	W109	RA	Dual Type 2SC1090 W/Com Emitter(Same Characteristics as Type 2SC1731)
41♦#	2SC1925	17	N-E	Si	W109	RE	Dual Type 2SC1090 W/Independent Connections(Same Characteristics as Type 2SC1731)
42♦#	2SC1926	17	N-E	Si	W109	RA	Dual Type 2SC1275 W/Com Emitter(Same Characteristics as Type 2SC1733)
43♦#	2SC1927	17	N-E	Si	W109	RE	Dual Type 2SC1275 W/Independent Connections(Same Characteristics as Type 2SC1733)
44#	2SC1930	17			W87	V	VCBO 16V,VEBO 3.0V;VCEO 8.0V,IC 30mA;hFE 80 Typ;ft 7.0GHz min;Pc 150mW
45#	2SC1931	17	N*		W84	QM	VCBO 16V;VEBO 3.0V;VCEO 8.0V,IC 30mA;hFE 80 Typ;ft 7.0GHz min;Pc 150mW/Unit
46#	2SC1932	17	N*		W85	QP	VCBO 16V;VEBO 3.0V;VCEO 8.0V;IC 30mA;hFE 80 Typ;ft 7.0GHz min;Pc 200mW/Unit
47#	2SC1933	17	N*		W84	QM	VCBO 15V;VEBO 3.0V;VCEO 10V;IC 40mA;hFE 80 Typ;ft 5.0GHz min;Pc 200mW/Unit
48#	2SC1934	17	N*		T131	QE	VCBO 20V;VEBO 3.0V;VCEO 10V;IC 80mA;hFE 80 Typ;ft 5.0GHz min;Pc 500mW/Unit
49#	2SC1935	17			W87	V	VCBO 15V;VEBO 3.0V;VCEO 10V;IC 30mA;hFE 80 Typ;ft 5.0GHz min;Pc 250mW
50#	2SC1936	17	N*		W84	QM	VCBO 15V;VEBO 3.0V;VCEO 10V;IC 30mA;hFE 80 Typ;ft 5.0GHz min;Pc 200mW/Unit
51#	2SC1937	17			W87	V	VCBO 15V;VEBO 3.0V;VCEO 10V;IC 70mA;hFE 80 Typ;ft 5.0GHz min;Pc 300mW
52#	2SC1938	17	N*		W85	QN	VCBO 15V;VEBO 3.0V;VCEO 10V,IC 30mA;hFE 80 Typ;ft 5.0GHz min;Pc 200mW/Unit
53#	2SC1939	17	N*		W85	QN	VCBO 15V,VEBO 3.0V;VCEO 10V;IC 30mA;hFE 80 Typ;ft 5.0GHz min;Pc 200mW/Unit
54♦#	2SC1948-1*	17	N-E	Si	W29c	S	Microwave Lo Noise Ampl in Stripline Pkg;NF 3.5dBmax,Gain 8.5dB type at 4.0GHz
55♦#	2SC1948-2*	17	N-E	Si	W29c	S	Microwave Lo Noise Ampl in Stripline Pkg;NF 4.0dBmax,Gain 8.5dB type at 4.0GHz
56♦#	2SC1948-5*	17	N-E	Si	W29c	S	Microwave Lo Noise Ampl in Stripline Pkg;NF 2.3dBmax at 1.85GHz
57♦#	2SC1949*	17	N-E	Si	W116	S	VHF to Microwave Linear Ampl in Stripline Pkg;(S21E)2,8.0dBmin at 1.0GHz
58♦#	2SC1950*	17	N-E	Si	W101	A	Microwave Pwr Ampl/Osc in Stripline Pkg;Osc Po 250mW at 5.0GHz,Vce 11V,Ic 140mA
59▼#	2SC1952*	17	N-E	Si	TO39	A	Microwave Wide Band Ampl;Ga(max) 16dB min at 200MHz,Vce 15V,Ic 50mA
60#	2SC1988*	17	N-E△	Si	TO72	G	UHF;NF 2 5dB max At VCE 10V;IC 3 0mA;f 500MHz;(S21e)2 15 Typ At IC 20mA
61#	2SC2025*	17	N-E△	Si	TO72	G	VHF,NF 4.0dB max At VCE 5.0V;IC 25mA;f 200MHz;RG 50Ω;Cob 2.0pf max
62#	2SC2026*	17	N-E△	Si	TO92	C	UHF,VHF;NF 4.0dB max At VCE 10V,IC 3.0mA;f 500MHz,RG 50Ω;Gpe 15dB max
63▼#	2SC2031	17	N-PE	Si	T129a	V	UHF;f470MHz;Po 2.5W;hFE50 Typ;VDC 21V,Pd 7.5W;Cob 5 0pF At VCB 20V
64▼#	2SC2032	17	N-PE	Si	T129a	V	UHF;f470MHz;Po 5.5W;hFE50 Typ;VDC 21V,Pd 12.5W;Cob 8 0pF At VCB 20V
65▼#	2SC2033	17	N-PE	Si	T129a	V	UHF,f470MHz;Po 18W;hFE50 Typ;VDC 21V;Pd 30W;Cob 18pF At VCB 20V
66#	2SC2037*	17	N-E△	Si	TO92	A	UHF,VHF,NF 4 0dB max At VCE 10V;IC 3.0mA;f 500MHz,RG 50Ω;Gpe 13dB Typ
67#	2SC2044*	17	N-PE	Si	W81	V	Pd 65W max,Po 42W at VCC 28V,freq 770MHz,Pin 15W;Cob 37pf at 20V.
68#	2SC2065*	17	N-E△	Si	T136	S	UHF;VHF;G max 14.5dB Typ At f 500MHz;IM 3-78dB At VCE 10V;IC 80mA;VO 110dBuV
69▼#	2SC2093*	17	N-E	Si	W101	AØ	Microwave Pwr Ampl/Dsc,Posc 22dBm,Po 22dBm(Pi 19dBm) at 5.0GHz,Vce 11V,Ic 100mA
70▼#	2SC2148*	17	N-E	Si	W100	S	Microwave Lo Noise Ampl;Unity Power Gain Freq 2 9GHz;NF 2.1dB at 500MHz,10V,3.0mA
71▼#	2SC2149*	17	N-E	Si	W100	S	Microwave Lo Noise Ampl;Unity Power Gain Freq 4.3GHz;NF 2.6dB at 2.0GHz,10V,5.0mA
72▼#	2SC2150*	17	N-E	Si	W100	S	Microwave Lo Noise Ampl,Unity Power Gain Freq 5 5GHz;NF 4.3dB at 4.0GHz,8.0V,3.0mA
73▼#	2SK85	17	N-S	GA	W117	EX⍁	X Band FET;Ga(max) 11dB,(S21E)2 4.0dB,NF 4.5dB all at 8.0GHz,VDS 3.0V,ID 30mA
74	0912-70	17	N-D	Si			UHF;f 1 2GHz,PO 70W;Power Gain 6.7dB;VDC 43V,Eff 40%;Pt 115W;DF 555mW/°C
75	0912-100	17	N-D	Si			UHF;f 1.2GHz;PO 100W;Power Gain 6.0dB;VDC 43V,Eff 40%;Pt 115W;DF 555mW/°C
76	0912-200	17	N-D	Si			UHF;f 1.2GHz,PO 100W;Power Gain 4.5dB;VDC 50V;Eff 40%;Pt 250W;DF 1.4W/°C
77	2001*	17	N	Si	W24	A	RF;PO 1.0W min;Pin 200mW at 2 0GHz;Efficiency 33%;CCB 2.5pF max.
78	2002	17	N-D	Si			UHF;f 2 0GHz;PO 2.0W;Power Gain 7dB;VDC 28V;Eff 33%;Pt 8.5W;DF 47mW/°C
79	2003*	17	N	Si	W24	A	RF;PO 2.5W min;Pin 500mW at 2.0GHz;Efficiency 33%;CCB 5.0pF max.
80	2005*	17	N	Si	W24	A	RF,PO 5.0W min;Pin 1.0W at 2.0GHz;Efficiency 35%;Cob 7.0pF max
81	2010*	17	N-E	Si	W24	A	RF,PO 10W min;Pin 3.0W at 2.0GHz;Efficiency 33%;CCB 11pF max
82	2303	17	N-D	Si			UHF;f 2.3GHz,PO 2 5W;Power Gain 8.5dB;VDC 28V;Eff 47%,Pt 6.0W,DF 33mW/°C
83	2305	17	N-D	Si			UHF;f 2.3GHz;PO 5.0W;Power Gain 9.0dB,VDC 28V;Eff 45%;Pt 12W;DF 66mW/°C
84	40953*	17	N-PE	Si	TO39	G	Class C;PO 1 75W min;Power Gain 12.4db min;Efficiency 50% min;Vcc 15.5V
85	40975*	17	N-PE	Si	TO39	G	Class C;PO 50mW min;Power Gain 10db min;Collector Current 60mA max;Vcc 12.5V
86	40976*	17	N-PE	Si	TO39	G	Class C;PO 500mW min,Power Gain 10db min,Collector Current 140mA max;Vcc 12.5V.
87	41024*	17	N-PE	Si	TO39	AØ	Class B or C,PO 1.0W min at 1.0GHz;Efficiency 35% min,Cob 3.0pf max.
88	41038*	17	N-PE	Si	TO46	AØ	PO 750mW min at 1 68 GHz;Efficiency 20% min;Cob 4 0pf max.
89▼	AMPAC1720-20	17			W112		PO 20W min at Pi 4.0W,BVCBO 45V;Ic 3 0A max;Pd 58W;Vcc 24V;Eff 40%
90▼	AMPAC2023-16	17			W112		PO 16W min at Pi 4.0W,BVCBO 45V;Ic 3.0A max;Pd 58W,Vcc 24V;Eff 40%
91▼	AMPAC2223-18	17			W112		PO 18W min at Pi 4 0W;BVCBO 45V;Ic 3 0A max;Pd 58W;Vcc 24V;Eff 40%
92▼#	BFQ19*	17	N-PE	Si	X166	B	Pt 500mW max;ft 5 0GHz typ;VCBO 20V;VCEO 15V;VEBO 3.0;hFE 50 typ;NF 3.3dB typ
93#	BFR14B*	17	N	Si	W14c	R	NF 1.5dB Typ At 200MHz;Ga 12 5dB At 2.0GHz;hFE 30 min;fT 6.0GHz;VCBO 20V
94	BFR49*	17	N	Si	W29	R	Pt 300mW max;BVCBO 20V max;BVCEO 15V max;BVEBO 2.0V;ICBO 50nA max;hFE 50.
95▼#	BFR53*	17	N-PE†	Si	X156e	A	Pt 180mW;ft 2.0GHz typ;Power Gain 10 5dB typ;NF 5.0dB max
96▼#	BFT92*	17	P-PE	Si	X156e	A	Pt 180mW,ft 5 0GHz typ;Power Gain 18dB typ;NF 2.7dB typ
97▼#	BFT93*	17	P-PE	Si	X156e	A	Pt 180mW;ft 5.0GHz typ;Power Gain 16.5dB typ,NF 2.4dB typ
98▼	BGY22	17			W103		UHF/VHF,Po 3.5Wmax;Freq Range 380-512MHz;Oper Volt 15V;Eff 40% min
99▼	BGY22A	17			W103		UHF/VHF;Po 2.5Wmax;Freq Range 420-480MHz;Oper Volt 12 5V;Eff 40% min
100▼	BGY23	17			W103		UHF/VHF;Po 9 0Wmax,Freq Range 380-512MHz;Oper Volt 15V;Eff 60% min
101▼	BGY23A	17			W103		UHF/VHF,Po 7.0Wmax,Freq Range 420-480MHz;Oper Volt 12.5V;Eff 60% min
102▼	BLW79	17	N	Si			Po 2.0W at 470MHz,Gp 9 0dB,Vcc 12.5V,Pt 8.5W;Vceo 17V;Ic 1.5A max
103▼	BLW80	17	N	Si			Po 4.0W at 470MHz;Gp 8.0dB;Vcc 12.5V;Pt 17W;Vceo 17V;Ic 3.0A max
104▼	BLW81	17	N	Si			Po 10W at 470MHz,Gp 6.0dB;Vcc 12.5V,Pt 35W;Vceo 17V;Ic 7.5A max
105#	BLX66*	17	N-PL	Si	W78	R	V.H.F./U H.F,Class B,Freq 470MHz;PO 2.5W min,Eff 65% min
106#	BLX67*	17	N-PL	Si	W78	R	V.H.F./U H.F,Class B;Freq 470MHz;PO 2 5W min,Eff 65% min.
107	C1-12Z	17	N-D	Si			UHF;f 475MHz;PO 1.0W;Power Gain 10dB,VDC 12.5V;Eff 65%;Pt 5.0W;DF 28mW/°C
108	C2M50-28R	17	N-D	Si			UHF,f 400MHz;PO 50W;Power Gain 8.0dB,VDC 28V,Eff 60%,Pt 110W;DF 625mW/°C
109	C2M60-28R	17	N-D	Si			UHF,f 400MHz,PO 60W;Power Gain 7.8dB,VDC 28V;Eff 65%;Pt 140W;DF 800mW/°C
110	C2M70-28R	17			W65b	S	UHF;Class A,AB,B,C;Pout 70W min;Pin 10W max;Freq rng 200-500MHz;Pt 140W;Eff 60% typ

14. MISCELLANEOUS TRANSISTORS

IN ORDER OF (1) CATEGORY & (2) TYPE No.

LINE No.	2 TYPE No.	1 CATEGORY USE	STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CODE	DESCRIPTION
1#	FJ401E	17	Ø		W18b	S	NF 3.5dB Typ At 4.0GHz;Ga 8.5dB Typ At 4.0GHz;hFE 80 Typ;ft 5.5GHz min;Pd 200mW
2#	FJ401F	17	Ø		W18a	S	NF 3.5dB Typ At 4.0GHz;Ga 8.5dB Typ At 4.0GHz;hFE 80 Typ;ft 5.5GHz min;Pd 150mW
3#	FJ402E1	17	Ø		W18b	S	NF 3.0dB Typ At 4.0GHz;Ga 11dB Typ At 4.0GHz;hFE 80 Typ;ft 5.0GHz min;Pd 200mW
4#	FJ402E	17	Ø		W18b	S	NF 3.5dB Typ At 4.0GHz;Ga 11dB Typ At 4.0GHz;hFE 80 Typ;ft 5.0GHz min;Pd 200mW
5#	FJ402F1	17	Ø		W18a	S	NF 3.0dB Typ At 4.0GHz;Ga 11dB Typ At 4.0GHz;hFE 80 Typ;ft 5.0GHz min;Pd 150mW
6#	FJ402F	17	Ø		W18a	S	NF 3.5dB Typ At 4.0GHz;Ga 11dB Typ At 4.0GHz;hFE 80 Typ;ft 5.0GHz min;Pd 150mW
7#	FJ901D	17			W87	V	VCBO 16V;VEBO 3.0V;VCEO 8.0V;IC 30mA;hFE 80 Typ;ft 6.5GHz min;Pd 250mW
8#	FJ901E	17			W18b	S	VCBO 16V;VEBO 3.0V;VCEO 8.0V;IC 30mA;hFE 80 Typ;ft 6.5GHz min;Pd 200mW
9#	FJ901F	17			W18a	S	VCBO 16V;VEBO 3.0V;VCEO 8.0V;IC 30mA;hFE 80 Typ;ft 6.5GHz min;Pd 150mW
10#	FJ901M	17	N*		W84	QM	ΔVBE 20mV max;hFE1/2 0.6 min;ft 6.5GHz min;VCEO 8.0V;IC 30mA;PT 250mW
11#	FJ901N	17	N*		W85	QJ	ΔVBE 20mV max;hFE1/2 0.6 min;ft 6.5GHz min;VCEO 8.0V;IC 30mA;PT 250mW
12#	FJ901P	17	N*		W85	QF	ΔVBE 20mV max;hFE1/2 0.6 min;ft 6.5GHz min;VCEO 8.0V;IC 30mA;PT 250mW
13#	FJ901R	17	N*		W85	QN	ΔVBE 20mV max;hFE1/2 0.6 min;ft 6.5GHz min;VCEO 8.0V;IC 30mA;PT 250mW
14#	FJ901S	17	N*		W85	QP	ΔVBE 20mV max;hFE1/2 0.6 min;ft 6.5GHz min;VCEO 8.0V;IC 30mA;PT 250mW
15#	FJ902D	17			W87	V	VCBO 20V;VEBO 3.0V;VCEO 10V;IC 30mA;hFE 80 Typ;ft 4.0GHz min;Pd 250mW
16#	FJ902E	17			W18b	S	VCBO 20V;VEBO 3.0V;VCEO 10V;IC 30mA;hFE 80 Typ;ft 4.0GHz min;Pd 200mW
17#	FJ902F	17			W18a	S	VCBO 20V;VEBO 3.0V;VCEO 10V;IC 30mA;hFE 80 Typ;ft 4.0GHz min;Pd 150mW
18#	FJ902M	17	N*		W84	QM	ΔVBE 20mV max;hFE1/2 0.6 min;ft 4.0GHz min;VCEO 10V;IC 30mA;PT 250mW
19#	FJ902N	17	N*		W85	QJ	ΔVBE 20mV max;hFE1/2 0.6 min;ft 4.0GHz min;VCEO 10V;IC 30mA;PT 250mW
20#	FJ902P	17	N*		W85	QF	ΔVBE 20mV max;hFE1/2 0.6 min;ft 4.0GHz min;VCEO 10V;IC 30mA;PT 250mW
21#	FJ902R	17	N*		W85	QN	ΔVBE 20mV max;hFE1/2 0.6 min;ft 4.0GHz min;VCEO 10V;IC 30mA;PT 250mW
22#	FJ902S	17	N*		W85	QP	ΔVBE 20mV max;hFE1/2 0.6 min;ft 4.0GHz min;VCEO 10V;IC 30mA;PT 250mW
23#	FJ950G	17			T88b	R	VCBO 45V;VEBO 3.0V;VCEO 30V;IC 300mA;hFE 80 Typ;ft 1.5GHz min;Pd 5.0W;Ga 7dB
24#	FJ951D	17			W87	V	VCBO 20V;VEBO 3.0V;VCEO 10V;IC 90mA;hFE 80 Typ;ft 4.0GHz;Pd 300mW;Ga 8dB max
25#	FJ951H	17			T130	V	VCBO 20V;VEBO 3.0V;VCEO 10V;IC 90mA;hFE 80 Typ;ft 4.0GHz;Pd 2.0W;Ga 8dB max
26#	FJ952H	17			T130	V	VCBO 20V;VEBO 3.0V;VCEO 10V;IC 130mA;hFE 80 typ;ft 5.5GHz min;Pd 2.0W;Ga 9.5dB
27#	FJ2001B18	17			W86	C	VCC 18V;Freq 2.0GHz;Pout 1.2W Typ;VCBO 35V;VEBO 3.5V;VCEO 20V;IC 600mA
28#	FJ2001E18	17			W86	A	VCC 18V;Freq 2.0GHz;Pout 1.5W Typ;VCBO 35V;VEBO 3.5V;VCEO 20V;IC 600mA
29#	FJ2003B18	17			W86	C	VCC 18V;Freq 2.0GHz;Pout 3.8W Typ;VCBO 35V;VEBO 3.5V;VCEO 20V;IC 1.5A
30#	FJ2003E18	17			W86	A	VCC 18V;Freq 2.0GHz;Pout 3.3W Typ;VCBO 35V;VEBO 3.5V;VCEO 20V;IC 1.5A
31#	FJ2007B18	17			W86	C	VCC 18V;Freq 2.0GHz;Pout 7.5W Typ;VCBO 35V;VEBO 3.5V;VCEO 20V;IC 3.0A
32#	FJ2010B24	17			W86	C	VCC 24V;Freq 2.0GHz;Pout 12W Typ;VCBO 35V;VEBO 3.5V;VCEO 20V;IC 3.0A
33▼#	FT1317	17			R176j	G	VCBO 30V;VEBO 3.0V;VCEO 18V;IC 150mA;hFE 80 Typ;fT 3.5GHz Typ;Pd 800mW
34♦#	FT1717R	17			W82	V	VCBO 20V;VEBO 3.0V;VCEO 13V;Ic 20mA;hFE 80 Typ;fT 7.0GHz Typ;Pd 200mW
35#	FT1720AR*	17	N-PE	Si	W82	V	Pd 200mW;NF 2.0db at VCE 6.0V,IC 5.0mA,freq 2.0GHz;Ga 12.5db at 2.0GHz.
36#	FT1720R*	17	N-PE	Si	W82	V	Pd 200mW;NF 3.0db at VCE 6.0V,IC 5.0mA,freq 2.0GHz;Ga 12.5db at 2.0GHz.
37#	FT1727AR*	17	N-PE	Si	W18a	S	Pd 150mW;NF 3.0db at VCE 8.0V,IC 3.0mA,freq 4.0GHz;Ga 11db at 4.0GHz.
38#	FT1727R*	17	N-PE	Si	W18a	S	Pd 150mW;NF 4.0db at VCE 8.0V,IC 3.0mA,freq 4.0GHz;Ga 11db at 4.0GHz.
39#	FT3716*	17	N-PE	Si	W18a	S	Pd 150mW;for HF Low-Noise Amp;Ccb 900pf at 10V;fT 3.0GHz at VCE 6.0V,IC 10mA.
40#	FT3717*	17	N-PE	Si	W18a	S	Pd 150mW;for HF Low-Noise Amp;Ccb 300pf at 6.0V;Ga 12db at 2.0GHz.
41#	FT3718*	17	N-PE	Si	W18a	S	Pd 150mW;NF 3.0db at VCE 8.0V,Ic 5.0mA,freq 2.0GHz;Ga 14.5db at 2.0GHz.
42▼#	FT3719	17			W18a	S	VCBO 20V;VEBO 3.0V;VCEO 10V;IC 70mA;hFE 80 Typ;fT 5.0GHz Typ;Pd 150mW
43#	FT5720R*	17	N-PEΔ	Si	W84	QE	Twin for CML Switch,Diff Amp;hFE1/2 .600 min;VBE(1-2)20mV max.
44#	FT5726CR*	17	N-PEΔ	Si	W85	QF	Twin for CML Switch,Diff Amp;hFE1/2 .600 min;VBE(1-2)20mV max.
45#	FT5727CR*	17	N-PEΔ	Si	W85	QG	Twin for CML Switch,Diff Amp;hFE1/2 .600 min;VBE(1-2)20mV max.
46#	FT5728CR*	17	N-PEΔ	Si	W85	QH	Twin for CML Switch,Diff Amp;hFE1/2 .600 min;VBE(1-2)20mV max.
47#	FT5735R*	17	N-PEΔ	Si	T131	QE	Twin for CML Switch,Diff Amp;hFE1/2 .600 min;VBE(1-2)20mV max.
48#	FT5737R*	17	N-PEΔ	Si	W85	QH	Twin for CML Switch,Diff Amp;hFE1/2 .600 min;VBE(1-2)20mV max.
49#	FT5738R*	17	N-PEΔ	Si	W85	QG	Twin for CML Switch,Diff Amp;hFE1/2 .600 min;VBE(1-2)20mV max.
50#	FT5739R*	17	N-PEΔ	Si	W85	QF	Twin for CML Switch,Diff Amp;hFE1/2 .600 min;VBE(1-2)20mV max.
51#	FT5740R*	17	N-PEΔ	Si	W85	QJ	Twin for CML Switch,Diff Amp;hFE1/2 .600 min;VBE(1-2)20mV max.
52#	FT5741R*	17	N-PEΔ	Si	W84	QE	Twin for CML Switch,Diff Amp;hFE1/2 .600 min;VBE(1-2)20mV max.
53	FTR129A*	17	N-DPL	Si	TO92	E	Pd 500mW;fT 1.0GHz At 100MHz;VCBO 35V;CB Osc;IC 30mA max
54#	GAT1	17	N	GA	TO72	EW	FET;f 1.0GHz;Power Gain 10dB Typ;NF 5.0dB max;BVDSS 12V;VP 10V At VDS 5.0V;Pt 300mW
55#	GAT1/010	17	N	GA	TO72	EW	FET;f 1.0GHz;Power Gain 12dB Typ;NF 3.0dB max;BVDSS 12V;VP10V At VDS 5.0V;Pt 300mW
56#	GAT2	17	N	GA	W107	DA	FET;f 3.0GHz;Power Gain 8.0dB Typ;NF 5.0dB max;BVDSS 6.0V;VP 10V At 5.0V;Pt 300mW
57#	GAT2/010	17	N	GA	W107	DA	FET;f 3.0GHz;Power Gain 10dB Typ;NF 4.0dB max;BVDSS 6.0V;VP 10V At VDS 5.0V;Pt 300mW
58#	GAT3	17	N	GA	W107	DA	FET;f 8.0GHz;Power Gain 6.0dB Typ;NF 6.0dB max;BVDSS 6.0V;VP10V At VDS 5.0V;Pt 300mW
59#	GAT3/010	17	N	GA	W107	DA	FET;f 8.0GHz;Power Gain 6.0dB Typ;NF 4.0dB max;BVDSS 6.0V;VP 10V At VDS 5.0V;Pt300mW
60#	GAT4	17	N	GA	T138	DA	FET;f 12GHz;Power Gain 8.0dB Typ;NF 4.0dB max;BVDSS 6.0V;VP 10V At VDS 5.0V;Pt 300mW
61#	GAT5	17	N	GA	T138	DA	FET;f 10GHz;Power Gain 10dB Typ;NF 3.5dB max;BVDSS 6.0V;VP 10V At VDS 5.0V;Pt 300mW
62#	GT383A	17	N-PL	Ge	W99	S	Pd 25mW max;ft 2.4GHz min;VCB 5.0V max;IC 10mA max;hFE 15-250 At VC 3.2V,IE 5.0mA
63#	GT383B	17	N-PL	Ge	W99	S	Pd 25mW max;ft 1.5GHz min;VCB 5.0V max;VCE 5.0V max;hFE 10-250 At VC 3.2V,IE 5.0mA
64#	GT383V	17	N-PL	Ge	W99	S	Pd 25mW max;ft 3.6GHz min;VCB 5.0V max;VCE 5.0V max;hFE 15-250 At VC 3.2V,IE 5.0mA
65	HFET1000	17	N	GA			FET Chip;NF 2.9dB Typ At 8.0GHz;Ga 8.9dB Typ At 8.0GHz;VDS 5.0V
66	HP35812E*	17	N		T125		Pt 1.6W max;Po 28dbm typ at 2.0GHz;Tuned Gain at VCE 15V,Ic 100mA,6db min.
67♦	HP35820A*	17	N	Si	C21		Unpackaged Chip of HP35820 Series;Usable to 5GHz;hFE 15-125 at Vc 15V,Ic 15mA
68▼	HP35821B*	17	N	Si	W17	AD	Common Base Stripline Pkg;(S21B)2 5.1dB typ at Vc 15V,Ic 15mA
69	HP35821E*	17	NØ	Si	W17	S	Pt 700mW;Ga(max) 6.0dB;(S21E)2 1dB;All at f 4GHz;VCE 15V,IC 15mA;F min 2.3dB.
70	HP35822E*	17	NØ	Si	W8a	V	Pt 375mW;Ga(max) 6.0dB;(S21E)2 1dB;All at f 4GHz;VCE 15V,IC 15mA;F min 2.3dB.
71▼	HP35824A*	17	N	Si	TO72	G	General Purpose 100MHz to 2.0GHz Ampl/Osc;NF 3dB typ at 1.0GHz,Vc 10V,Ic 5mA
72	HP35826E*	17	NØ	Si	W26a	V	Pt 700mW;Ga(MAX)6dB;(S21E)2 1dB;All at f 4GHz,VCE 15V,IC 15mA;F min 2.3dB.
73▼	HP35827B*	17	N	Si	W32	A	Common Base Coax Pkg,Po 100mW Typ,(S21B)2 4.3dB both at 2.0GHz,Vc 20V,Ic 35mA
74♦	HP35827E*	17	N	Si	W32	C	Pt 700mW;Ga(max) 6dB;(S21E)2 1dB;All at f 4GHz,VCE 15V,IC 15mA.
75▼	HP35828E*	17	N	Si	W26b	V	Common Emitter Tuned Ampl;(S21E)2 8dB,Ga(max) 14dB both at 2.0GHz,Vc 15V,Ic 15mA
76▼	HP35829E*	17	N	Si	W36		Common Emitter Tuned Ampl;(S21E)2 6.8dB,Ga(max) 12dB both at 2.0GHz,Vc 15V,Ic 15mA
77▼	HP35831BOpt005*	17	N	Si	W17	AD	Linear Power Ampl;Common Base Stripline Pkg;Pt 1.6W;(S21B)2 4.0dB at Vc18V,Ic60mA
78	HP35831EOpt005*	17	N	Si	W17	S	Pt 700mW;Ga(max) 8dB;(S21E)2 4dB;All at f 2.0GHz,VCE 18V,IC 60mA.
79♦	HP35850A*	17	N	Si	C23		Unpackaged Chip of HP35850 Series;Linear Power Transistor;hFE 15-125 at Vc15V,Ic100mA
80▼	HP35853B*	17	N	Si	W16	E	Common Base Grounded Bar Pkg;Class C Pwr Ampl/Osc Applications;Pt 2.5W
81	HP35853E	17	N	Si	W16	F	Pt 2.5W;Ga(max) 8dB;(S21E)2 3.3dB;All at f 2.0GHz,VCE 15V,IC 100mA.
82▼	HP35854B*	17	N	Si	T112	E	Common Base Grounded Stud Pkg;Class C Pwr Ampl/Osc Applications;Pt 2.5W
83	HP35854E	17	N	Si	T112	F	Pt 2.5W;Ga(max) 8dB;(S21E)2 3.3dB;All at f 2.0GHz,VCE 15V,IC 100mA.
84	HP35859E*	17	N		W36		Pt 1.6W max;PO 28dbm typ at 2.0GHz;Tuned Gain at VCE 15V,IC 100mA,6db min.
85♦	HP35860A*	17	N	Si	C22		Unpackaged Chip of HP35860 Series;Low Noise Transistor;hFE 20-200 at Vc 10V,Ic 10mA
86	HP35861E*	17	NØ	Si	W17	S	Pt 300mW;(S21E)2 9.5dB at VCE 10V,IC 10mA,f 2.0GHz;F min 3.3dB.
87	HP35861EOpt100*	17	NØ	Si	W17	S	Pt 300mW;(S21E)2 9.5dB at VCE 10V,IC 10mA,f 2.0GHz;F min 2.5dB.
88	HP35862E*	17	NØ	Si	W8a	V	Pt 300mW;(S21E)2 9.5dB at VCE 10V,IC 10mA,f 2.0GHz;F min 3.3dB.
89	HP35862EOpt100*	17	NØ	Si	W8a	V	Pt 300mW;(S21E)2 9.5dB at VCE 10V,IC 10mA,f 2.0GHz;F min 2.5dB.
90	HP35866E*	17	NØ	Si	W26a	V	Pt 300mW;(S21E)2 9.5dB,Ga(max) 14dB all at f 2.0GHz,VCE 10V,IC 10mA;F min 3.3dB.
91	HP35866EOpt100*	17	NØ	Si	W26a	V	Pt 300mW;(S21E)2 9.5dB,Ga(max) 14dB all at f 2.0GHz,VCE 10V,IC 10mA;F min 2.5dB.
92	HP35867B	17	N	Si	W32	A	VCBO 20V;VEBO 1.5V;VCEO 15V;IC 20mA;hFE 80 Typ;f 8.0GHz;Pd 300mW
93	HP35867E	17	N	Si	W32	C	VCBO 20V;VEBO 1.5V;VCEO 15V;IC 20mA;hFE 80 Typ;f 8.0GHz;Pd 300mW
94	HP35868E*	17	NØ	Si	W69a		Pt 250mW;NF 4.5dB At 4.0GHz;Ga 8.0dB min At 4.0GHz;hFE 20 min
95	HP35868L*	17	NØ	Si	W69a		Pt 250mW;NF 4.5dB At 4.0GHz;Ga 8.0dB min At 4.0GHz;hFE 20 min
96▼	HXTR2101*	17	N	Si	W26a	V	Tuned Ampl;Stripline Pkg;Tuned Gain 9.0dB min,Po1db18dBm typ at 4.0GHz,Vc15V,Ic25mA
97	HXTR6101*	17	NØ	Si	W69a	Y	Pt 180mW;NF 3.0dB max At 4.0GHz;Ga 8.0dB Typ At 4.0GHz;hFE 50 min
98	HXTR6102	17	N		W26b	V	NF 2.7dB max At 4.0GHz;Ga 9.0dB Type At 4.0GHz;hFE 50 min;VCBO 30V;Pd 180mW
99▼	HXTR6103*	17	N	Si	W26a	V	Lo Noise 2.0GHz Ampl;Stripline Pkg;NF 2.2dB max;Gain 11dB min at 2.0GHz,Vc10V,Ic3.0mA
100▼	HXTR6104*	17	N	Si	W26a	V	Lo Noise 1.5GHz Ampl;Stripline Pkg;NF 1.6dB max;Gain 13dB min at 1.5GHz,Vc10V,Ic3.0mA
101♦	HXTR6105*	17	N	Si	W26a	V	Lo Noise 4.0GHz Ampl;Stripline Pkg;NF 4.2dBmax;Gain 8.0dBmin at 4.0GHz,Vc15V,Ic15mA
102#	KT339A	17	N-PE	Si	R176f	J	Pd 250mW max;ft 300MHz min;VCB 40V max;IC 25mA max;hFE 25 min At VC 10V,IE 7.0mA
103#	KT371A	17	P-PE	Si	W95	A	Pd 100mW max;ft 3.0GHz min;VCB 10V max;IC 15mA max;hFE 30-240 At VC 5.0V,IE 10mA
104#	KT372A	17	P-PE	Si	W98	R	Pd 50mW max;ft 2.4GHz min;VCB 15V max;IC 10mA max;hFE 10 min At VC 5.0V,IE 5.0mA
105#	KT372B	17	P-PE	Si	W98	R	Pd 50mW max;ft 3.0GHz min;VCB 15V max;IC 10mA max;hFE 10 min At VC 5.0V,IE 5.0mA

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

14. MISCELLANEOUS TRANSISTORS

IN ORDER OF (1) CATEGORY & (2) TYPE No.

LINE No.	2 TYPE No.	1 CATEGORY USE	STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CODE	DESCRIPTION
1	MSC1100*	17	N-E	Si	W77	F	Power Output 100W,Power Gain 10db;Cob at 40V 13pF;freq 1.09GHz.
2▼	MSC1315	17	N	Si	T96	A	Class C;Power Output 17W and Power Gain 9 0dB at 1.3GHz;Vcc 28V;Eff 60%
3▼	MSC1330	17	N	Si	W23	F	Class C;Power Output 70W and Power Gain 10dB at 1.3GHz,Vcc 28V;Eff 55%
4	MSC2001*	17	N-E	Si	W77	F	Class B and C,PO(Amp)1.0W and Power Gain 8.0db at 2.0GHz,Vcb 28V;Eff. 30%
5	MSC2003*	17	N-E	Si	W77	F	Class B and C;PO(Amp)3 0W and Power Gain 7 0db min at 2.0GHz,Vcb 28V,Eff. 30%.
6	MSC2005*	17	N-E	Si	W77	F	Class B and C;PO(Amp)5.8W and Power Gain 7 0db min at 2.0GHz,Vcb 28V,Eff. 30%.
7	MSC2010*	17	N-E	Si	W77	F	Class B and C,PO(Amp)10W min and Power Gain 5.0db min at 2.0GHz,Vcb 28V,Eff. 33%.
8	MSC2100*	17	N	Si	W77	E	Class A;PO 1db 25dbm and Power Gain 12db at 1.0GHz,Vce 18V;NF 14db,Ip(3)38.5dBm.
9▼	MSC3000	17	N	Si	W23	F	Class A,PO(Amp) 600mW and Power Gain 8.0dB at 3.0GHz;Vcb 28V,Eff 30%
10▼	MSC3001	17	N	Si	W23	F	Class A;PO(Amp) 1.2W and Power Gain 8.0dB at 3 0GHz;Vcb 28V;Eff 32%
11▼	MSC3003	17	N	Si	W23	F	Class A,PO(Amp) 3.0W and Power Gain 6.0dB at 3.0GHz;Vcb 28V;Eff 32%
12▼	MSC3005	17	N	Si	W23	F	Class A;PO(Amp) 5.0W and Power Gain 5.0dB at 3.0GHz;Vcb 28V;Eff 32%
13▼	MSC4000	17	N	Si	W23	F	Class C,PO 500mW and Power Gain 5.0dB at 4.0GHz;Vcc 28V;Eff 25%
14▼	MSC4001	17	N	Si	W23	F	Class C;PO 1 0W and Power Gain 5 0dB at 4.0GHz;Vcc 28V;Eff 25%
15▼	MSC4003	17	N	Si	W23	F	Class C;PO 2.5W and Power Gain 5 0dB at 4.0GHz,Vcc 28V;Eff 30%
16▼	MSC4005	17	N	Si	W23	F	Class C,PO 5.0W and Power Gain 4.0dB at 4.0GHz;Vcc 28V;Eff 30%
17	MSC80040*	17	N	Si	T95	R	Class A;PO 1db 25dbm and Power Gain 12db at 1.0GHz,Vce 18V;NF 14db,Ip(3)38.5dBm
18	MSC80044*	17	N	Si	T95	R	Class A,PO 1db 21.5dbm and Power Gain 10db at 2.0GHz,Vce 18V,NF 11db,Ip(3)36dBm.
19	MSC80064*	17	N	Si	W77	F	Class A;PO 1db 21 5dbm and Power Gain 10db at 2.0GHz,Vce 18V;NF 11db,Ip(3)36dBm.
20	MSC80069*	17	N-E	Si	T95	R	Class B and C;PO(osc) 4.0W and Power Gain (Amp) 6.0db at 1.0GHz,VCC 28V.
21	MSC80080*	17	N-E	Si	T95	R	Class B and C,PO(osc) 7.5W and Power Gain(Amp) 6.0db at 1.0GHz,VCC 28V.
22	MSC80081*	17	N-E	Si	T95	R	Class B and C;PO(osc) 13W and Power Gain(Amp) 5.2db at 1.0GHz,VCC 28V.
23	MSC80090*	17	N-E	Si	T95	R	Class B and C,PO(osc) 1 3W and Power Gain(Amp) 8.0db at 1.0GHz,VCC 28V.
24	MSC80185*	17	N	Si	T95	R	Class A;PO 1db 28dbm and Power Gain 8.5db at 2.0GHz,Vce 18V;NF 12db,Ip(3)36dBm.
25	MSC80186*	17	N	Si	T95	R	Class A,PO 1db 30.5dbm and Power Gain 8 0db at 2.0GHz,Vce 18V;NF 12.5db,Ip(3)38dBm.
26	MSC80187*	17	N	Si	T95	R	Class A;PO 1db 31 7dbm and Power Gain 7 0db at 2.0GHz,Vce 18V;NF 12.5db,Ip(3)39dBm.
27	MSC80195*	17	N	Si	W77	F	Class A,PO 1db 28dbm and Power Gain 8.5db at 2.0GHz,Vce 18V;NF 12db,Ip(3)36dBm.
28	MSC80196*	17	N	Si	W77	F	Class A;PO 1db 30 5dbm and Power Gain 8 0db at 2.0GHz,Vce 18V;NF 12.5db,Ip(3)38dBm.
29	MSC80197*	17	N	Si	W77	F	Class A;PO 1db 31.7dbm and Power Gain 7.0db at 2.0GHz,Vce 18V;NF 12.5db,Ip(3)39dBm.
30▼	MSC85401	17	N	Si	W32a	A	VCBO 45V,VEBO 3.5V;PO(osc)150mW Typ;Freq 5.0GHz,Vcc 20V;Eff 12%
31▼	MSC85402	17	N	Si	W32a	C	VCBO 45V,VEBO 3.5V;PO(osc)150mW Typ;Freq 5.0GHz;Vcc 20V;Eff 12%
32▼	MSC85403	17	N	Si	W32a	C	VCBO 45V,VEBO 3.5V;PO(osc)300mW Typ;Freq 5.0GHz;Vcc 20V;Eff 12%
33▼	MSC85404	17	N	Si	W32a	A	VCBO 45V;VEBO 3.5V;PO(osc)500mW Typ;Freq 3.0GHz;Vcc 20V;Eff 20%
34▼	MSC85405	17	N	Si	W32a	C	VCBO 45V,VEBO 3.5V,PO(osc)500mW Typ;Freq 3 0GHz;Vcc 20V;Eff 20%
35▼	MSC85406	17	N	Si	W32a	C	VCBO 45V;VEBO 3.5V,PO(osc)900mW Typ;Freq 3.0GHz;Vcc 20V;Eff 20%
36▼	MSC85470	17	N	Si	W113	A	VCBO 55V;VEBO 3.5V;PO(osc)600mW Typ;Freq 2.0GHz;Vcc 21V;Eff 28%
37▼	MSC85501	17	N	Si	W113	A	VCBO 45V;VEBO 3.5V;PO(osc)400mW Typ;Freq 4.3GHz;Vcc 21V;Eff 12%
38▼	MSC85502	17	N	Si	W113	C	VCBO 45V;VEBO 3.5V;PO(osc)400mW Typ;Freq 4.3GHz;Vcc 21V;Eff 12%
39▼	MSC85503	17	N	Si	W113	A	VCBO 45V;VEBO 3.5V;PO(osc)210mW Typ,Freq 4.3GHz;Vcc 21V;Eff 14%
40▼	MSC85504	17	N	Si	W113	C	VCBO 45V;VEBO 3.5V;PO(osc)210mW Typ;Freq 4.3GHz;Vcc 21V;Eff 14%
41▼	MSC85601	17	N	Si	W114a	A	VCBO 45V;VEBO 3.5V,PO(osc)150mW Typ;Freq 5.0GHz;Vcc 20V;Eff 10%
42▼	MSC85602	17	N	Si	W114a	C	VCBO 45V;VEBO 3.5V;PO(osc)150mW Typ;Freq 5.0GHz;Vcc 20V;Eff 10%
43▼	MSC85603	17	N	Si	W114a	B	VCBO 45V;VEBO 3.5V;PO(osc)100mW Typ;Freq 6.0GHz;Vcc 20V;Eff 10%
44▼	MSC85604	17	N	Si	W114a	A	VCBO 45V;VEBO 3.5V;PO(osc)300mW Typ;Freq 5.0GHz,Vcc 20V;Eff 10%
45▼	MSC85605	17	N	Si	W114a	C	VCBO 45V;VEBO 3.5V;PO(osc)300mW Typ;Freq 5.0GHz;Vcc 20V;Eff 10%
46▼	MSC85606	17	N	Si	W114a	B	VCBO 45V;VEBO 3.5V;PO(osc)200mW Typ;Freq 6 0GHz;Vcc 20V;Eff 10%
47▼	MSC85836	17	N	Si	W113	C	VCBO 55V;VEBO 3.5V;PO(osc)600mW Typ;Freq 2.0GHz;Vcc 21V;Eff 28%
48▼	MSC85837	17	N	Si	W113	C	VCBO 50V;VEBO 3.5V;PO(osc)1.3W Ttp;Freq 2 0GHz;Vcc 28V;Eff 28%
49▼	MSC85853	17	N	Si	W113	A	VCBO 45V;VEBO 3.5V;PO(osc)600mW Typ;Freq 3.0GHz;Vcc 21V;Eff 20%
50▼	MSC85854	17	N	Si	W113	A	VCBO 45V;VEBO 3.5V;PO(osc)1.2W Typ;Freq 3.0GHz;Vcc 21V;Eff 20%
51▼	MSC85855	17	N	Si	W113	C	VCBO 45V;VEBO 3.5V;PO(osc)600mW Typ;Freq 3.0GHz;Vcc 21V;Eff 20%
52▼	MSC85856	17	N	Si	W113	C	VCBO 45V;VEBO 3.5V;PO(osc)1.2W Typ;Freq 3.0GHz;Vcc 21V;Eff 20%
53▼	MSC85920	17	N	Si	W113	A	VCBO 50V;VEBO 3 5V;PO(osc)1.3W Typ;Freq 2 0GHz;Vcc 28V;Eff 28%
54▼	MSC88002	17	N	GA	W114	DE	VDS 8.5V max;VGS-8.0V;Pt 3.2W;IDSS 200mAmin;Vp 6.0V;PO 350mW;X-Band
55#	NE02135	17	Δ		W100	S	Freq 4.3GHz typ,NF 2 6db typ At 2.0GHz
56#	NE57835	17	Δ		W100	S	Freq 5.5GHz typ;NF 4 3db typ At 4.0GHz
57#	NE73435	17	Δ		W100	S	Freq 2 9GHz typ;NF 2 1db typ At 500MHz
58▼#	PGAT100	17	N	GA	T138a	DA	MESFET;VDS12V max;VGS-8.0V max;Pt 1 4W;IDSS150mA max;Vp 6.0V;PO19dBm min at 5GHz
59▼#	PGAT200	17	N	GA	T138a	DA	MESFET;VDS12V max;VGS-8 0V max;Pt 1.4W;IDSS160mA max;Vp 6.0V;PO22dBm min at 5GHz
60#	RTC104L	17	N	Si			Linear;Po 200mW At 3 0GHz;Gp 7.0dB;VCC 12V;IC 80mA
61#	RTC105L	17	N	Si			Linear;Po 200mW At 3.0GHz;Gp 7 0dB;VCC 12V;IC 80mA
62#	RTC108L	17	N	Si			Linear;Po 400mW At 1.0GHz;Gp 10dB,VCC 15V;IC 100mA
63#	RTC109L	17	N	Si			Linear,Po 400mW At 1.0GHz,Gp 10dB,VCC 15V;IC 100mA
64#	RTC110L	17	N	Si			Linear;Po 800mW At 1.5GHz;Gp 7.0dB;VCC 15V,IC 120mA
65#	RTC111L	17	N	Si			Linear;Po 800mW At 1.5GHz;Gp 7.0dB;VCC 15V,IC 120mA
66#	RTC112L	17	N	Si			Linear;Po 400mW At 1.0GHz;Gp 10dB;VCC 15V,IC 100mA
67#	RTC113L	17	N	Si			Linear;Po 400mW At 1.0GHz,Gp 10dB,VCC 15V,IC 100mA
68#	RTC116L	17	N	Si			Linear;Po 400mW At 3.0GHz;Gp 5.0dB;VCC 18V;IC 140mA
69#	RTC117L	17	N	Si			Linear;Po 400mW At 3 0GHz;Gp 5.0dB,VCC 18V;IC 140mA
70#	RTC118L	17	N	Si			Linear,Po 300mW At 4.0GHz,Gp 5.5dB;VCC 20V;IC 100mA
71#	RTC119L	17	N	Si			Linear;Po 300mW At 4 0GHz;Gp 5 5dB;VCC 20V;IC 100mA
72#	RTC1010	17	N	Si			Po 12W At 1.0GHz,Gp 10dB;VCC 28V;Efficiency 55%
73#	RTC1020	17	N	Si			Po 20W At 1.0GHz;Gp 8.0dB,VCC 28V;Efficiency 45%
74#	RTC1040	17	N	Si			Po 40W At 1.0GHz;VCC 45V
75#	RTC2001	17	N	Si			Po 1 0W At 2.0GHz;Gp 9.0dB;VCC 28V;Efficiency 35%
76#	RTC2003	17	N	Si			Po 3.0W At 2.0GHz,Gp 8.0dB,VCC 28V;Efficiency 35%
77#	RTC2005	17	N	Si			Po 6.0W At 2.0GHz;Gp 7.0dB;VCC 28V;Efficiency 45%
78#	RTC2010	17	N	Si			Po 10W At 2.0GHz;Gp 6.0dB;VCC 28V;Efficiency 40%
79#	RTC2020	17	N	Si			Po 20W At 2 0GHz;Gp 5.0dB;VCC 28V,Efficiency 40%
80#	RTC3000	17	N	Si			Po 6.0W At 3.0GHz;Gp 8.0dB;VCC 28V;Efficiency 30%
81#	RTC4000	17	N	Si			Po 400mW At 4.0GHz;Gp 6.0dB,VCC 28V;Efficiency 27%
82#	RTC4001	17	N	Si			Po 1 0W At 4.0GHz;Gp 5.5dB;VCC 28V;Efficiency 30%
83#	RTC4003	17	N	Si			Po 2 8W At 4.0GHz;Gp 4.5dB;VCC 28V;Efficiency 30%
84	SCA0005*	17	N	Si	W14b	R	Pt 1.2W;Ga(max)8.0dB At 1.0GHz;VCE 30V;IC 400mA max;ft 2.2GHz
85	SCA13682*	17	N	Si	TO39		Pt 1.2W;Ga(max)8 0dB At 1.0GHz;VCE 30V;IC 400mA max;ft 2.2GHz
86	SCA13683*	17	N	Si	TO72		Pt 1.2W;Ga(max)8.0dB At 1.0GHz;VCE 30V,IC 400mA max;ft 2.2GHz
87▼#	V912A*	17	N-E	Si	W18	S	Microwave Lo Noise Ampl;NF 1.5dB max at 500MHz,Vce 10V,Ic 3.0mA
88▼#	V912B*	17	N-E	Si	W18	S	Microwave Lo Noise Ampl;NF 2.0dB max at 500MHz,Vce 10V,Ic 3 0mA
89▼#	V912C*	17	N-E	Si	W18	S	Microwave Lo Noise Ampl;NF 2.5dB max at 500MHz,Vce 10V,Ic 3 0mA
90▼#	V913A*	17	N-E	Si	W18	S	Microwave Low Noise Ampl;NF 4 3dB,(S21E)2 2.0dB at 4.0GHz,Vce 8.0V,Ic 3 0mA
91▼#	V913B*	17	N-E	Si	W18	S	Microwave Low Noise Ampl;NF 4.8dB,(S21E)2 2.0dB at 4.0GHz,Vce 8.0V,Ic 3.0mA
92▼#	V913C*	17	N-E	Si	W18	S	Microwave Low Noise Ampl;NF 5.5dB,(S21E)2 2.0dB at 4.0GHz,Vce 8.0V,Ic 3.0mA
93▼	2N2963*	18	P	Ge	T146	AØ	VHF,Class C,Po 500mW typ;Eff 40% min;Power Gain 5dB min
94▼	2N2964*	18	P	Ge	T146	AØ	VHF,Class C;Po 500mW typ;Eff 40% min;Power Gain 6dB min
95▼	2N2965*	18	P	Ge	T146	AØ	VHF,Class C;Po 500mW typ;Eff 40% min;Power Gain 5dB min
96▼	2N3374*	18	N	Si	TO5	AØ	VHF,Class C;Power Gain 7 5dB min at VCE 28V,Ic 170mA,fo 130MHz,Pac Out2.8W;Eff 53%
97▼	2N5834*	18	P	Si	TO39	A	VHF,Class C;Power Gain 10dB min at VCC 28V,Ic 180mA,fin 175MHz,fout 175MHz,Po 2.5W
98▼#	2SC1251*	18	N-E	Si	T136	S	CATV Wide Band Ampl;Pwr Gain 14dB min,NF 4.0dB max at 200MHz,Vce 15V,Ic 50mA
99▼#	2SC1252*	18	N-E	Si	TO39	A	CATV Wide Band Ampl;Pwr Gain 15dB min,NF 4.0dB max at 200MHz,Vce 15V,Ic 50mA
100▼#	2SC1253*	18	N-E	Si	TO39	A	CATV Wide Band Ampl;Pwr Gain 16dB min,NF 3 5dB typ at 200MHz,Vce 15V,Ic 50mA
101#	2SC1511*	18	N-E	Si	W55b	R	Pout 25W Typ At VCC 18V;f 275MHz;Pin 6.0W;Cob 80pf max
102#	2SC1512*	18	N-E	Si	W55b	R	Pout 37W Typ At VCC 18V,f 275MHz;Pin 10W;Cob 100pf max
103#	2SC2066*	18	N-E	Si	T136	S	Pt 7.0W;PO 32dBm Typ At f 475MHz;VCC 7.0V;Pi 26dBm;Cob 5 5pf max
104#	2SC2091*	18	N-DE	Si	TO126	B	Pc 750mW;PO 1.8W Typ At VCC 12V;f 27MHz;Pi 35mW,Cob 20pf max;Eff 60% min
105#	2SC2092*	18	N-DE	Si	Y220b	B	Pc 12W;PO 5.0W Typ At VCC 12V;f 27MHz;Pi 200mW;Cob 70pf max,Eff 60% min
106	B1-12	18	N-D	Si			VHF;f 175MHz;PO 1.0W;Power Gain 12dB,VDC 12.5V;Eff 70%;Pt 5.0W;DF 28mW/°C
107	B8-12	18	N-D	Si			VHF;f 175MHz;PO 8.0W;Power Gain 10dB;VDC 12.5V;Eff 60%;Pt 25W;DF 142mW/°C
108	B15-12	18	N-D	Si			VHF;f 175MHz;PO 15W;Power Gain 6.0dB;VDC 12.5V;Eff 60%;Pt 30W,DF 142mW/°C
109	B30-12	18	N-D	Si			VHF,f 175MHz;PO 30W;Power Gain 5.5dB,VDC 12.5V;Eff 60%;Pt 65W,DF 555mW/°C
110	B45-12	18	N-D	Si			VHF,f 175MHz,PO 45W;Power Gain 4 5dB,VDC 12.5V;Eff 60%;Pt 90W;DF 526mW/°C

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	MIL-S-19500/
2N43A	none	6B
		AMEND
		1
2N44A	none	6B
		AMEND
		1
2N78A	none	90A
		USAF
2N117	none	2B
2N118	none	2B
2N119	none	2B
2N123	none	30A
		USAF
2N128	SPR	9B
2N158	GPD	24D
	STC	AMEND
		1
2N167A	none	11C
2N174A	none	13B
		AMEND
		2
2N220	none	1A
		AMEND
		1
2N240	SPR	25B
2N297A	GPD	36C
	STC	
2N326	none	40B
2N328A	RTN	110C
	TCY	
2N329A	RTN	110C
	TCY	
2N331	none	4D
2N333	TEC	37D
	TII	
2N333A	TEC	37D
2N335	TEC	37D
	TII	
2N335A	TEC	37D
2N336	TEC	37D
	TII	
2N336A	TEC	37D
2N337	TEC	69E
	TII	
2N338	TEC	69E
	TII	
2N341	TEC	31C
		AMEND
		1
2N342	TEC	16E
2N342A	TEC	16E
2N343	TEC	16E
2N358A	TII	63D
2N384	APX	27E
		AMEND
		2
2N388	TII	65B
2N389	SEN	173A
	STC	
	TII	
2N393	SPR	77C
		AMEND
		1
2N396A	none	64D
2N398A	none	174B
2N404	TII	20C
		AMEND
		1
2N404A	TII	20C
		AMEND
		1
2N416	none	56B
		EL
2N417	none	56B
		EL
2N422	none	66B
		AMEND
		1
		NAVY
2N424	SEN	173A
	STC	
	TII	
2N425	none	41B
		AMEND
		1
		EL
2N426	none	41B
		AMEND
		1
		EL
2N427	TII	41B
		AMEND
		1
		EL
2N428	TII	44D
		AMEND
		1
2N456B	GPD	217B
	STC	
2N457B	GPD	217B
	STC	
2N458B	GPD	217B
	STC	
2N461	none	45A
		AMEND
		2
		USAF
2N463	GPD	70A
		AMEND
		1
		NAVY
2N464	none	49C
		AMEND
		1
2N465	none	49C
		AMEND
		1
		EL
2N466	none	51E
2N467	none	49C
		AMEND
		1
		EL
2N489A	†GESY	75B
	†TII	AMEND
		1
2N490A	†GESY	75B
	†TII	AMEND
		1
2N491A	†GESY	75B
	†TII	AMEND
		1
2N492A	†GESY	75B
	†TII	AMEND
		1
2N493A	†GESY	75B
	†TII	AMEND
		1
2N494A	†GESY	75B
		AMEND
		1
2N497	TEC	74E
	TII	AMEND
		2
2N498	TEC	74E
	TII	AMEND
		2
2N499	SPR	72C
		AMEND
		3
		EL
2N499A	SPR	72C
		AMEND
		2
		EL
2N501A	SPR	62B
		AMEND
		2
2N502A	SPR	112C
		AMEND
		2
2N502B	SPR	112C
		AMEND
		2
2N526	GESY	60E
2N537	none	100A
		AMEND
		1
		SigC
2N539	GPD	38C
	STC	
2N539A	GPD	38C
	STC	
2N545	none	84A
		AMEND
		1
		NAVY
2N559	†none	152C
		AMEND
		3
		EL
2N560	SSI	73B
2N574	none	46B
		EL
2N575	none	46B
		EL
2N575A	none	46B
		EL
2N598	none	197C
		AMEND
		2
		EL
2N599	none	166C
		AMEND
		3
		NAVY
2N600	none	197C
		AMEND
		2
		EL
2N604	none	221B
		USAF
2N650A	none	175C
		AMEND
		1
2N651A	none	175C
		AMEND
		1
2N652A	none	175C
		AMEND
		1
2N656	RTN	74E
	TEC	AMEND
	TII	2
2N665	GPD	58D
	STC	
2N695	none	135A
		NAVY
2N696	FSC	99E
	TEC	AMEND
		1
2N697	FSC	99E
	RTN	AMEND
	TEC	1
2N700A	none	123A
		EL
2N702	NSC	153B
		AMEND
		1
		EL
2N703	MOTA	153B
	NSC	AMEND
		1
		EL
2N705	none	86A
		AMEND
		1
2N706	†none	120C
	FSC	AMEND
	ITT	3
	MOTA	
	RTN	
	TEC	
2N708	†FSC	312B
	†ITT	AMEND
	†MOTA	1
	†TEC	
2N718A	ΔFSC	181C
	ΔITT	AMEND
	ΔMOTA	5
	ΔRTN	
	ΔTEC	
	ΔTII	
2N720A	†FSC	182C
	†RTN	
	†TEC	
2N744	FSC	273A
		NAVY
2N757A	none	218A
2N759A	none	218A
2N760A	†none	218A
	RTN	
2N869A	†FSC	283B
	†MOTA	AMEND
	†TEC	1
2N910	†RTN	274B
		AMEND
		1
		EL
2N911	†RTN	274B
		AMEND
		1
		EL
2N912	†RTN	274B
		AMEND
		1
		EL
2N914	†FSC	373A
	†MOTA	AMEND
	†TEC	1
2N916	FSC	271A
	MOTA	AMEND
	RTN	4
		NAVY
2N918	ΔFSC	301A
	ΔMOTA	Ø
	ΔNSC	AMEND
	ΔRCA	3
	ΔRTN	USAF
	ΔTEC	
	ΔTII	
2N929	†FSC	253B
	†ITT	AMEND
	†MOTA	1
	†NSC	
	†RTN	
	†TEC	
	†TII	
2N930	†FSC	253B
	†ITT	AMEND
	†MOTA	1
	†NSC	
	†RTN	
	†TEC	
	†TII	
2N962	none	258A
		AMEND
		3
2N964	none	258A
		AMEND
		3
2N987	APX	267
		AMEND
		2
		EL
2N1008B	none	196A
		AMEND
		2
		EL
2N1011	DEL	67A
		EL
2N1016B	SEN	102A
	SPC	
2N1016C	SEN	102A
	SPC	
2N1016D	SEN	102A
	SPC	
2N1021A	GPD	217B
	STC	
2N1022A	GPD	217B
	STC	
2N1025	TCY	78C
2N1026	TCY	78C
2N1039	GPD	89D
	STC	
2N1041	GPD	89D
	STC	
2N1042	STC	137C
2N1043	STC	137C
2N1044	STC	137C
2N1045	STC	137C
2N1046	none	88
		AMEND
		2
		NAVY
2N1047A	SEN	176B
	SPC	
	STC	
2N1048A	SEN	176B
	SPC	
	STC	
2N1049A	SEN	176B
	SPC	
	STC	
	TII	
2N1050A	SEN	176B
	SPC	
	STC	
	TII	
2N1051	none	216A
		NAVY
2N1072	none	163
		AMEND
		2
		SigC
2N1094	none	161
		AMEND
		1
2N1118	TCY	138C
2N1119	TCY	139B
		AMEND
		1
2N1120	none	68A
		AMEND
		1
2N1131	FSC	177C
	RTN	AMEND
	TEC	4
	TII	
2N1132	FSC	177C
	MOTA	AMEND
	RTN	4
	TEC	
	TII	
2N1157A	none	46B
		EL
2N1165	GPD	178B
	STC	AMEND
		4
		NAVY
2N1173	none	215
		AMEND
		2
		NAVY
2N1174	none	215
		AMEND
		2
		NAVY
2N1183	GPD	143B
	STC	AMEND
		2
		EL
2N1183A	GPD	143B
	STC	AMEND
		2
		EL
2N1183B	GPD	143B
	STC	AMEND
		2
		EL
2N1184	GPD	143B
	STC	AMEND
		2
		EL
2N1184A	GPD	143B
	STC	AMEND
		2
		EL
2N1184B	GPD	143B
	STC	AMEND
		2
		EL
2N1195	none	71D
		AMEND
		1
2N1197	none	165
		SigC
2N1224	none	189B
2N1225	none	189B
2N1234	TCY	179A
		AMEND
		1
		EL
2N1302	TII	126C
2N1303	TII	126C
2N1304	TII	126C
2N1305	TII	126C
2N1306	TII	126C
2N1307	TII	126C
2N1308	TII	126C
2N1309	TII	126C
2N1310	none	136A
		NAVY
2N1358	none	122C
		AMEND
		1
2N1411	SPR	133A
		AMEND
		2
		EL
2N1412	GPD	76C
	STC	AMEND
		3
		NAVY
2N1412A	GPD	76C
	STC	AMEND
		3
		NAVY
2N1450M	none	222B
		USAF
2N1469	TCY	78C
2N1479	RCA	207C
	SPC	EL
	STC	
2N1480	RCA	207C
	SPC	EL
	STC	
2N1481	RCA	207C
	SPC	EL
	STC	
2N1482	RCA	207C
	SPC	EL
	STC	
2N1483	†RCA	180D
	†SEN	AMEND
	†SPC	1
	†STC	
2N1484	†RCA	180D
	†SEN	AMEND
	†SPC	1
	†STC	
2N1485	†RCA	180D
	†SEN	AMEND
	†SPC	1
	†STC	
2N1486	†RCA	180D
	†SEN	AMEND
	†SPC	1
	†STC	
2N1487	RCA	208B
	SEN	
	SPC	
	STC	
2N1488	RCA	208B
	SEN	
	SPC	
	STC	
2N1489	RCA	208B
	SEN	
	SPC	
	STC	
2N1490	RCA	208B
	SEN	
	SPC	
	STC	
2N1493	RCA	247
		AMEND
		3
		EL
2N1499A	SPR	170A
		EL
2N1500	SPR	125C
2N1553A	GPD	331A
	STC	AMEND
		2
		EL
2N1554A	GPD	331A
	STC	AMEND
		2
		EL
2N1555A	GPD	331A
	STC	AMEND
		2
		EL
2N1556A	GPD	331A
	STC	AMEND
		2
		EL
2N1557A	GPD	330A
	STC	AMEND
		5
		EL
2N1558A	GPD	330A
	STC	AMEND
		5
		EL
2N1559A	GPD	330A
	STC	AMEND
		5
		EL
2N1560A	GPD	330A
	STC	AMEND
		5
		EL
2N1613	ΔFSC	181C
	ΔMOTA	AMEND
	ΔRTN	5
	ΔTEC	
	ΔTII	
2N1646	none	223B
		USAF

† - Qualification included TX Devices

Δ - TX and TXV Devices

Ø - Mil-Std-701 Device

14A. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	MIL-S-19500/
2N3771	†AMC	413
	†RCA	AMEND
	†SOD	3
	†SPC	USAF
2N3772	†AMC	413
	†RCA	Ø
	†SOD	AMEND
	†SPC	3
		USAF
2N3791	ΔMOTA	379B
	ΔTEC	AMEND
	ΔTII	3
2N3792	ΔMOTA	379B
	ΔTEC	Ø
	ΔTII	AMEND
		3
2N3810	ΔMOTA	336A
	ΔNSC	Ø
	ΔRTN	AMEND
	ΔTII	2
2N3811	ΔMOTA	336A
	ΔNSC	Ø
		AMEND
		2
2N3821	†MOTA	375A
	ΔSODI	AMEND
	ΔTII	1
	ΔTSC	USAF
2N3822	†MOTA	375A
	ΔSODI	AMEND
	ΔTII	1
	ΔTSC	USAF
2N3823	†MOTA	375A
	ΔNSC	Ø
	ΔSODI	AMEND
	ΔTII	1
	ΔTSC	USAF
2N3838	Δnone	421
		Ø
		AMEND
		6
2N3846	†TEC	412
		AMEND
		1
		USAF
2N3847	†none	412
		AMEND
		1
		USAF
2N3866	ΔMOTA	398
	ΔRCA	Ø
		AMEND
		4
2N3866A	ΔMOTA	398
	ΔRCA	Ø
		AMEND
		2
2N3867	ΔMOTA	350A
	ΔTEC	AMEND
		2
2N3868	ΔMOTA	350A
	ΔTEC	Ø
		AMEND
		2
2N3902	†DEL	371A
	†MOTA	AMEND
	†SOD	2
	†SPC	
2N3959	†MOTA	399
		AMEND
		1
2N3960	†MOTA	399
		Ø
2N3996	ΔAMC	374
	ΔSOD	AMEND
	ΔTEC	3
	ΔTII	USAF
	ΔUNI	
2N3997	ΔAMC	374
	ΔSOD	AMEND
	ΔTEC	3
	ΔTII	USAF
	ΔUNI	
2N3998	ΔAMC	374
	ΔSOD	AMEND
	ΔTEC	3
	ΔTII	USAF
	ΔUNI	
2N3999	ΔAMC	374
	ΔSOD	Ø
	ΔTEC	AMEND
	ΔTII	3
	ΔUNI	
2N4029	Δnone	512
2N4033	ΔMOTA	512
2N4091	†INL	431
	†NSC	USAF
2N4092	†INL	431
	†NSC	USAF
2N4093	†INL	431
	†NSC	USAF
2N4150	†AMC	394
	†GSE	Ø
	†SOD	AMEND
	†TEC	1
	†UNI	USAF
2N4261	Δnone	511
		USAF
2N4399	ΔMOTA	433A
	ΔTEC	Ø
		AMEND
		3
2N4405	†MOTA	448
	†TEC	AMEND
		4
		USAF
2N4416A	ΔNSC	428
	ΔTII	Ø
		AMEND
		1
		USAF
2N4440	ΔRCA	341B
		Ø
		AMEND
		5
2N4449	ΔMOTA	317D
	ΔTEC	Ø
		AMEND
		3
2N4453	†MOTA	283B
	†TEC	AMEND
		1
2N4854	ΔMOTA	421
		Ø
		AMEND
		6
2N4856	ΔMOTA	385
	ΔNSC	Ø
	ΔSIX	AMEND
	†SODI	1
	ΔTII	USAF
	ΔTSC	
2N4857	ΔMOTA	385
	ΔNSC	AMEND
	ΔSIX	1
	†SODI	USAF
	ΔTII	
	ΔTSC	
2N4858	ΔMOTA	385
	ΔNSC	AMEND
	ΔSIX	1
	†SODI	USAF
	ΔTII	
	ΔTSC	
2N4859	ΔMOTA	385
	ΔNSC	AMEND
	ΔSIX	3
	†SODI	USAF
	ΔTII	
	ΔTSC	
2N4860	ΔMOTA	385
	ΔNSC	AMEND
	ΔSIX	3
	†SODI	USAF
	ΔTII	
	ΔTSC	
2N4861	ΔMOTA	385
	ΔNSC	AMEND
	ΔSIX	3
	†SODI	USAF
	ΔTII	
	ΔTSC	
2N4865	†SOD	380A
	†TEC	AMEND
		4
		EL
2N4930	ΔMOTA	397
	ΔTEC	AMEND
		3
		EL
2N4931	ΔMOTA	397
	ΔTEC	AMEND
		3
		EL
2N4947	Δnone	388
		AMEND
		3
		USAF
2N4948	†MOTA	388
	ΔTII	AMEND
		3
		USAF
2N4949	†MOTA	388
		AMEND
		3
		USAF
2N4957	Δnone	426
		Ø
		AMEND
		4
		USAF
2N5038	†RCA	439
	STC	Ø
		AMEND
		2
		USAF
2N5039	†RCA	439
	STC	Ø
		AMEND
		2
		USAF
2N5071	†none	442
	RCA	Ø
		AMEND
		1
		EL
2N5109	ΔMOTA	453
	†RCA	Ø
		AMEND
		4
		USAF
2N5114	ΔINL	476
	ΔNSC	Ø
	ΔSODI	AMEND
		2
		USAF
2N5115	ΔINL	476
	ΔNSC	AMEND
	ΔSODI	2
		USAF
2N5116	ΔINL	476
	ΔNSC	AMEND
	ΔSODI	2
		USAF
2N5157	†DEL	371A
	†SOD	Ø
	†SPC	AMEND
		2
2N5237	†AMC	394
	†SOD	Ø
	†TEC	AMEND
		1
		USAF
2N5238	†SOD	394
		AMEND
		1
		USAF
2N5241	†DEL	414A
	†SPC	Ø
		AMEND
		2
2N5250	†SOD	380A
	†TEC	Ø
		AMEND
		4
		EL
2N5251	†SOD	380A
		AMEND
		4
		EL
2N5302	†MOTA	456A
	†STC	Ø
	†TEC	AMEND
		2
		USAF
2N5303	†MOTA	456A
	†STC	Ø
	†TEC	AMEND
		2
		USAF
2N5304	none	499
		USAF
2N5415	†RCA	485
	†SOD	USAF
2N5416	†RCA	485
	†SOD	Ø
		USAF
2N5431	†MOTA	425
		AMEND
		1
		USAF
2N5470	Δnone	482
		AMEND
		2
		USAF
2N5545	Δnone	430
		Ø
		AMEND
		1
		USAF
2N5546	Δnone	430
		AMEND
		1
		USAF
2N5547	Δnone	430
		AMEND
		1
		USAF
2N5581	†MOTA	423
		AMEND
		4
		USAF
2N5582	†MOTA	423
		Ø
		AMEND
		4
		USAF
2N5660	ΔUNI	454
		Ø
		AMEND
		2
		USAF
2N5661	ΔUNI	454
		Ø
		AMEND
		2
		USAF
2N5662	ΔUNI	454
		AMEND
		2
		USAF
2N5663	ΔUNI	454
		Ø
		AMEND
		2
		USAF
2N5664	ΔSOD	455
	ΔUNI	Ø
		AMEND
		2
		USAF
2N5665	ΔSOD	455
	ΔUNI	Ø
		AMEND
		2
		USAF
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	ΔUNI	Ø
		AMEND
		2
		USAF
2N5667	ΔSOD	455
	ΔUNI	Ø
		AMEND
		2
		USAF
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		AMEND
		1
		USAF
2N5672	ΔRCA	488
		Ø
		AMEND
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2N5683	ΔMOTA	466
		AMEND
		3
		USAF
2N5684	ΔMOTA	466
		AMEND
		3
		USAF
2N5685	ΔMOTA	464
		Ø
		AMEND
		5
		USAF
2N5686	ΔMOTA	464
		Ø
		AMEND
		5
		USAF
2N5745	ΔMOTA	433A
	ΔTEC	Ø
		AMEND
		3
		USAF
2N5793	ΔMOTA	495
		USAF
2N5794	ΔMOTA	495
		USAF
2N5795	ΔMOTA	496
		USAF
2N5796	ΔMOTA	496
		USAF
2N5838	†RCA	487
		Ø
		AMEND
		1
		USAF
2N5839	†RCA	487
		AMEND
		1
		USAF
2N5840	†RCA	487
		Ø
		AMEND
		1
		USAF
2N5918	none	473
		Ø
		AMEND
		1
		USAF
2N5919A	†none	475
		AMEND
		2
		USAF
2N5926	†PTI	447
		Ø
		AMEND
		2
		EL
2N5927	†PTI	440
		Ø
		AMEND
		4
		EL
2N5957	†none	451
		EL
2N5958	†none	450A
		EL
2N5959	†none	451A
		EL
2N5960	†none	450A
		EL
2N5966	†none	462A
		Ø
		EL
2N5967	†none	459A
		EL
2N5968	†none	462A
		Ø
		EL
2N5969	†none	459A
		Ø
		EL
2N6051	Δnone	501
		USAF
2N6052	Δnone	501
		USAF
2N6058	Δnone	501
		USAF
2N6059	Δnone	501
		USAF
2N6060	†TEC	457A
		Ø
		EL
2N6061	†TEC	458A
		EL
2N6062	†TEC	457A
		Ø
		EL
2N6063	†TEC	458A
		Ø
		EL
2N6104	†none	496
		USAF
2N6105	†none	489
		USAF
2N6211	†RCA	461
		USAF
2N6212	†RCA	461
		USAF
2N6213	†RCA	461
		Ø
		USAF
2N6265	none	479
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2N6266	none	480
		AMEND
		1
		USAF
2N6267	none	481
		AMEND
		1
		USAF
2N6274	none	514
		EL
2N6277	none	514
		EL
2N6306	ΔMOTA	498
	ΔRCA	AMEND
		1
		USAF
2N6308	ΔMOTA	498
	ΔRCA	AMEND
		1
		USAF
2N6338	Δnone	509
		EL
2N6341	Δnone	509
		EL
2N6350	†UNI	472
		Ø
		AMEND
		2
		EL
2N6351	†UNI	472
		Ø
		AMEND
		2
		EL
2N6352	†UNI	472
		Ø
		AMEND
		2
		EL
2N6353	†UNI	472
		Ø
		AMEND
		2
		EL
2N6365	none	471
		AMEND
		1
		EL
2N6365A	none	471
		AMEND
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		EL
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		EL
2N6379	Δnone	515
		EL
2N6383	Δnone	523
		USAF
2N6384	Δnone	523
		USAF
2N6385	Δnone	523
		USAF
2N6437	Δnone	508
		EL
2N6438	Δnone	508
		EL
2N6603	Δnone	522
		EL
2N6604	Δnone	522
		EL
3N35		TII 80E
3N74		†TII 390
		USAF
3N75		†TII 390
		USAF
3N76		†TII 390
		USAF
3N93	none	363
		AMEND
		2
		NAVY
3N108	TII	361
		NAVY

† - Qualification included TX Devices

Δ - TX and TXV Devices

Ø - Mil-Std-701 Device

15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

THE PREFIX LETTERS OF THE OUTLINE DRAWING NUMBERS INDICATE THE FOLLOWING:

- B — MOUNTING TAB
- C — CHIP
- F — MOUNTING FLANGE
- O — OVAL
- R — ROUND
- S — SQUARE
- T — STUD(THREADED)
- TO— JEDEC TYPE
- W — MICROWAVE, STRIPLINE, COAXIAL (NO STUD)
- X — MISCELLANEOUS (Configuration including phototransistor)

Y200/TO200— JEDEC '200' Family & Military Outlines (See explanation under NOTES)

ZA — DRAWING REFERENCE INFORMATION

NOTES:

These outline drawings are intended as a guide for the user. They should not be used for construction purposes without first checking with the appropriate manufacturer.

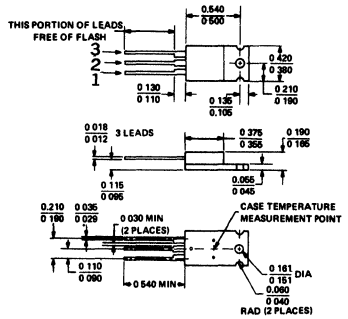
These drawings are referenced in the Technical Sections of this D.A.T.A.BOOK in accordance with information supplied by the manufacturers.

The DO and TO drawings have been reproduced from JEDEC Registration Data Files with the permission of the National Electrical Manufacturer's Association – Electronic Industries Association. JEDEC designations are assigned only to outlines submitted by the JC-11 Committee on Mechanical Standardization. The procedure of assigning and announcing the JEDEC designation constitutes registration.

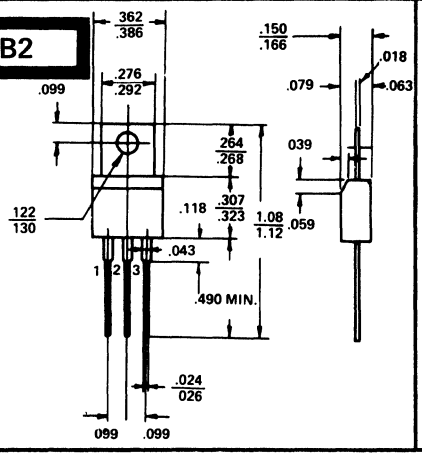
The TO200 Series (TO 200 and higher) are JEDEC-registered outlines, and are referenced in the technical sections with the prefix TO replaced by Y. Suffices such as AA, AB or MA, MB following the TO Series number indicate dimensional variations of the basic outline. For commercial outlines, the suffices start with AA replaced by a; for military outlines, the suffices start with MA replaced by a.

All drawings have circular symmetry unless otherwise indicated.

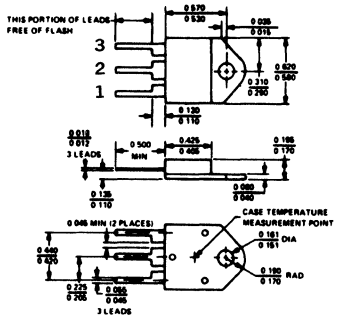
B1



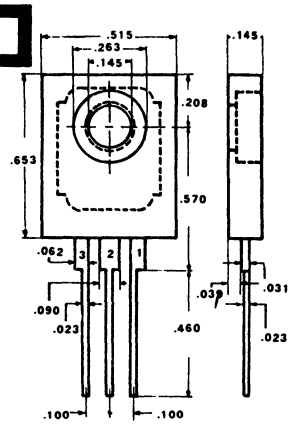
B2



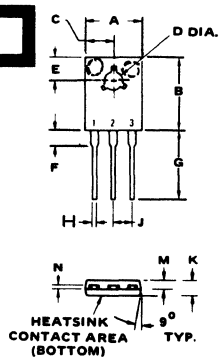
B3



B4



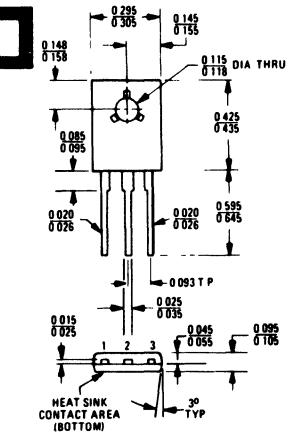
B5



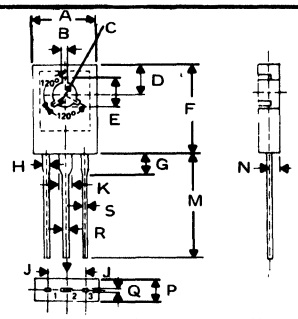
	A	B	C	D	E	F	G	H	J	K	M	N
B5	.495 .505	.635 .645	.245 .255	.138 .148	.185 .195	.105 .115	.595 .645	.043 .049	.166	.125 .135	.075 .085	.032 .034
B5a	.330	.450		.118			.655					
B5b	.520	.658		.148			.630					
B5c	.324 MAX	.442 MAX		.125	.145	.106	.629 MIN	.027	.090	.118 MAX	.066	

DOTTED CIRCLES FOR B5c ONLY.

B6



B7

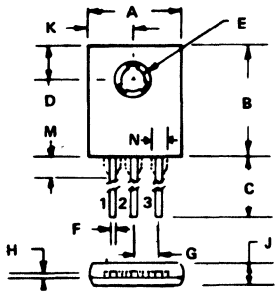


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S
B7	.314 MAX	.027 .035	.114 .118	.141 .150	.145 .150	.472 MAX	.059 MAX	.029	.090	.051	.500 MIN	.047 MAX	.110 MAX	.019	.029	.019
B7a	.334 MAX		.118	.133 .157		.452 MAX	.118 MAX		.090	.043	.594 MIN	.047		.019	.029	
B7b	.314 MAX		.125	.145		.433 MAX	.106 MAX	.039	.090	.062	.629 MAX		.118 MAX		.027	.027

15. OUTLINE DRAWINGS

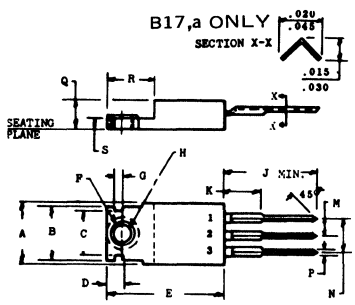
IN DRAWING NUMBER SEQUENCE

B16



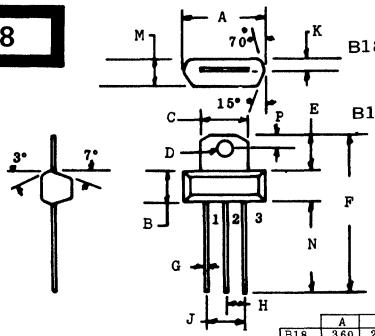
	A	B	C	D	E	F	G	H	J	K	M	N
B16	.270 .330	.390 .460	.595 .655	.148	.115 .118	.023 .035	.090	.017 .023	.070 .130	.150		
B16a	.490 .520	.628 .658	.590 .650	.190 .196	.138 .148	.043 .049	.166 TYP	.030 .034	.120 .150		.125 MAX	
B16b	.330	.450	.655		.118							
B16c	.295 .305	.425 .435	.605 .655	.148 .158	.115 .118	.020 .026	.093	.015 .025	.095 .105	.145 .155	.085 .095	
B16d	.495 .505	.635 .645	.595 .645	.185 .195	.138 .148	.043 .049	.166	.032 .034	.125 .135	.245 .255	.105 .115	
B16e	.270 .330	.390 .450	.595 .655	.260 .275	.115 .118	.025 .035	.080 .100	.015 .025	.070 .130	.150 NOM		
B16f	.294 .305	.425 .435	.594 .644	.085 .094	.114 .118	.020 .025	.092 T.P.	.014 .024	.094 .105	.144 .155	.085 .094	
B16g	.488 .519	.629 .657	.586 .649	.188 .196	.127 .137	.042 .048	.165 TYP	.029 .033	.122 .149	.188 .196	.125 MAX	YES
B16h	.485 .514	.622 .653	5.326 MIN	.177 .207	.145 .147	.024		.032 TYP	.114 .144	.235 .264	.094 .123	.085 .093
B16j	.295 .305	.425 .435	.605 .655	.277	.115 .118	.020 .026	.091 .097	.015 .025	.095 .105	.145 .155	.085 .095	VARIATION
B16k	.480 .530	.618 .668	.595 .655	.180 .225	.125 .155	.041 .051		.027 .037	.120 .150			
B16m	.335 MAX	.472 MAX	.511 MIN	.149	.126	.029	.090	.019	.110			.029
B16n	.315	.394	.552	.098	.078			.015	.118			
B16p	.315	.421	.551	.145	.118	.031	.098	.019	.106			

B17



	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S
B17,a	.395 .410	.365 .385	.300 .320	.100 .120	.575 .600	.141 .145	.040 .060	.115 .121	.500 MIN	.250 MAX	.095 .105	.190 .210	.045 .055	.160 .190	.235 .265	.020 .055
B17b	.380 .420	.365 .385	.300 .320	.140 .160	.560 .620		.090 TYP	.141 .145	.540 MIN	.160 .180	.090 .110	.190 .210	.029 .035	.140 .160		.045 .055

B18

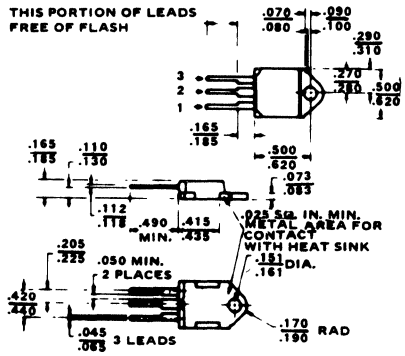


B18c — B18b WITH LEADS FORMED TO TO5 CONFIGURATION.

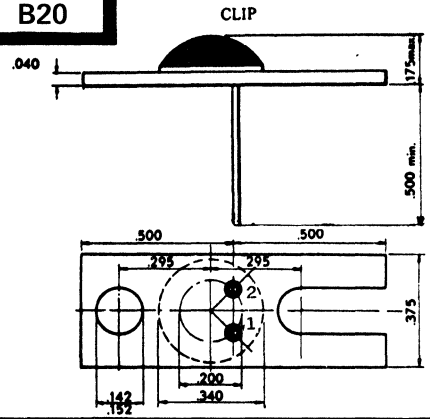
B18d — B18b WITH TAB FORMED FOR FLAT MOUNTING.

	A	B	C	D	E	F	G	H	J	K	M	N	P
B18	.360 .375	.213 .223	.260 .285	.125 .131		.985 1.00	.015 .018	.095 .105	.190 .210	.045 .055	.155 .165	.475 .500	.095 .105
B18a		.213 .223	.260 .285	.125 .131		.985 1.005							.095 .105
B18b	.358 .374	.212 .224	.259 .285	.124 .131	.279 MIN	.984 1.023	.014 NOM	.099 NOM	.199 NOM	.042 .055	.153 .165	.492 MIN	.094 .106

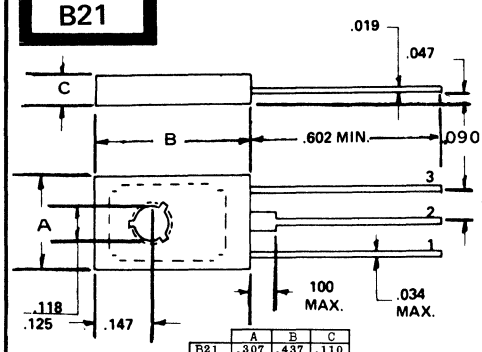
B19



B20



B21

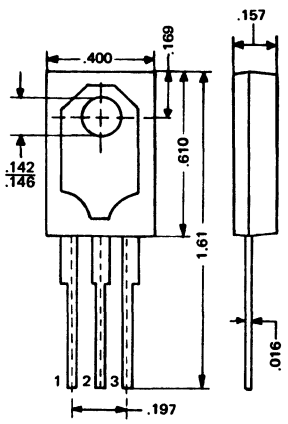


	A	B	C
B21	.307 MAX	.437 MAX	.110 MAX
B21a	.295 .303	.417 .425	.098 .106

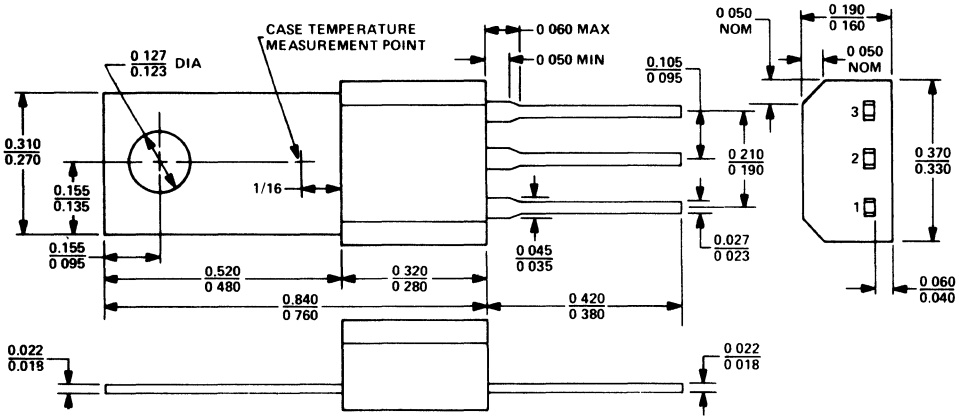
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

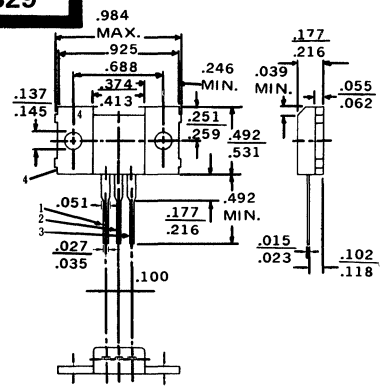
B27



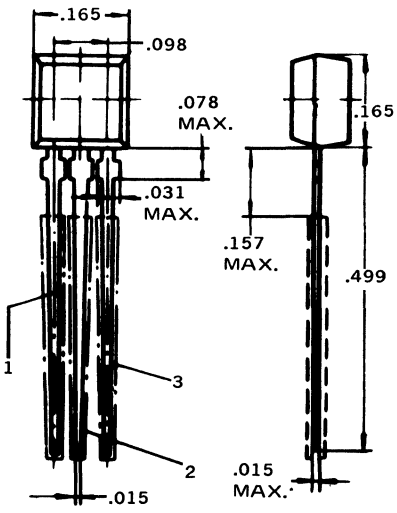
B28



B29



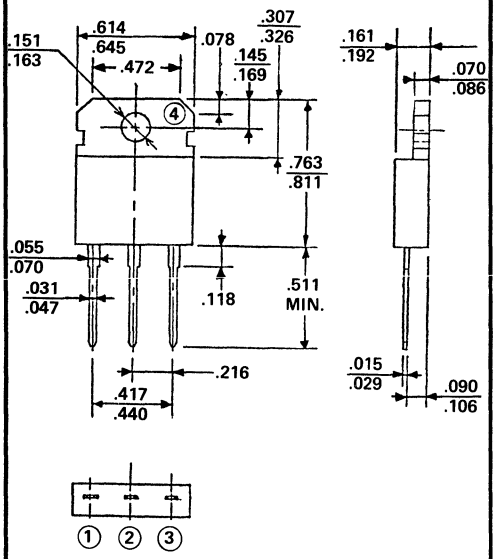
B30



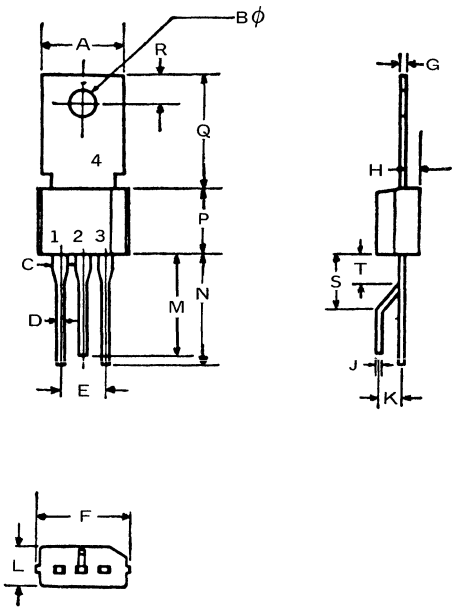
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

B35

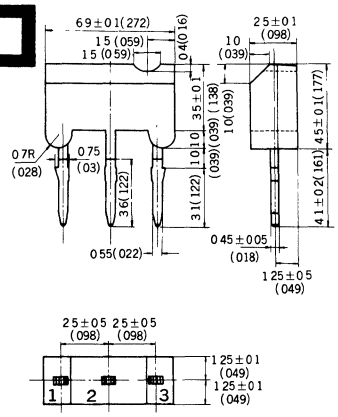


B36



	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
B36	.393 MAX	.118 .134	.043 .059	.024 .047	.193 .209	.400 MAX	.024	.053 .065	.024 .043	.098	.189 MAX	.433 MIN	.492 MIN	.280 .319	.480 .520	.126	.236 MAX	.098 .138

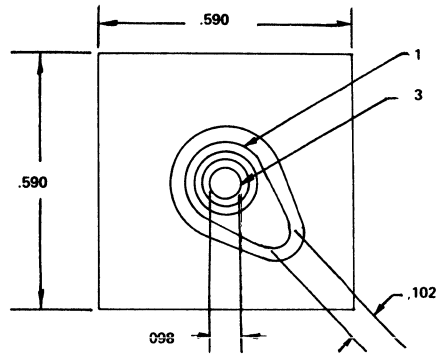
B37



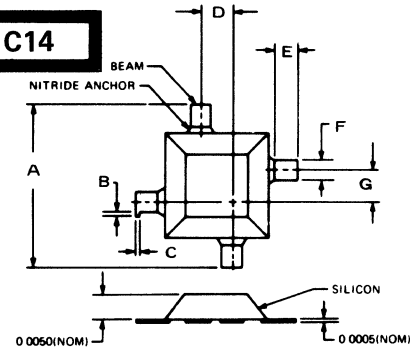
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

C13

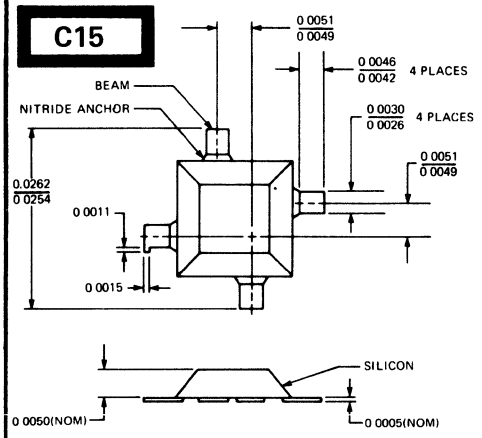


C14

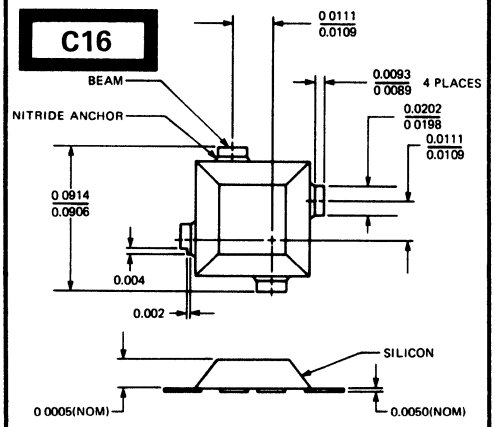


	A	B	C	D	E	F	G
C14	.0306 .0314	.0015	.002	.0059 .0061	.0044 .0048	.0036 .0040	.0059 .0061
C14a	.0254 .0262	.0011	.0015	.0049 .0051	.0042 .0046	.0026 .0030	.0049 .0051

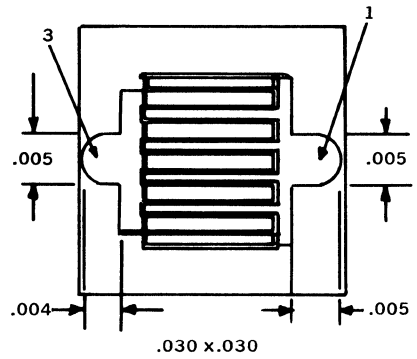
C15



C16

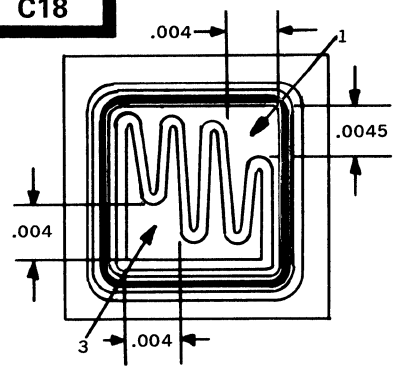


C17



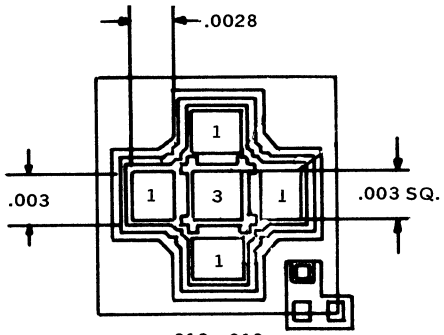
.030 x.030

C18



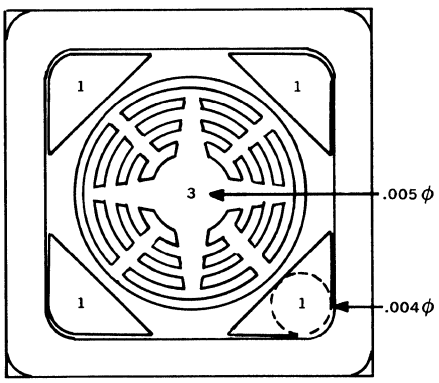
.024x.024

C19



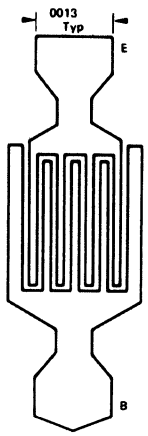
.019x.019

C20

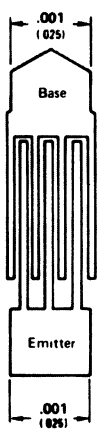


.030x.030

C21



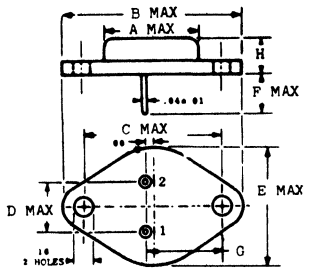
C22



15. OUTLINE DRAWINGS

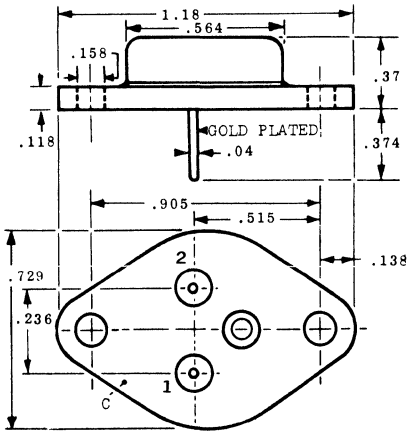
IN DRAWING NUMBER SEQUENCE

F6

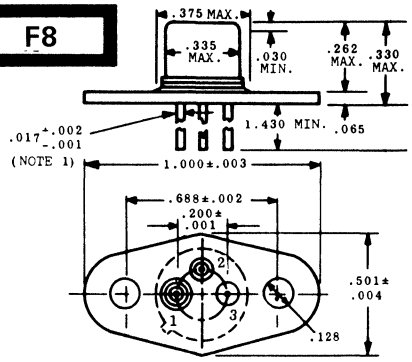


	A	B	C	D	E	F	G	H
F6	.570	1.22	.949	.322	.785	.355		.295
F6a	.590	1.22	.949	.322	.785	.355		.295
F6b	.590	1.30	.949	.322	.785	.355		.295
F6c	.875			.440		.312 .500	.655 .675	.250 .328
F6d	.570	1.27	.953 .967	.193 .207	.708	.393	.571 .585	.314
F6e	.787	1.57	1.195	.436	1.023	.433 MIN	.658 .672	.394
F6f	1.290	2.087	1.702	.760	1.417	.460	.972 .996	.590
F6g	.570	1.22	.897 .913	.228 .244	.728	.354 .393	.507 .523	.255 MAX
F6h	.787	1.53 MAX	1.17 1.18	.425 .440	1.02 MAX	.437 .476	.661 .677	.374 MAX
F6J	.500	1.25	.962	.210	.700	.360	.580	.340

F7

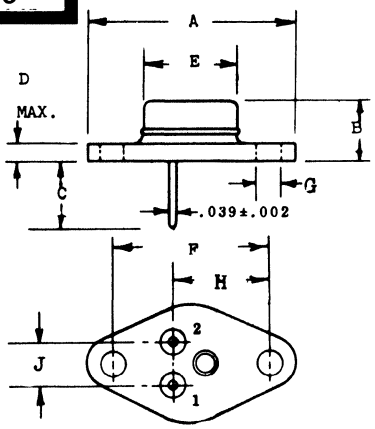


F8



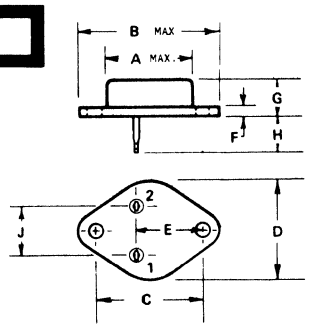
NOTE 1: Lead diameter is controlled in the zone between .050 and .250 from the base seat. Between .250 and end of lead a max. of .021 is held.

F9



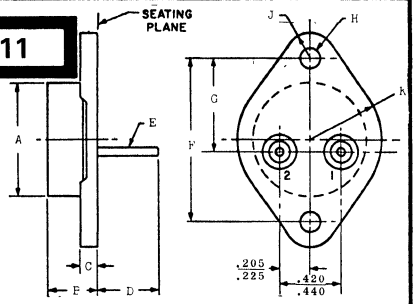
	A	B	C	D	E	F	G	H	J
F9	1.18	.350	.350 MIN	.071	.562	.900 .910	.157 .165	.506 .526	.226 .250
F9a	1.23	.315	.394	.079	.562	.900 .910	.157 .165	.506 .526	.226 .250
F9b	1.23 MAX	.350 MAX	.354 .413	.106	.574 MAX	.897 .913	.157 .165	.506 .526	.226 .250
F9c	1.56	.275 MAX	.400 .500	.150	.900 MAX	1.18 1.20	.157 .165	.506 .526	.226 .250
F9d	1.48 1.54	.283 .345	.472	.078	.790 .800	1.18	1.61	.650 .680	.424 .434

F10



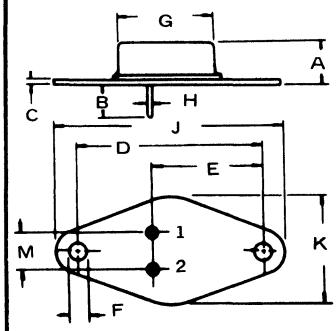
	A	B	C	D	E	F	G	H	J
F10	1.30	2.09	1.69	1.41	.990	.146	.589	.450	.760
F10a	1.22	2.32	1.81	1.54	1.20	.138	.610	.547	.512

F11



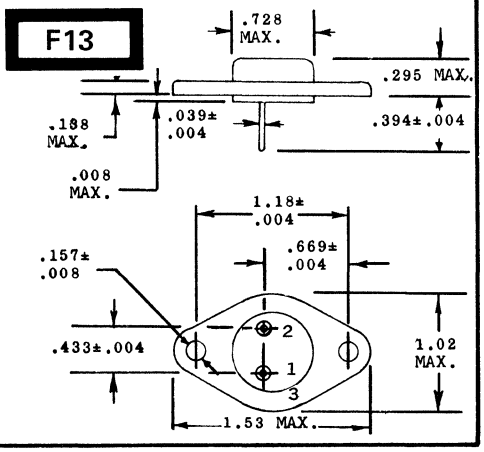
	A	B	C	D	E	F	G	H	J	K
F11	.800 MAX	.300 .350	.114 MAX	.440 .470	.059 .061	1.177 1.197	.655 .675	.151 .161	.188 MAX	.525 MAX
F11a	.830 MAX	.300 MAX	.135 MAX	.440 .480	.039 .043	1.177 1.197	.665 .675	.151 .161		
F11b	.760 .770	.400 .420	.120 .130	.430 .470	.038 .062	1.18 1.19	.658 .672	.151 .161	.168 .178	.495 .505
F11c	.830 MAX	.310 .325	.106 .114	.455 .465	.038 .043	1.184 1.190	.662 .668	.153 .159		

F12

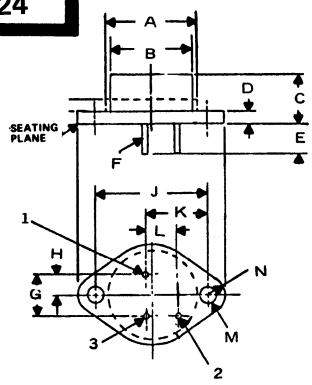


	A	B	C	D	E	F	G	H	J	K	M
F12	.295	.374 .376	.020 MAX	.898 .904	.512 .520	.159 .164	.575 MAX	.035 .043	1.23 MAX	.750 MAX	.232 .240
F12a	.354 MAX	.275 .354	.098 MAX	.937 .952	.521 .541	.153 .165	.590 MAX	.031 .047	1.20	.748 MAX	.305 .324
F12b	.347 MAX	.394	.099 MAX	.961	.579		.591 MAX	.029	1.272 MAX	.717 MAX	.199
F12c	.433 MAX	.441 .480	.047 .071	1.18 1.20	.654 .677	.152 .163	.875 MAX	.038 .043	1.57 MAX	1.05 MAX	.419 .439

F13

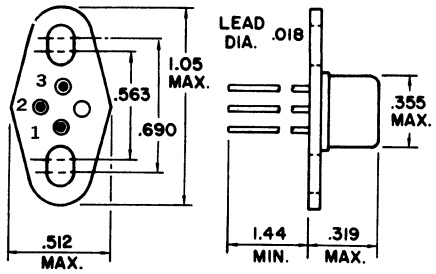


F24

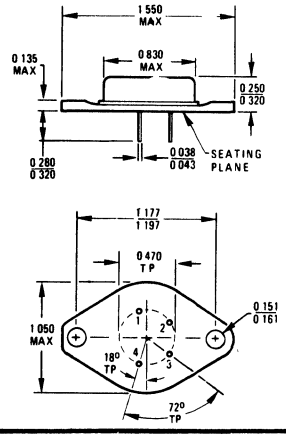


	A	B	C	D	E	F	G	H	J	K	L	M	N
F24	.620	.470	.250	.050	.360	.028	.190	.093	.958	.570	.190	.142	.115
	MAX	.500	.340	.075	.500	.034	.210	.107	.962	.590	.210	.152	.145
F24a	.615	.475	.300	.050	.360	.028	.190	.093	.957	.570	.190	.142	
	MAX	.495	MAX	.075	.420	.034	.210	.107	.963	.590	.210	.152	

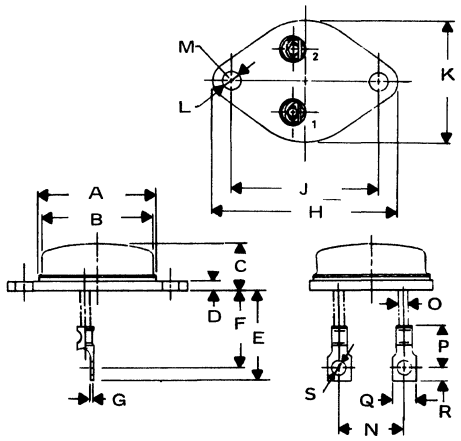
F25



F26

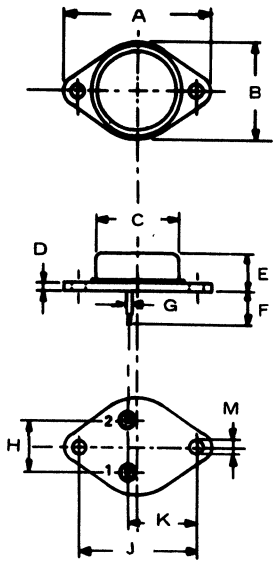


F27



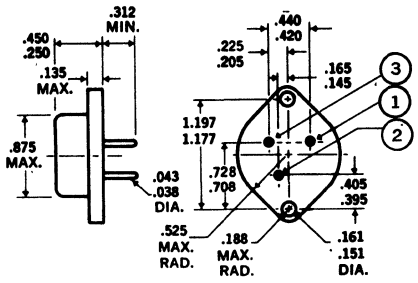
	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S
F27	1.35	1.27	.590	.098	.999	.846	.035	2.08	1.69	1.41	.196	.204	.748	.118	.488	.275	.147	.167
	MAX	MAX	MAX	.114	1.11	.964	.043	2.12	1.72	1.45	.212					.289	.159	.179
F27a	1.45	1.25	.610	.137	.547		.039	2.32	1.79	1.53	.194		.492	.078		.188		.078
	MAX	MAX	MAX	MAX	.555		MAX	MAX	1.83	MAX	.214		.531			MAX		

F29



	A	B	C	D	E	F	G	H	J	K	M
F29	2.08	1.41	1.18	.118	.531	.413	.090	.740	1.68	.984	.200
	MAX	MAX	MAX	MAX	MAX	.492		.755	1.70		.208
F29a	2.086	1.417	1.299	.102	.590	.444	.078	.736	1.681	.972	
	MAX	MAX	MAX	.114	MAX	.460		.759	1.704	.996	

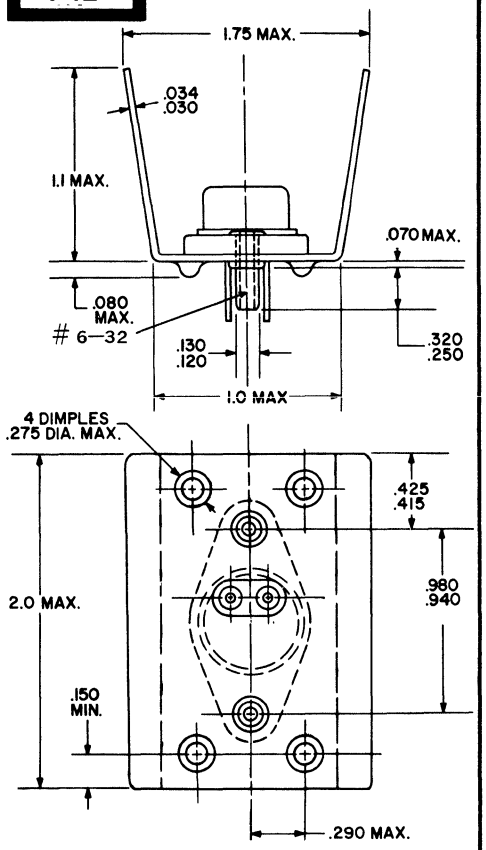
F30



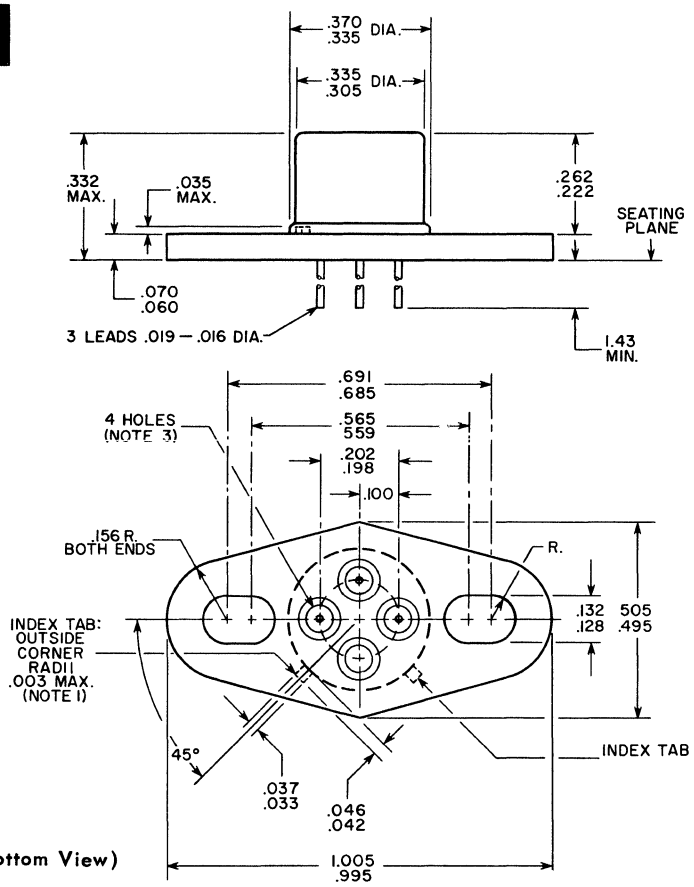
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

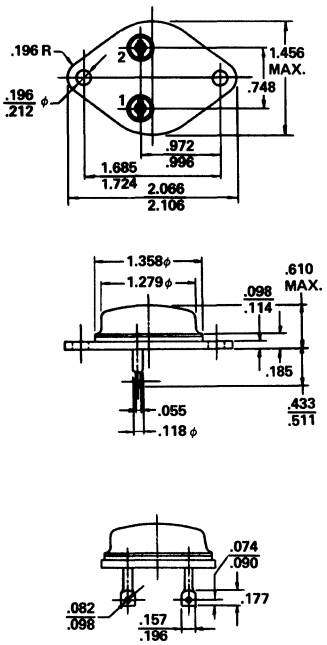
F42



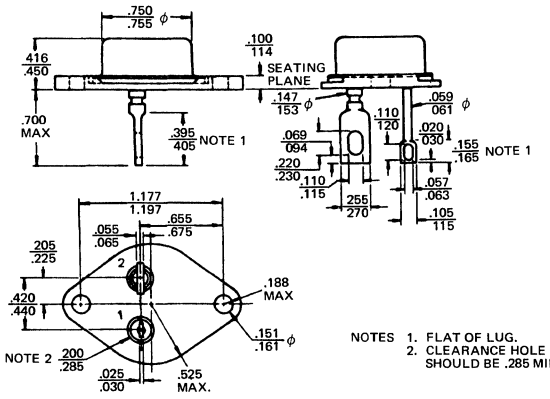
F43



F44



F45

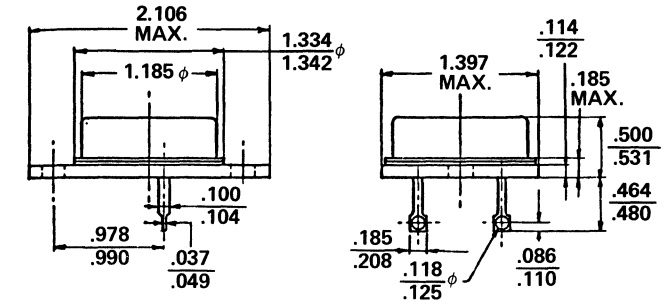


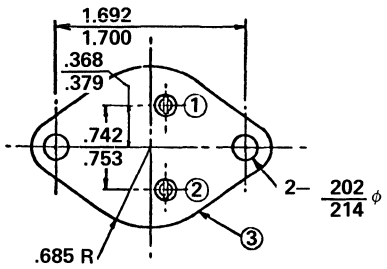
NOTES 1. FLAT OF LUG.
2. CLEARANCE HOLE FOR BOTH LUGS SHOULD BE .285 MIN DIA.

15. OUTLINE DRAWINGS

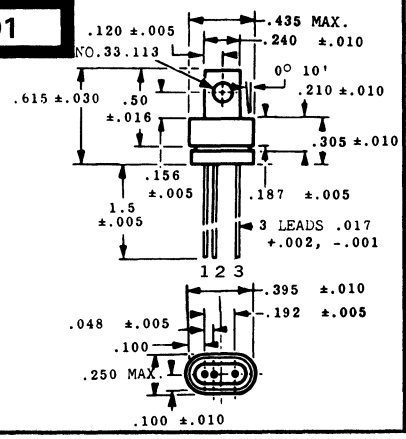
IN DRAWING NUMBER SEQUENCE

F50

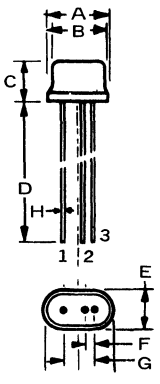




O1



O3

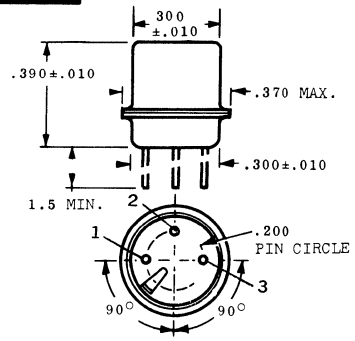


	A	B	C	D	E	F	G	H
O3	.420 MAX	.390 MAX	.310 MAX	1.400 MAX	.150	.045	.230 MAX	
O3a	.420 MAX	.390 MAX	.460 MAX	1.500 MIN	.230 MAX	.080		.016
O3b	.496	.382 MAX	.365 MAX	1.532	.300 MAX	.053	.202 MAX	.016 .019
O3c	.490	.382 MAX	.365 MAX	1.437 MIN	.300 MAX	.058	.202 MAX	.016 .019
O3d	.385 .405	.360 .370	.340 .360	1.437 1.562	.195 .215	.043 .053	.187 .197	.016 .019
O3e	.405 MAX	.370	.315 MAX	1.440 MAX	.215 MAX	.053	.197 MAX	.019 MAX
O3f	.405 MAX	.365	.310 MAX	1.500 MIN	.215 MAX	.058	.202 MAX	.019 MAX
O3g	.405 MAX	.360 .370	.295 .315	1.438 1.562	.215 MAX	.043 .053	.187 .197	.019 MAX
O3h		.325 .365	.455 .495	.185 .200		.048	.137 .151	
O3j		.280 .320	.670 MAX	.185 .200		.048	.137 .151	

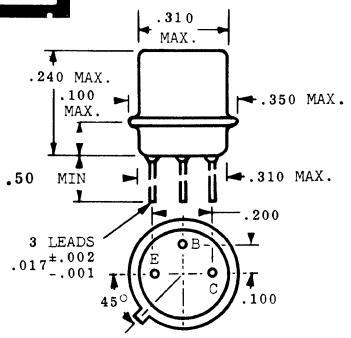
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

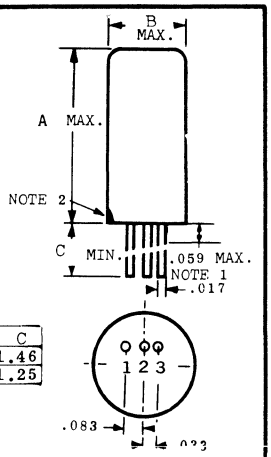
R2



R5



R8

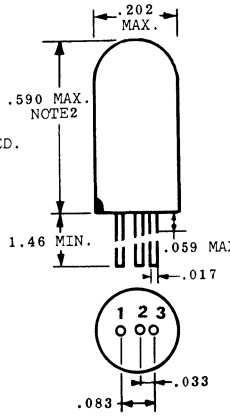


NOTE 1:
THIS ZONE OF THE LEAD IS NOT TINNED

NOTE 2:
THE COLORED DOT INDICATES THE POSITION OF THE COLLECTOR.

	A	B	C
R 8	.619	.236	1.46
R 8a	.375	.250	1.25

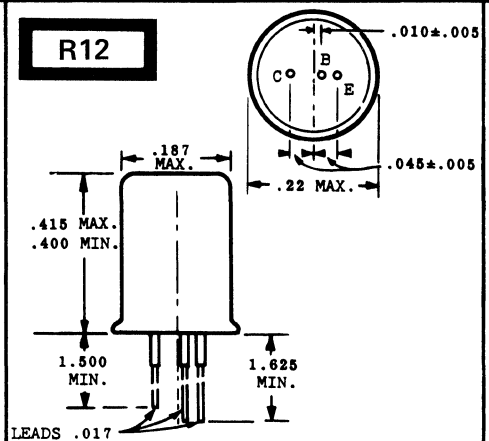
R9



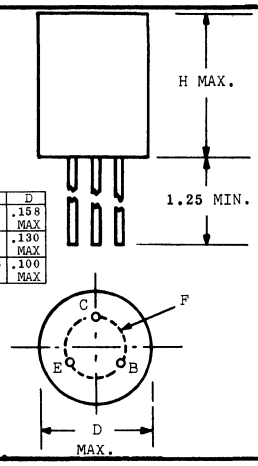
NOTE 1:
THIS ZONE OF THE LEAD IS NOT TINNED.

NOTE 2:
THE COLORED DOT INDICATES THE POSITION OF THE COLLECTOR.

R12

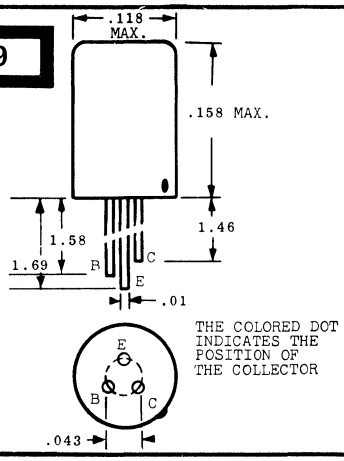


R18



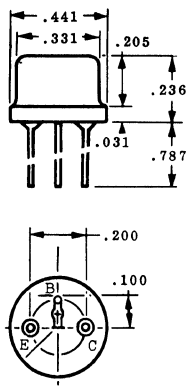
	A	B	C	D
R18	.216 MAX	1.156 MIN	.115	.158 MAX
R18a	.160 MAX	1.250 MIN	.030	.130 MAX
R18b	.130 MAX	1.250 MIN	.038	.100 MAX

R19

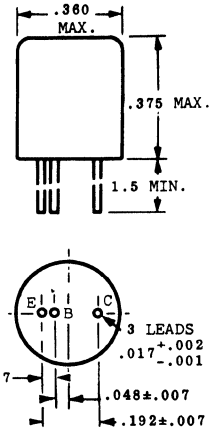


THE COLORED DOT INDICATES THE POSITION OF THE COLLECTOR

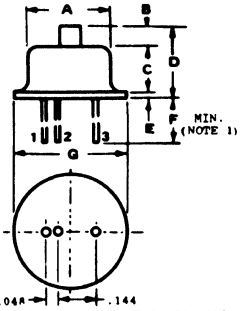
R26



R27



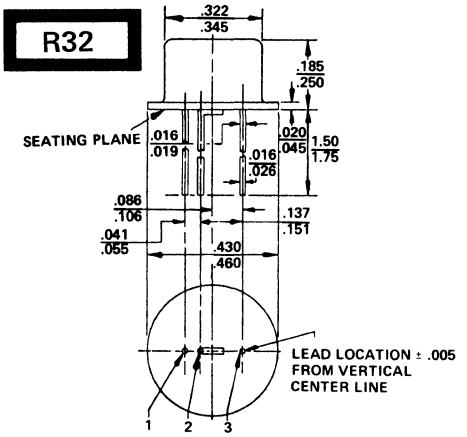
R31



NOTE 1 CUT TO .200 FOR USE IN SOCKETS
LEAD DIAMETER - .017

	A	B	C	D	E	F	G
R31	.328	.125 MAX	.177	.327	.025	1.5 MIN	.460 MAX
R31a	.328	.080 MAX	.177	.282 MAX	.025	1.5 MIN	.440

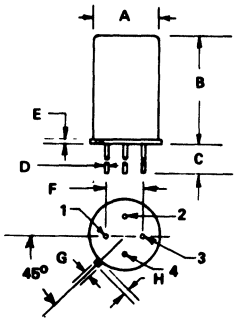
R32



15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

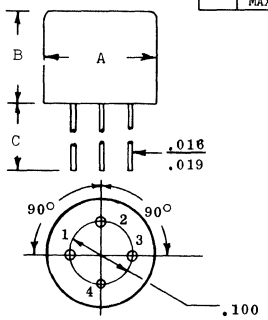
R90



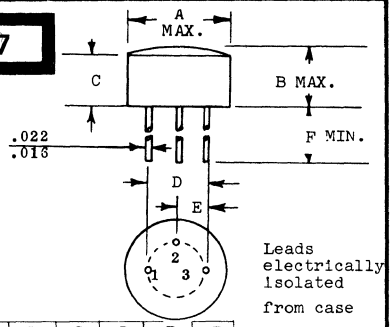
	A	B	C	D	E	F	G	H
R90	.190 MAX	.350 MAX	.500 MIN	.017	.012	.100	.041	.039
R90a	.220 .232	.366 .385	.521	.017 .021	.011 .019	.102	.035 .043	.035 .043
R90b	.334 MAX	.259 MAX	.748 MIN	.018	.015	.196	.031	.039

R92

	A	B	C
R92	.230 .209	.210 .170	.50 MIN.
R92b	.240 MAX	.240 MAX	1.5 MAX.

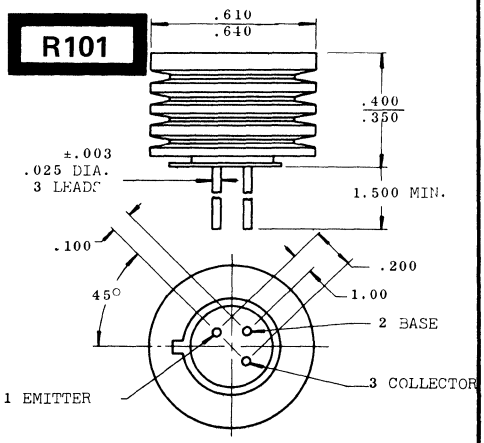


R97



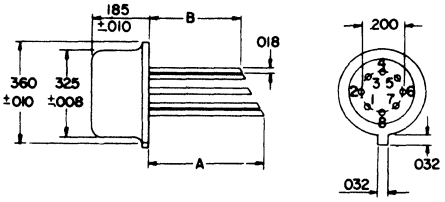
	A	B	C	D	E	F
R97	.330	.250		.200	.100	.400
R97a	.215	.250	.115 .105	.100	.050	.400
R97b	.210	.200		.100	.050	.500
R97c	.215	.200		.100	.050	
R97d	.215	.250		.100	.050	.400
R97e	.320	.220		.200	.100	.400

R101

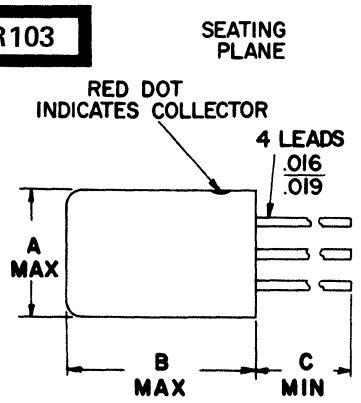


R102

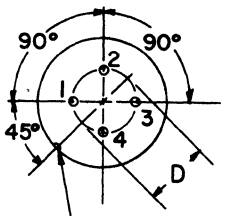
	A	B
102A	60	.25



R103



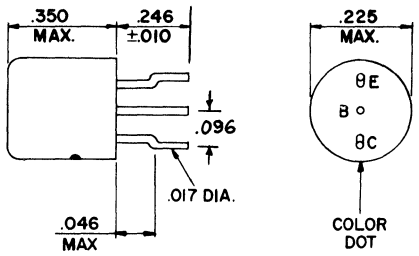
LEAD NO. 4 (SHIELD .177 SHORTER ON R103A ONLY.



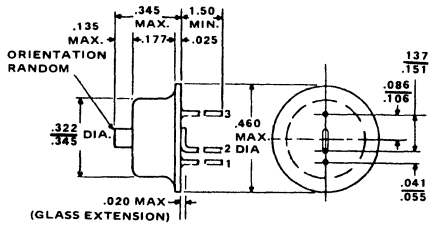
INDENT BETWEEN SHIELD AND EMITTER

	A	B	C	D
R103	.240	.410	1.50	.100
R103a	.236	.236	.699	.100

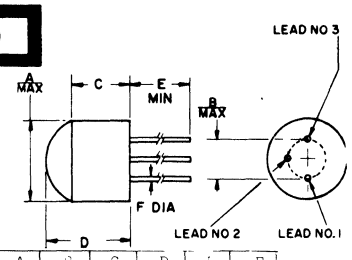
R108



R109

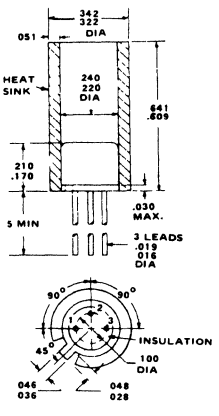


R110

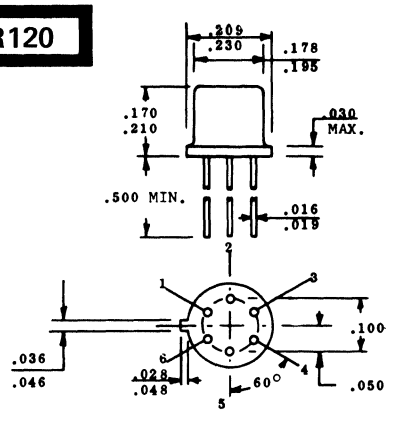


	A	B	C	D	E	F
R110	.210	.100	.100 .120	.140 .250	.400	.016 .022
R110a	.330	.200	.100 .120	.140 .250	.400	.016 .022
R110b	.250	.100		.250	.500	.016 .019
R110c	.210 MAX	.100		.200 MAX	.490 .510	.020 MAX
R110d	.320	.200		.250 MAX	.500 MIN	.020 MAX

R119



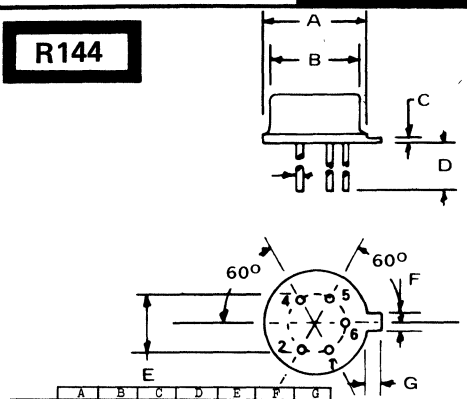
R120



15. OUTLINE DRAWINGS

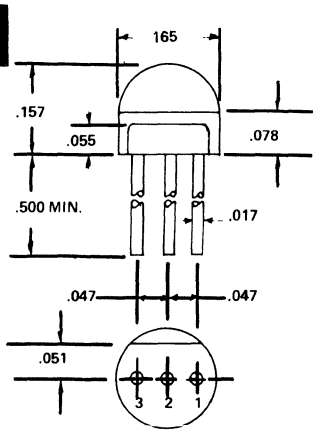
IN DRAWING NUMBER SEQUENCE

R144

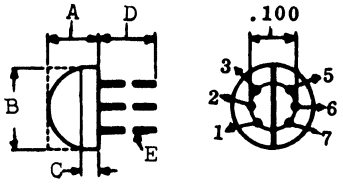


	A	B	C	D	E	F	G
R144	.288 MAX	.195 MAX	.007	.500 MIN	.100	.039	.040
R144a	.229 MAX	.194 MAX	.007	.492 MAX	.099	.037	.041

R145

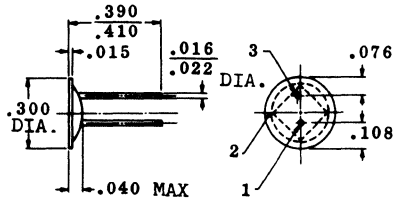


R148

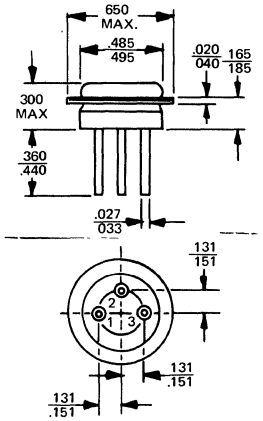


	A	B	C	D	E
R148	.120 .240	.160 .210	.060 MIN	.500 MIN	.016 .021
R148a	.200 MAX	.210		.490 .510	.020 MAX

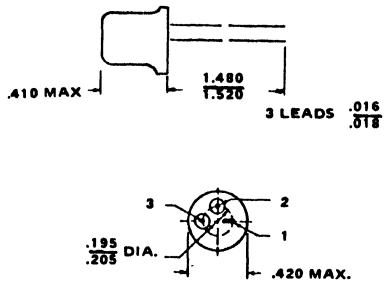
R151



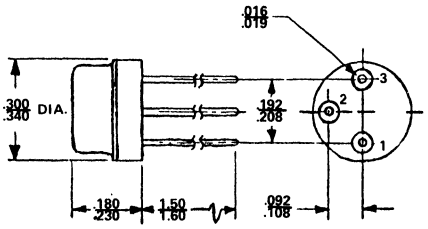
R155



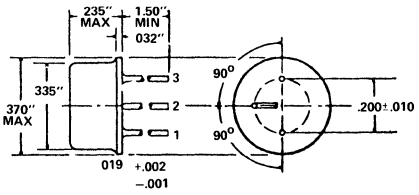
R156



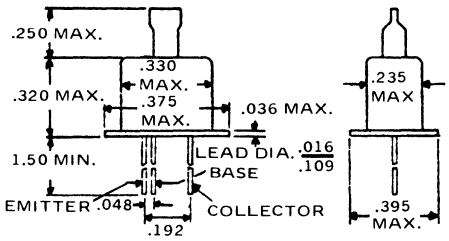
R157



R158



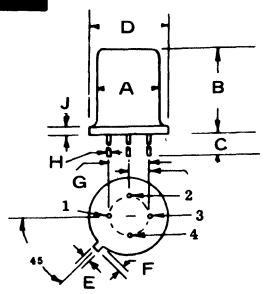
R163



15. OUTLINE DRAWINGS

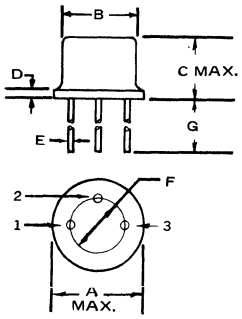
IN DRAWING NUMBER SEQUENCE

R176



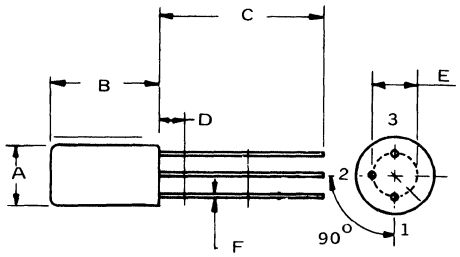
	A	B	C	D	E	F	G	H	J
R176	.195	.210	.500 MIN	.230	.036 .046	.036 .048	.100	.016 .019	.030
R176a	.195	.346	.500 MIN	.230	.036 .046	.036 .048	.100	.016 .019	.030
R176b	.220 .240	.170 .210	.500 MIN		.036 .046	.028 .048	.100	.016 .019	.030" MAX
R176c	.305 .335	.150 .260	.500 MIN	.335 .370	.028 .034	.029 .045	.200 BSC	.016 .021	.009 .125
R176d	.324	.259 MAX	.748	.370 MAX	.031	.029	.200	.017	.027
R176e	.315 .335	.240 .260	.500 MIN	.340 .370	.028 .034	.029 .043		.016 .021	
R176f	.194	.208	.539	.228			.098	.018 MAX	
R176g	.192 MAX	.208	.118	.229			.106	.019 MAX	
R176h	.335 MAX	.260 MAX	.748 MIN	.370 MAX	.031	.031	.200	.016 MIN	.039
R176j	.334 MAX	.259 MAX	.925 MIN	.369 MAX	.031	.031	.200	.016	.039

R177



	A	B	C	D	E	F	G
R177	.209 .230	.178 .195	.170 .210	.009 .125	.016 .019	.100	.500
R177a	.248 .278	.226 .242	.325 .350	.010 .030	.016 .019	.090 .110	1.470 1.530
R177b	.255 .275	.230 .240	.320 .340	.011 .019	.016 .019	.096 .104	1.500 MIN
R177c	.370	.335	.260	.125	.019	.200	1.500
R177d	.370 MAX	.310	.490 MAX	.079	.018	.011 .029	1.50 MIN

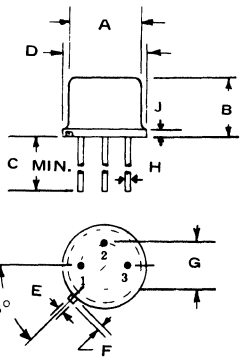
R178



	A	B	C	D	E	F
R178	.175 .195	.285 .410	.500 MIN	.050 MAX	.100	.019 MAX
R178a	.209 .230	.170 .210	.500 MIN		.100	.016 .019
R178b	.236	.610	1.450 MIN		.087	.018
R178c	.240 MAX	.435 MAX	1.450 MIN		.072	.016

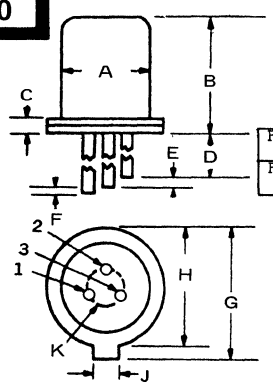
R179

	A	B	C	D	E	F	G	H	J
R179	.175 .195	.285 .410	.500 MIN	.209 .230	.036 .046	.020 .048	.100	.019 .021	.040 MAX
R179a	.175 .196	.100	.500 MIN	.210	.036 .046	.028 .048	.100	.015 .019	.030 MAX
R179b	.181 .193	.065 .085	1.500 MIN	.210 .230	.041	.042	.100		
R179c	.185 MAX	.315 MAX	.710 MAX	.224 MAX	.039	.035	.098	.017	.016
R179d	.220 .240	.170 .210	.500 MIN		.036 .046	.028 .048	.100	.016 .019	.030 MAX
R179e	.275 .335	.200 .260	.500	.335 .370	.028 .034	.029 .045	.200		
R179f	.275 .335	.200 .260	1.500	.290 .370	.028 .034	.029 .045			
R179g	.290 .335	.200 .260	1.500	.290 .370	.028 .033	.029 MIN			
R179h	.305 .335	.090 .120	.500 MIN	.335 .370	.028 .034	.029 .045	.200	.016 .019	.009 .050
R179j	.305 .335	.090 .120	1.500 MIN	.335 .370	.028 .034	.029 .045	.200	.016 .019	.009 .050
R179k	.305 .335	.090 .220	1.500 MIN	.335 .370	.028 .034	.029 .045	.200	.016 .019	.008 .125
R179m	.305 .335	.160 .260	1.500	.335 .370	.028 .034	.029 .045	.200		
R179n	.305 .335	.160 .160	.500	.335 .370	.028 .034	.029 .045	.200		
R179p	.305 .335	.240 .260	.300 MIN	.335 .370	.028 .034	.029 .045	.200	.016 .019	.009 .125
R179q	.305 .335	.240 .260	1.500	.335 .370	.028 .034	.029 .045	.200		
R179r	.305 .335	.240 .260	1.500	.335 .370	.028 .034	.029 .045	.200	.016 .019	.009 .125
R179s	.305 .335	.240 .260	1.500 1.750	.340 .370	.028 .034	.035	.200		
R179t	.305 .335	.240 .260	1.500 1.750	.335 .370	.028 .034	.029 .045	.141		
R179u	.305 .335	.240 .270	1.500	.335 .370	.028 .034	.029 .045	.200		
R179w	.316 .335	.240 .270	1.500 MIN	.340 .360	.026 .036	.041 MAX	.198 .205	.021 .026	
R179x	.330	.259	1.000	.335 .370	.028 .034	.029 .045	.200		
R179y	.334 MAX	.133 MAX	.500 MIN	.370 MAX	.034 MAX	.039 MAX	.200 MAX		
R179z	.181 .187	.192 .204	.527 MIN	.196 .216			.100	.017	
R179aa	.178 .198	.208 MAX	.500 MIN	.208 MAX	.036 .046	.028 .048	.100	.015 .019	.030 MAX



NOTE: R179t = LOCATOR TAB IS OPTIONAL

R180

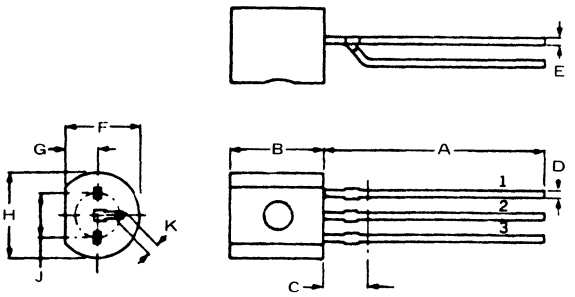


	A	B	C	D	E	F	G	H	J	K
R180	.100 MAX	.130	.015 MAX	1.25 MIN	.094 .156	.094 .156	.145 MAX	.130 MAX	.025 MAX	.038
R180a	.095 .100	.155 .160	.015 MAX	1.50x3 1.75	0.0	0.0	.140 .145	.125 .130	.025 MAX	.035 .041

15. OUTLINE DRAWINGS

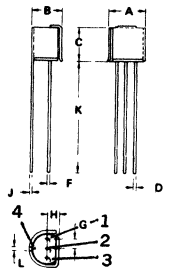
IN DRAWING NUMBER SEQUENCE

R189



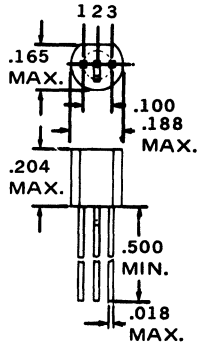
	A	B	C	D	E	F	G	H	J	K
R189	.500 MIN	.204 MAX	.098 MAX	.019 MAX	.011 MIN	.165 MAX	.062	.188 MAX	.100	.023 MAX
R189a	.500 MIN	.204 MAX	.098 MAX	.019 MAX	.014 MIN	.165 MAX	.062	.188 MAX	.100	.025 MAX
R189b	.551 MIN	.217 MAX	.098 MAX		.020	.165 MAX		.205 MAX	.100	

R190

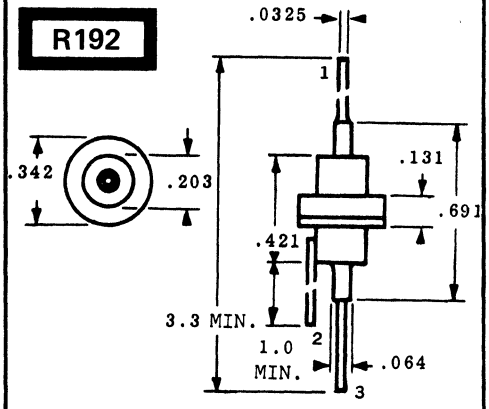


DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	5 03	5 18	0 198	0 204
B	4 01	4 27	0 158	0 168
C	4 44	4 70	0 175	0 185
D	0 41	0 48	0 016	0 019
F	0 25	0 38	0 010	0 015
G	1 14	1 40	0 045	0 055
H	1 40	1 65	0 055	0 065
J	0 23	0 28	0 009	0 011
K	12 70	–	0 500	–
L	0 33	0 38	0 013	0 015

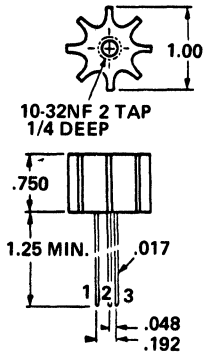
R191



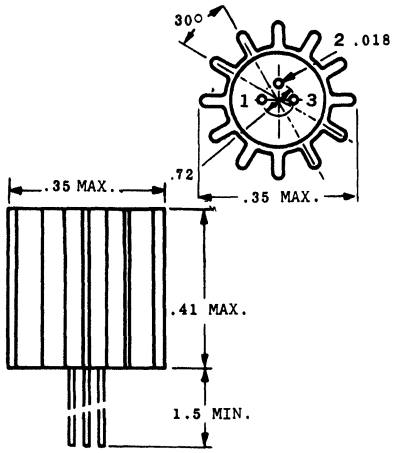
R192



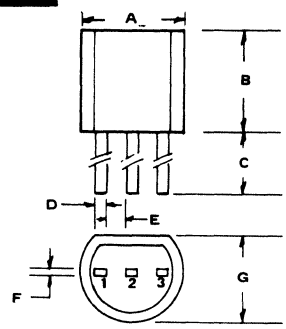
R193



R194

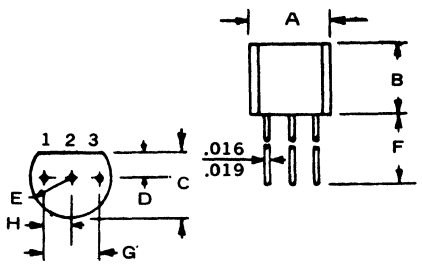


R195



	A	B	C	D	E	F	G
R195	.070 MAX	.070 MAX	.590 MAX	.010	.003 MIN	.059 MAX	
R195a	.196	.228	.500	.021	.100	.019	.157
R195b	.236	.330 .340	.490 MIN	.017 .023	.059	.016 .017	.200
R195c	.204 MAX	.334 MAX	.397 MIN	.019 MAX	.030		.165 MAX
R195d	.192 MAX	.196 MAX	.393 MIN	.019	.049	.015	.149 MAX
R195e	.070 MAX	.070 MAX	.590 MAX	.010	.003 MIN	.020	
R195f	.196	.228	.500	.021	.030	.019	.157
R195g	.070 MAX	.070 MAX	.472 MIN	.011		.009 MAX	.059 MAX

R196

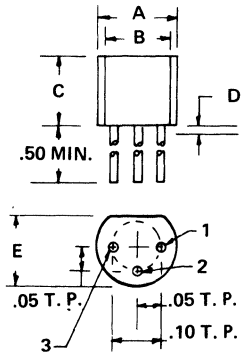


	A	B	C	D	E	F	G	H
R196	.200	.180 .210	.160	.095 .105	.095 .105	.500 MIN	.095 .105	.045 .055
R196a, b	.200	.180 .210	.160	.055 .065	.095 .105	.500 MIN	.095 .105	.045 .055
R196d		.175 .185		.045 .055	.085 .095	.500 MIN	.095 .105	.045 .055
R196e	.221	.241	.170	.060		.500 MIN	.095 .105	.045 .055
R196f	.175 .205	.170 .210	.125 .165		.080 .105	.450 MIN	.095 .105	.045 .055
R196g	.175 .205	.170 .210	.125 .165	.045 .055	.080 .115	.500 MIN	.095 .105	.045 .055
R196h	.204	.204	.161	.059		.531	.098	

15. OUTLINE DRAWINGS

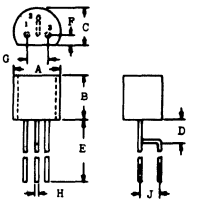
IN DRAWING NUMBER SEQUENCE

R203



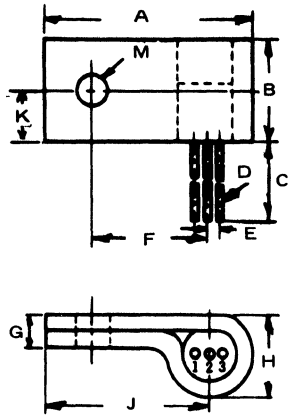
	A	B	C	D	E
R203	.195 .205	.150 .170	.180 .190	.015	.155 .165
R203a	.175 .205	.135 .170	.170 .210	.050 MAX	.125 .165
R203b	.205 MAX		.205 MAX	.079	.165 MAX
R203c	.200	.150 .165	.177 .188	.062	.149 .169
R203d	.200	.156 .166	.179 .190	.062	.151 .190
R203e	.175 .205	.135 MIN	.170 .210	.050	.125 .165

R204



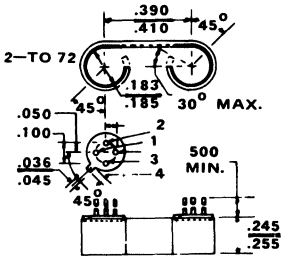
	A	B	C	D	E	F	G	H	J
R204	.197	.197	.157	.087	.492	.059	.098	.020	.048
R204a	.175 .205	.170 .210	.125 .165	.050	.500		.095 .105	.016 .019	.050
R204b	.174 .188	.178 .181	.134 .148	.098 MAX	.492 .570		.093 .103	.017	
R204c	.196 .212	.196 .212	.157 .173	.098 MAX	.547 .562			.015	
R204d	.188 MAX	.204 MAX	.165 MAX		.500 MIN		.100	.017	
R204e	.175 .204	.170 .209	.125 .164	.118 MAX	.499 MIN	.044 .055	.094 .105	.016 .021	.049 TYP

R205

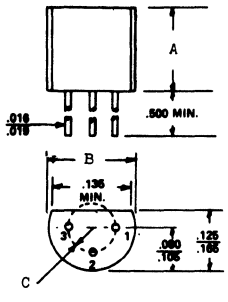


	A	B	C	D	E	F	G	H	J	K	M
R205	.728 MAX	.374 MAX	.787 MIN	.018	.050	.394	.126 MAX	.295 MAX	.551		.118
R205a	.748 MAX	.393 MAX	.551 MIN	.019	.049	.393	.149 MAX	.307 MAX		.177	.129 .145

R206

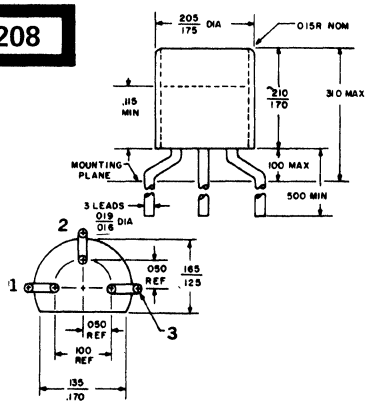


R207

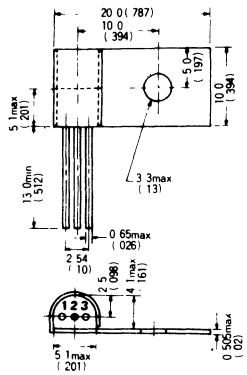


	A	B	C
R207	.170 .210	.175 .205	.090 .110
R207a	.160 .210	.165 .205	.095 .105
R207b	.160 .210	.165 .205	.045 .050

R208

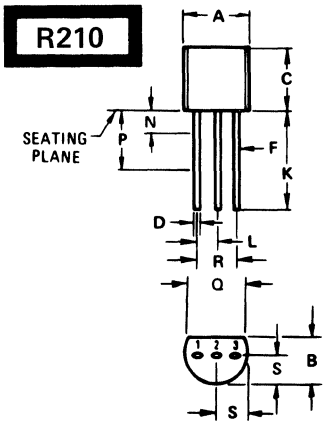


R209



Unit : mm (inch)

R210

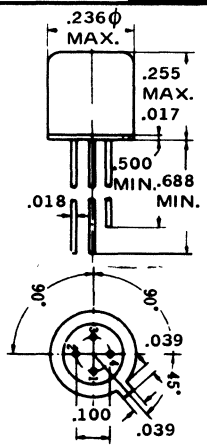


	A	B	C	D	F	K	L	N	P	Q	R	S
R210	.175 .205	.125 .165	.175 .185		.018 .019	.593	.045 .055				.095 .105	.080 .105
R210a	.175 .205	.125 .165	.170 .210	.016 .021	.016 .019	.500 MIN	.045 .055	.050 MAX	.250 MIN	.135 MIN	.095 .105	.080 .105
R210b	.175 .205	.125 .165	.175 .185	.016 .021	.016 .019	.500 MIN	.045 .055				.088 .105	.080 .110

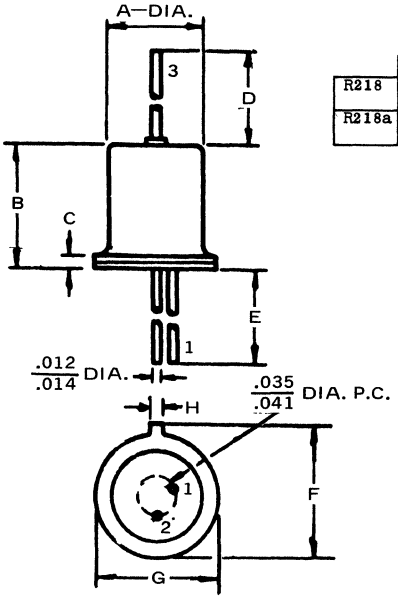
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

R217

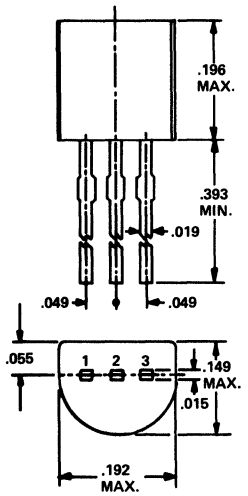


R218

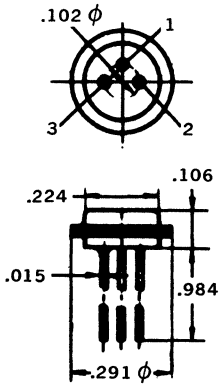


	A	B	C	D	E	F	G	H
R218	.100 MAX	.160 MAX	.015 MAX	1.500 MIN	1.500 MIN	.145 MAX	.130 MAX	.025 MAX
R218a	.095 .100	.155 .160	.015 MAX	1.719 1.781	1.250 MIN	.140 .145	.125 .130	.020 .025

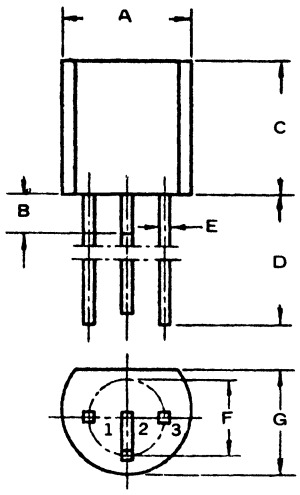
R219



R220

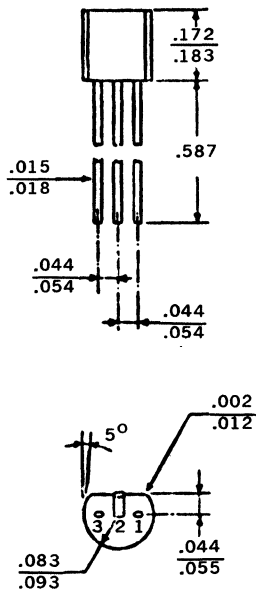


R221



	A	B	C	D	E	F	G
R221	.205 MAX	.098 MAX	.217 MAX	.551 MIN	.020	.100	.165 MAX
R221a	.188 MAX		.204 MAX	.499 MIN	.018		.165 MAX

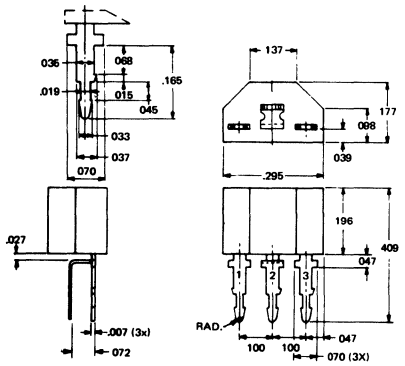
R222



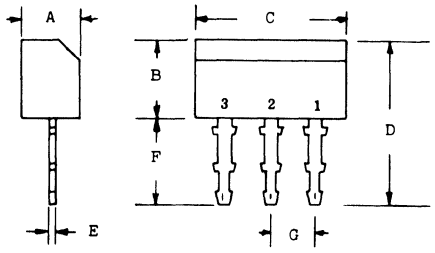
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

S1

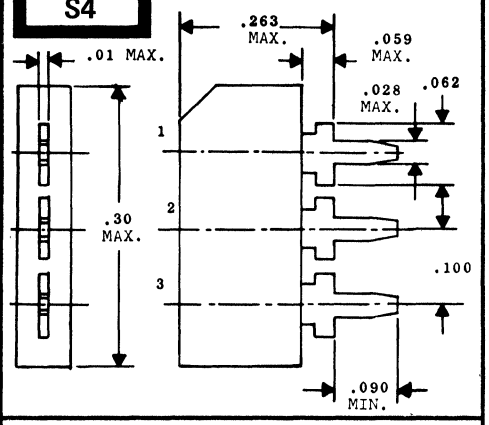


S3

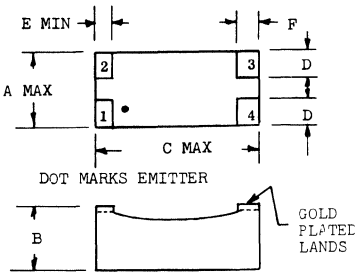


	A	B	C	D	E	F	G
S3	.137	.236	.216		.018	.492	.050

S4

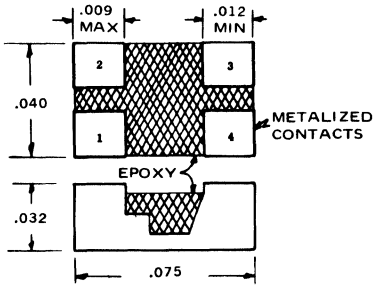


S5



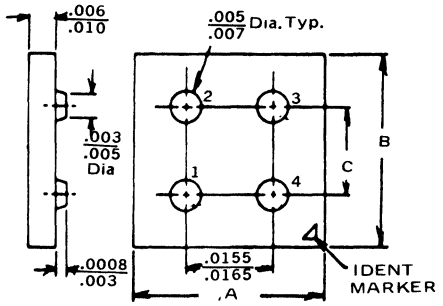
	A	B	C	D	E	F
S5	.042	.033	.078	.015	.009	.012
S5a	.084	.057	.114	.031	.0135	.0135

S6

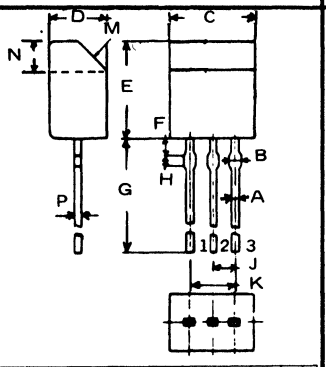


S7

	A	B	C
S7	.032	.032	.015
	.038	.038	.016
S7a	.027	.027	.012
	.033	.033	.013

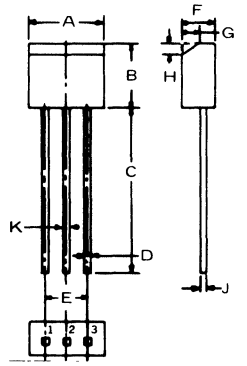


S8



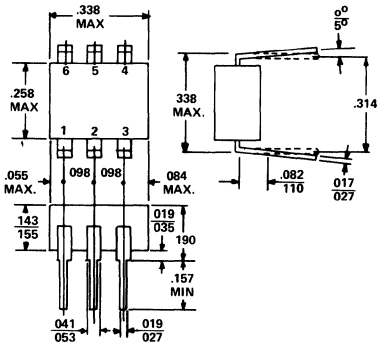
	A	B	C	D	E	F	G	H	J	K	M	N	P
S8	.017	.021	.216	.137	.236	.031	.500	.019	.050	.100	.068		
	MAX	MAX	MAX	MAX	MAX	.047	MIN	.035			MAX		
S8a	.021	.021	.216	.137	.236	.031	.500	.019	.050	.100	.068		
	MAX	MAX	MAX	MAX	MAX	.047	MIN	.035			MAX		
S8b	.020	.023	.173	.070	.149	.059	.374	.031		.100		.028	.027
	MAX	MAX	.181	.086	.165	.082	.452	.047					.035

S9

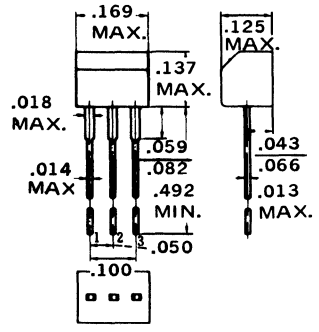


	A	B	C	D	E	F	G	H	J	K
S9	.189	.189	.354	.025	.100	.091	.039	.028	.025	
	MAX	MAX	MAX	MAX		MAX			MAX	
S9a	.275	.354	.472	.019	.133	.157	.047	.078	.017	.027
	MAX	MAX	MIN	.027		MAX			.025	.035

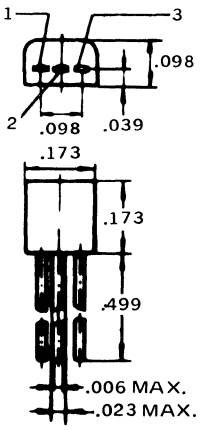
S10



S13



S14

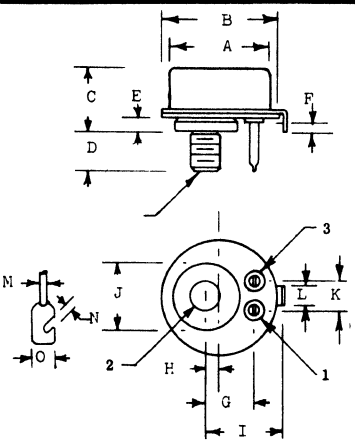


15. OUTLINE DRAWINGS

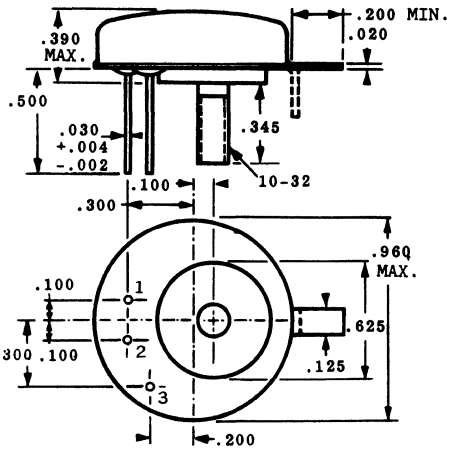
IN DRAWING NUMBER SEQUENCE

T1

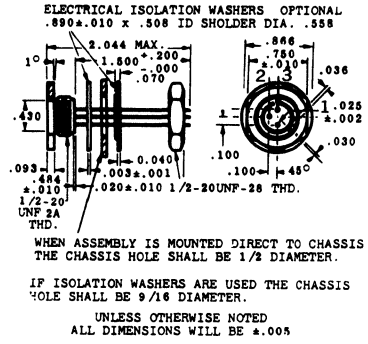
	T1	T1b
A	1.046	1.130 MAX.
B	1.281	1.280-1.240
C	.546 MAX.	.560 MAX.
D	.562	.580-.550
E	.125	.140 MAX.
F	.020	.190-.130
G	.500	.520-.480
H	.156	.170-.140
I	.828	.850-.810
J	.750	.770-.730
K	.375	.360-.400
L	.156	.170-.140
M	.060±.005	.055-.083
N	.055 hole	.055-.075
O		.110-.166



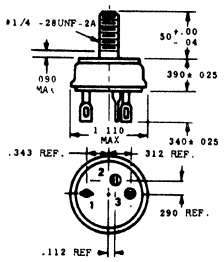
T4



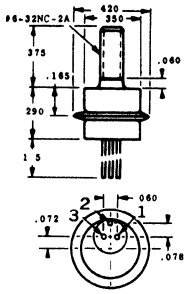
T6



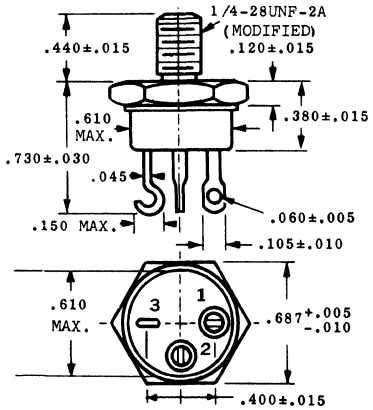
T7



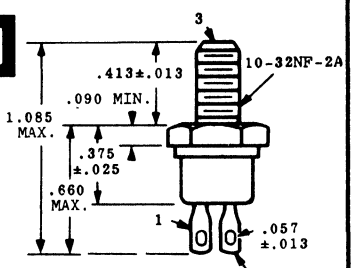
T9



T10



T11

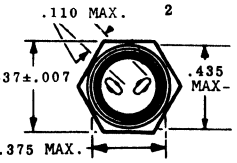


NOTES:

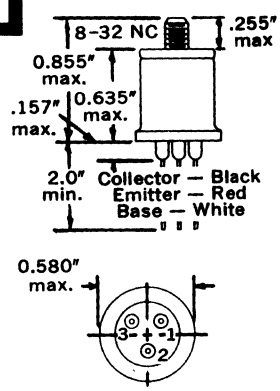
1 DO NOT APPLY MORE THAN 15 LB.-IN. OF TORQUE TO HEX. OR TO NUT.

2 BOTTOM EDGE OF HEX. (LOWER SIDE) WILL BE CHAMFERED AS SHOWN.

3 COMPLETE THREADS TO EXTEND TO WITHIN 2 1/2 THREADS OF HEX.



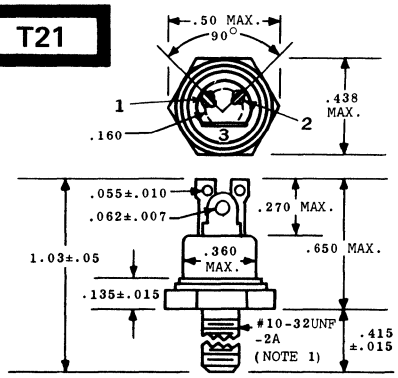
T12



15. OUTLINE DRAWINGS

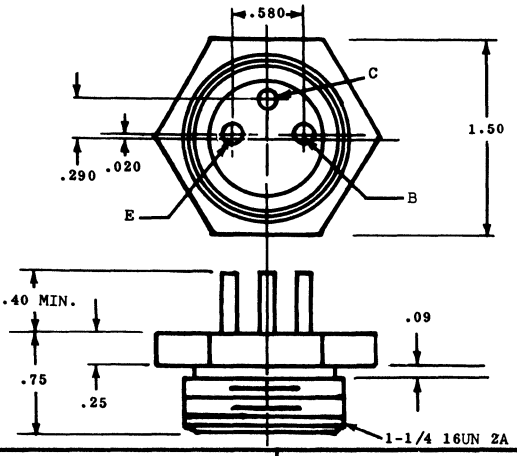
IN DRAWING NUMBER SEQUENCE

T21

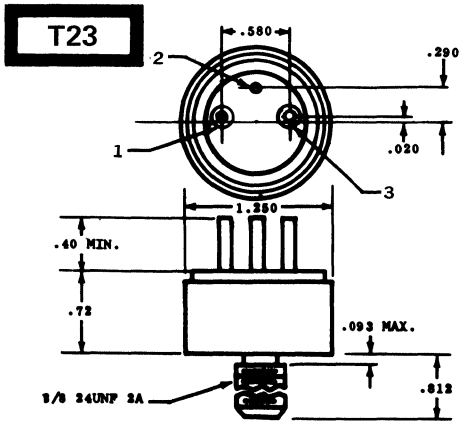


1. Complete threads entend to within 2 1/2 threads of seating plane.

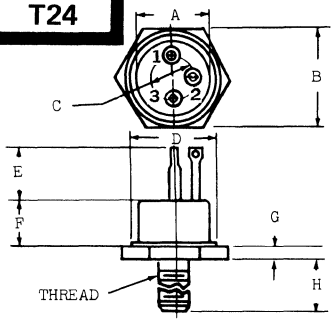
T22



T23

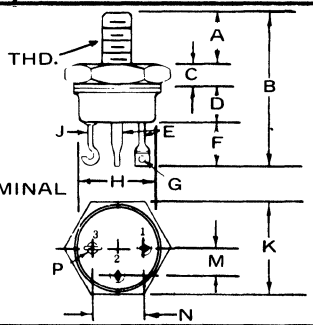


T24



	A	B	C	D	E	F	G	H	THREAD
T24	.420	.562	.250	.536	.312	.280	.115	.437	10-32UNF2A
T24a	.326	.433			.149	.149	.129	.440	M5

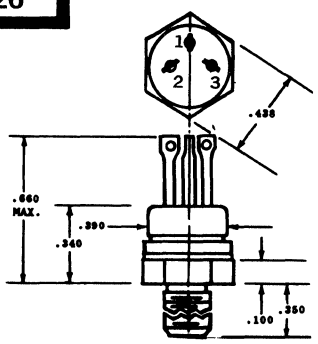
T25



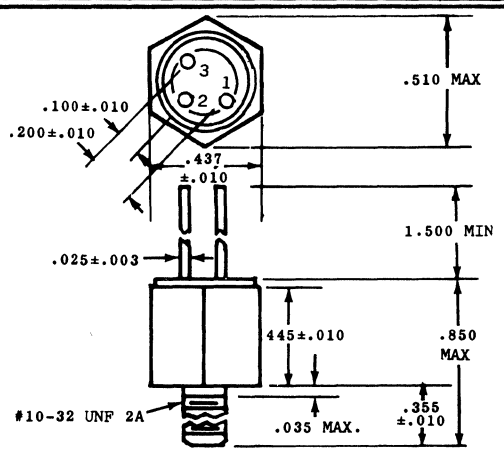
NOTE: T25c LEAD 3 HOOK TYPE TERMINAL OPTIONAL.

	A	B	C	D	E	F	G	H	J	K	M	N	P	THD
T25	.400 .456	1.04 1.06	.090 .156	.232 .314	.051	.250 .294	.052	.323 .375	.040	.424 .436	.100	.195 .205	.092	10-32NF-2B
T25a	.400 .456	1.04 1.06	.090 .156	.232 .314	.051	.250 .294	.052	.323 .375	.040	.424 .436	.100	.195 .205	.092	10-32UNF-2A
T25b	.400 .456	.970 1.21	.250 MAX.	.218 MAX.		.250 .295	.040 .065	.318 .380		.423 .436	.090 .110	.185 .215	.040 .070	10-32UNF-2A
T25c	.407 .437	1.207 1.237	.105 .125	.265 .305		.370 .410	.040 .060			.552 .567	.207 .215	.415 .430		10-32NF-2A

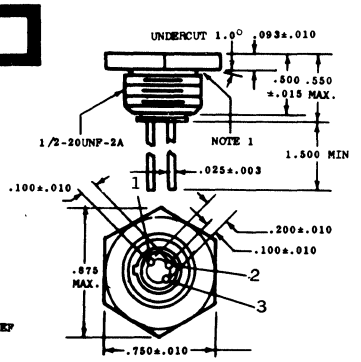
T26



T27



T28

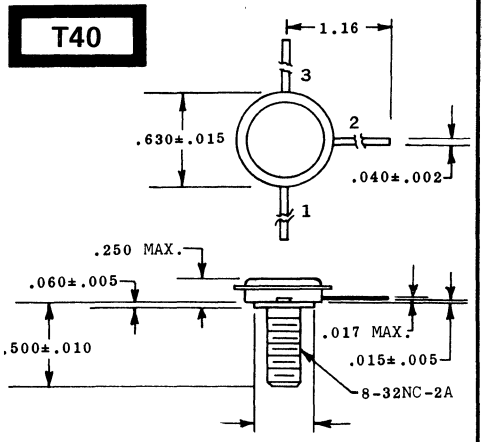


NOTES:
1. THREAD RELIEF IS .090 MAX. BY .430 DIA. NOMINAL.

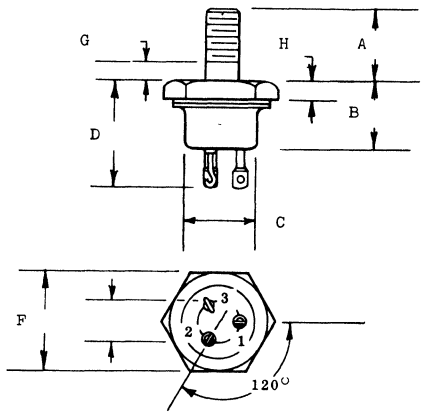
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

T40

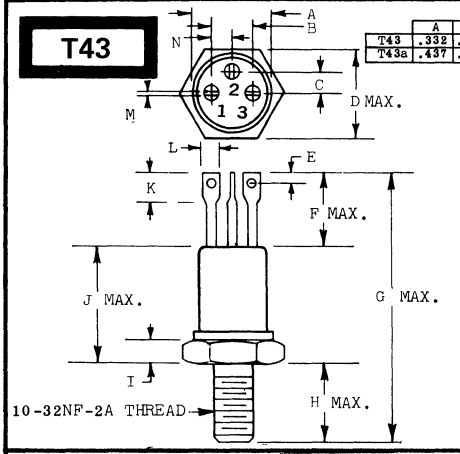


T42



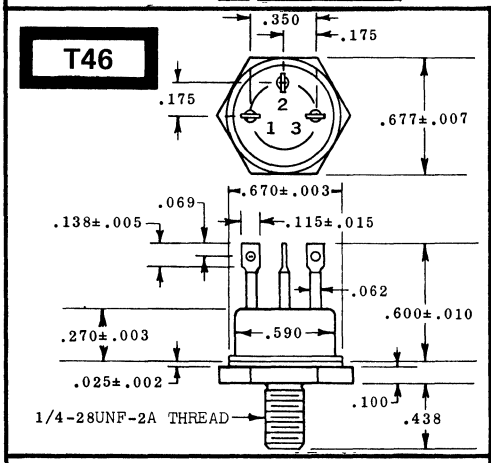
	A	B	C	D	E	F	G	H	THD
T42	.437 MAX	.394 MAX	.352 MAX	.669 MAX	.185 MAX	.437 MAX	.125 MAX	.078	10-32 UNF-2A
T42a	.440 MAX	.400 MAX	.356 MAX	.675 MAX	.190 MAX	.437 MAX	.125 MAX	.078	10-32 UNF-2A
T42b	.455 MAX	.468 MAX	.380 MAX	.763 MAX	.145 MAX	.437 MAX	.078 MAX	.150	10-32 UNF-2A
T42c	.425 MAX	.390 MAX	.378 MAX	.680 MAX	.300 MAX	.437 MAX	.062 MAX	.078	10-32 UNF-2A
T42d	.400 .455	.342 .400	.318 .380	.672 .675	.185 .315	.422 .437	.078 MAX	.080 .140	10-32 UNF-2A

T43

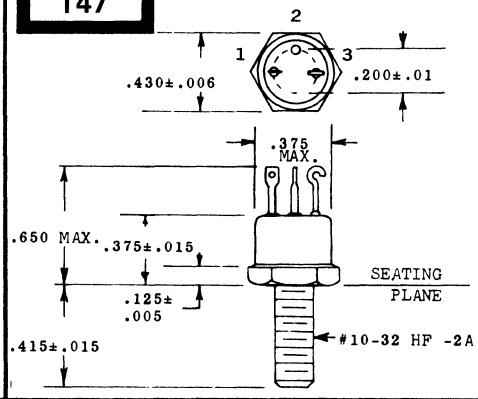


	A	B	C	D	E	F	G	H	I	J	K	L	M	N
T43	.332	.210	.105	.438	.055	.330	1.25	.455	.099	.455	.125	.090	.024	.105
T43a	.437	.215	.110	.437		.295	1.22	.455	.150	.468				

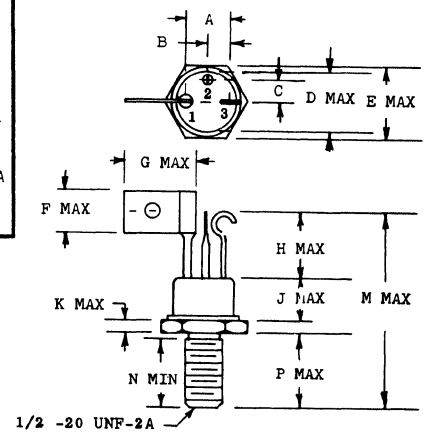
T46



T47



T49

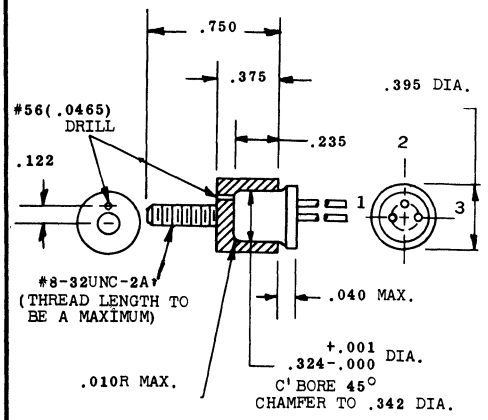


	A	B	C	D	E	F	G	H	J	K	M	N	P
T49	.584	.335	.312	.903	1.067	.640	.890	.880	.530	.213	2.433	.700	.810
T49a		.254	.317	.910	1.062			.485	.590	.185	2.495	.690	.815

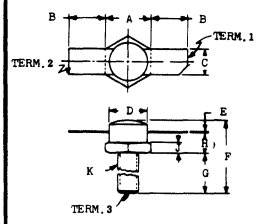
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

T60

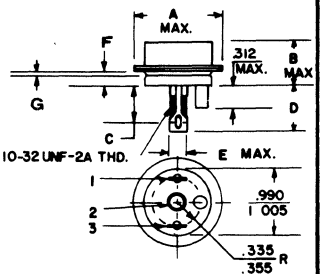


T62



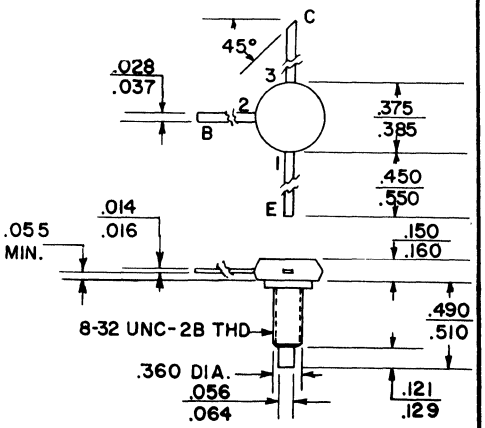
	A	B	C	D	E	F	G	H	J	K
T62	.420 .435	.380	.250	.375	.005	.765	.440	.190	.100	10-32
T62a	.650 .700	.425	.380	.500	.007	.850	.440	.250	.150	1/4-28
T62b	.431	.350	.250	.407	.006	.725	.440	.190	.110	10-32UNF-2A

T63

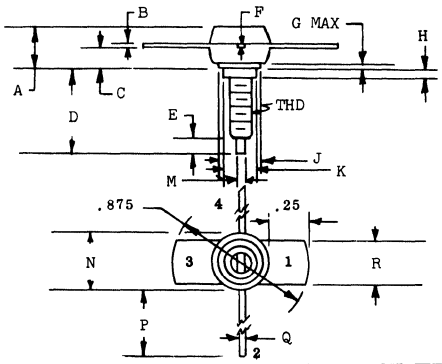


	A	B	C	D	E	F	G
T63	1.250	.520	.375 .500	.610 .710	.185		

T65

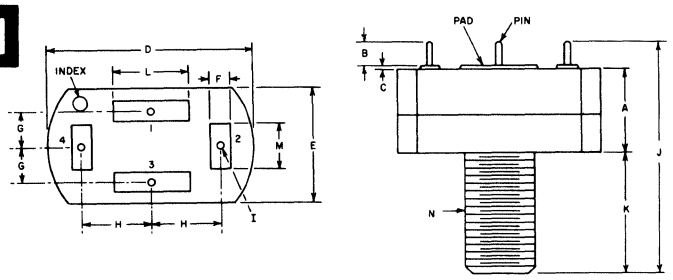


T66



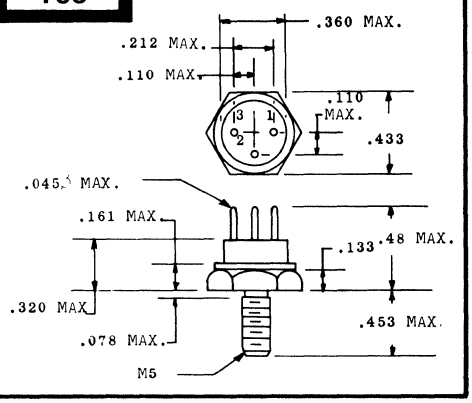
	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	THD
T66	.165	.015	.055	.515	.145	.015	.020	.060	.285	.250	.060	.375	.500	.030	.290	8-32UNC2A
T66a	.220	.003	.106	.512	.118	.007			.323	.275	.079	.433	.075	.079	.118	M4

T67



	A	B	C	D	E	F	G	H	I	J	K	L	M	N
T67	.218 .234	.072 .085	.015 MAX	.469 .490	.337 .345	.055	.089 .105	.140 .150	.021 .023	.655 .724	.360 .390	.145		10-32UNF-2A
T67a	.280 .315	.069 .088	.015 MAX	.650 .680	.360 .380	.055 .065	.111 .131	.213 .233	.020 .025	.785 .850	.420 .420	.235 .250	.135 .150	1/4-28UNF-2A
T67b	.295 .325	.114 .133	.015 MAX	.650 .680	.360 .380	.055 .065	.111 .131	.213 .233	.020 .025	.715 .785	.420 .460	.235 .250	.135 .150	1/4-28UNF-2A(MOD)
T67c	.378			.661Ø	.370			.216		.818	.440	.248	.141	M6

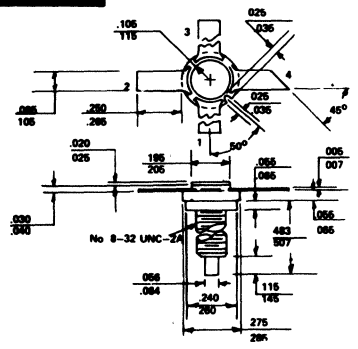
T68



15. OUTLINE DRAWINGS

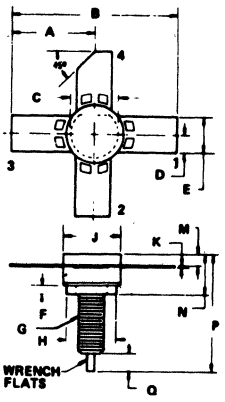
IN DRAWING NUMBER SEQUENCE

T74

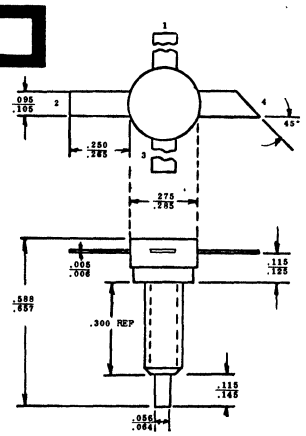


T75

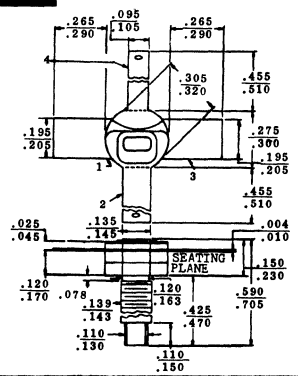
	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
T75	.520 .540	1.05 1.06	.325	.110 .115	.220 .230	.075	10-32NC3A	.305	.365 .385	.005	.080 .100	.245 .275	.710 .750	.100 .130
T75a	.515 .535	1.05 1.06		.110 .115	.220 .230	.080 .100	8-32NC3A	.321 .329	.365 .385	.005	.080 .100	.245 .275	.600 .640	
T75b	.520 .530	1.05 1.06	.420	.110 .115	.220 .230	.080 .100	10-32NC3A		.490 .510	.005	.080 .100	.245 .275	.835 .750	.110 .130
T75c					.071 .085	.075 .081	M3	.295 MAX	.295 MAX	.003		.193 .215	.716	.115 .121
T75d	.525 .535	1.05 1.06		.112	.225	.060	8-32NC2A	.246 .254	.278 .286	.005	.055 .065	.178 .198	.610 .650	.115 .145
T75e	.520 .540	1.05 1.06		.112 .114	.220 .230		8-32NC3A		.465 .485			.240 .260	.710 .730	
T75f					.071 .085	.075 .081	8-32UNC	.295 MAX	.295 MAX	.003		.193 .195	.716	.115 .121
T75g			1.00		.225		8-32UNC2A	.255	.300 MAX	.005	.100	.230	.790	.115 .145



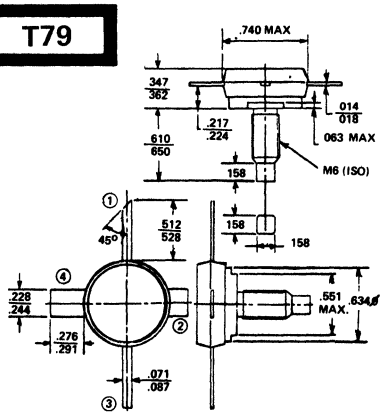
T77



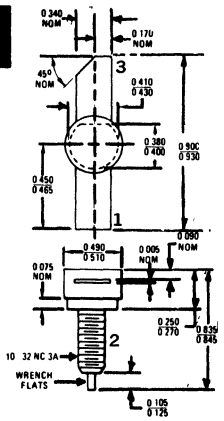
T78



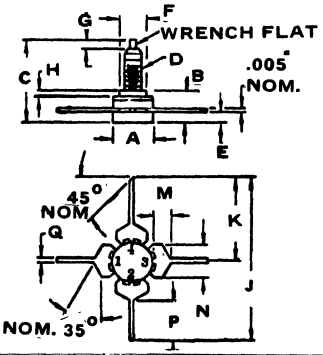
T79



T80

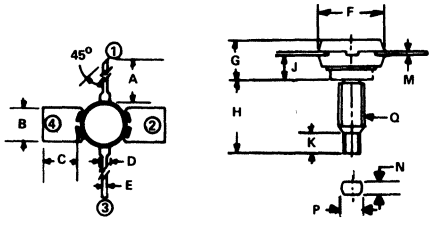


T81



	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
T81	.278 .286	.178 .198	.610 .650	8-32NC2A	.055 .065	.246 .254	.115 .145	.060	1.05 1.06	.525 .535	.160	.225	225	.025 .035
T81a	.365 .385	.245 .275	.835 .845	8-32NC3A	.055 .065	.246 .254	.115 .145	.060	1.05 1.06	.525 .535	.160	225	.225	.025 .035
T81b	.280 .295	.210	.662	8-32UNC2A	.070 .095	.256 MAX	.122 .139		1.04 1.05	.520 .540				.032 .040

T83

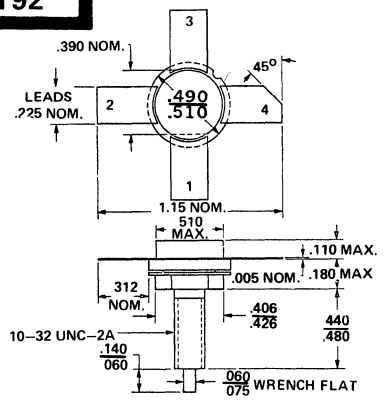


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
T83	.516 .531	.311 .319	.240 .256	.077 .081	.031 .043	.374 MAX	.200 .230	.421 .445	.112 .124	.118	.009 .013	.063	.110	M4
T83a		.307 .322		.051 .060	.031 .047	.385 .401	.216 MAX	.378 .382	.094 .011	.118	.006 .010	.059	.106	M4
T83b		.347 .361		.115 .121	.095 .101	.374 MAX	.399	.767	.219 .239	.177	.088 .014	.177		M6
T83c		.307 .322		.078	.059	.433	.244	.708	.106	.137	.007			M4

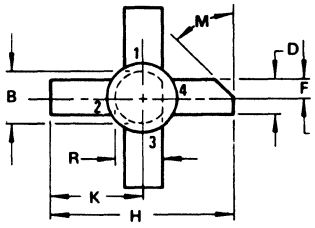
15. OUTLINE DRAWINGS

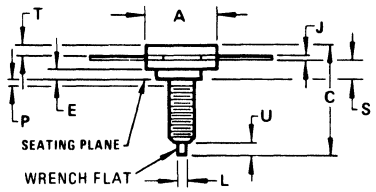
IN DRAWING NUMBER SEQUENCE

T92



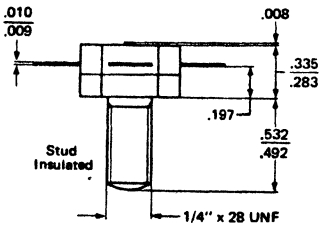
T93

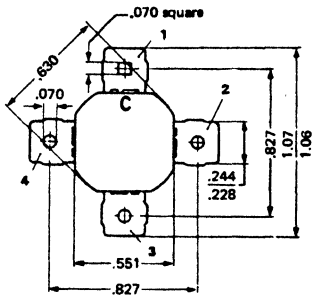




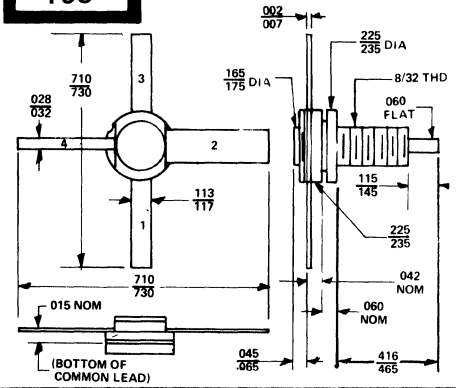
	A	B	C	D	E	F	H	J	K	L	M	P	R	S	T	U
T93	.300 MAX	.255 NOM	.645 .735	.220 .230		.110 .115	1.000	.004 .006	.500		45° NOM	NA	NA	.120 .140	.100	.115 .145
T93a	.370 .386		.718 .808	.220 .230		.110 .115	1.055 1.065	.004 .006	.527 .532		45° NOM	NA	.299 .307	.158 .175	.085 .095	.115 .145
T93b	.375 .385	.320 .330	.710 .750	.220 .230	.070 .080	.110 .115	1.040 1.130	.004 .006	.520 .565	.055 .065	45° NOM	.050 MAX	.299 .307	.158 .178	.085 .095	.100 .130
T93c	.383 MAX		.698 MAX	.145			.984	.004 .005		.106 .118		.062 MAX	NA	.106 .118		.141
T93d	.490 .510	.415 .425	.775 .895	.215 .235	.072 MIN	.107 .117	.870 MIN	.003 .007	.435 MIN	.065 .075	45° NOM	.050 MAX	.383 .396	.151 .177	.083 .100	.098 .132
T93e	.370 .385	.320 .330	.670 .790	.215 .235	.070 MIN	.107 .117	.870 MIN	.003 .007	.435 MIN	.055 .070	45° NOM	.050 MAX	.299 .307	.158 .178	.083 .100	.098 .132

T94

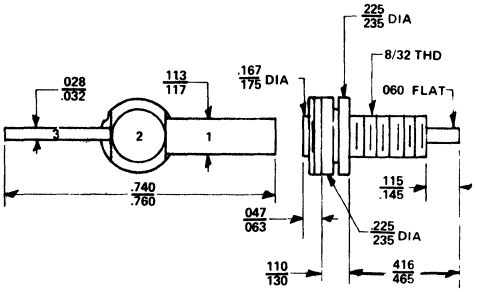




T95

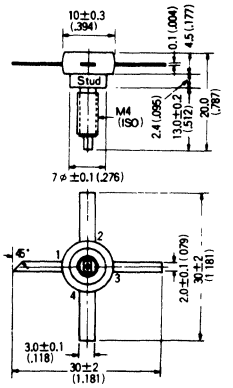


T96

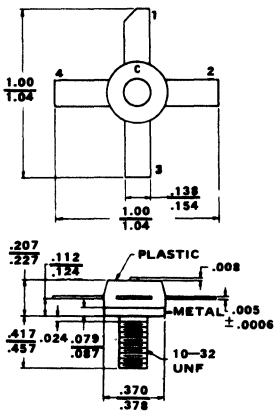


T98

Unit : mm (inch)



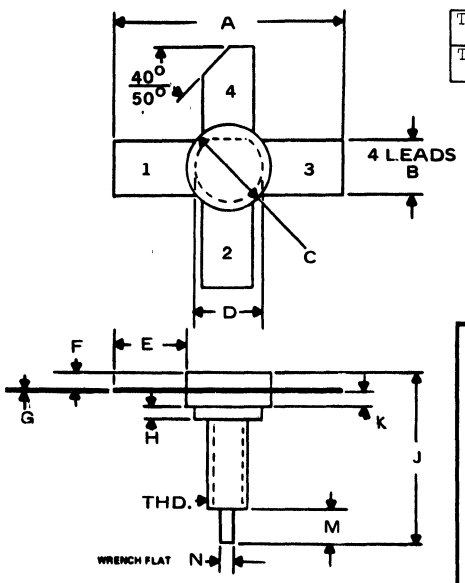
T103



15. OUTLINE DRAWINGS

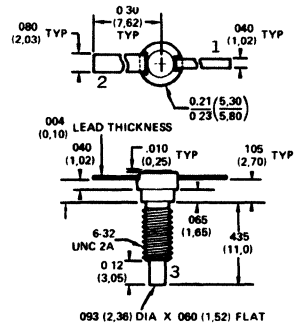
IN DRAWING NUMBER SEQUENCE

T111

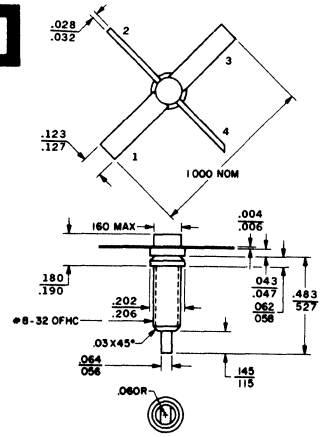


	A	B	C	D	E	F	G	H	J	K	M	N	THD
T111	1.055 1.065	.221 .229	.370 .380	.300 .380	.300 .350	.085 .095	.004 .006	.070 .080	.710 .750	.086 .094	.100 .130	.055 .065	8-32UNC-3A
T111a	1.000	.225		.225 NOM		.095	.005 NOM		.545 .635		.115 .145		8-32UNC-2A

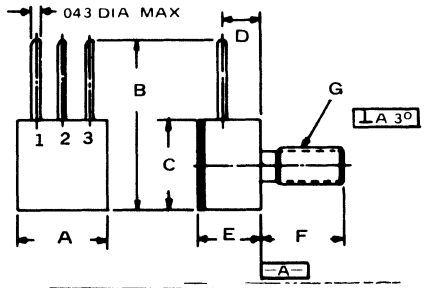
T112



T114

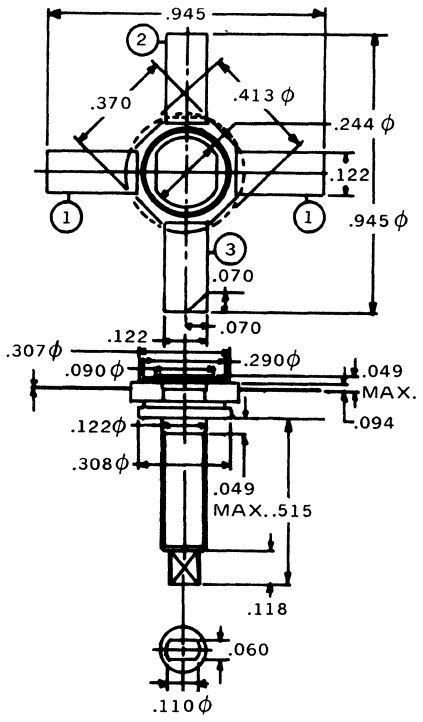


T118

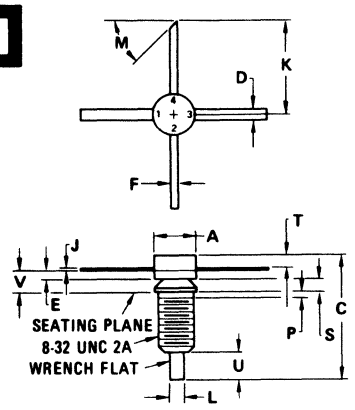


	A	B	C	D	E	F	G
T118	.525 MAX	1.000 MAX	.525 MAX	.215 MAX	.350 MAX	.440 MAX	#10-32UNF-2A
T118a	.625 MAX	1.085 MAX	.625 MAX	.230 MAX	.370 MAX	.445 MAX	1/4-28UNF-2A

T121



T123

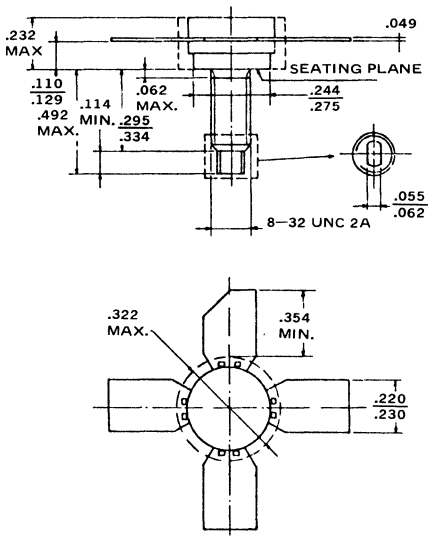


DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	5 08	5.59	0.200	0.220
C	13.97	16.26	0.550	0.640
D	1.40	1.65	0.055	0.065
E	1.02	1.27	0.040	0.050
F	0.64	0.89	0.025	0.035
J	0 08	0.18	0.003	0.007
K	11.05	–	0.435	–
L	1.40	1.65	0.055	0.065
M	45° NOM		45° NOM	
P	–	1.27	–	0.050
S	1.40	1.65	0.055	0.065
T	1.40	1.78	0.055	0.070
U	2.79	3.81	0.110	0.150
V	2 41	2.92	0.095	0.115

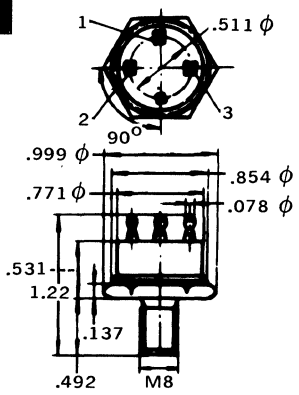
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

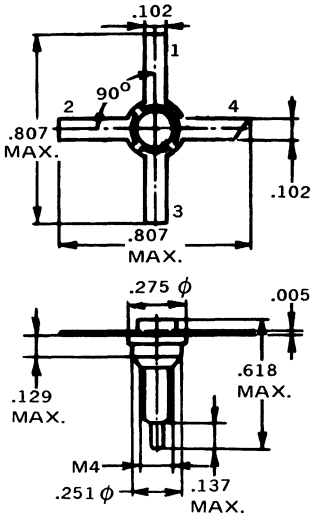
T132



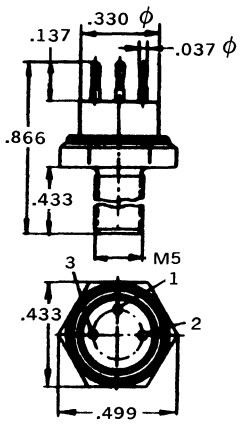
T133



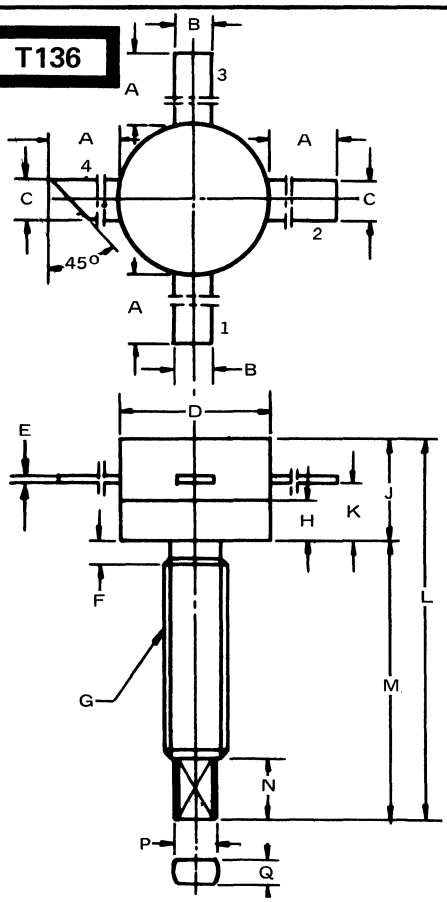
T134



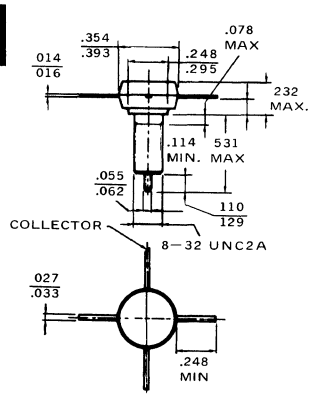
T135



T136



T137

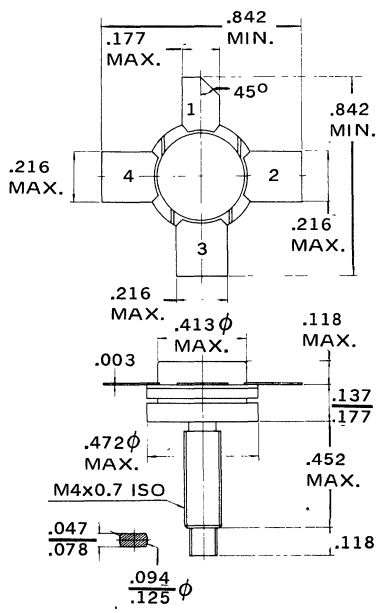


	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
T136	.196 MIN	.070 .086	.070 .086	.295 MAX	.004	.039 MAX	M3	.078	.220 MAX	.106 .129	.744 MAX	.511	.118	.078Ø	.055
T136a	.196 MIN	.098 MAX	.098 MAX	.295 MAX	.004	.039 MAX	M3	.078	.193 .216			.508 .528	.118	.078Ø	.055

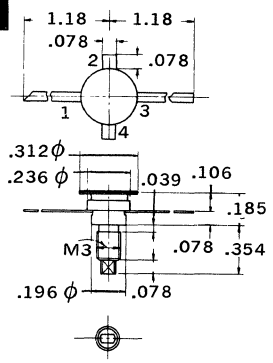
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

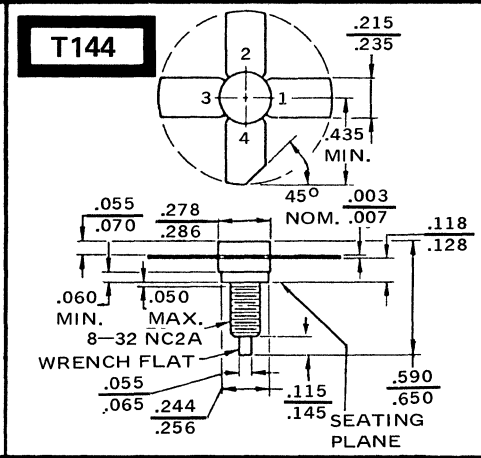
T142



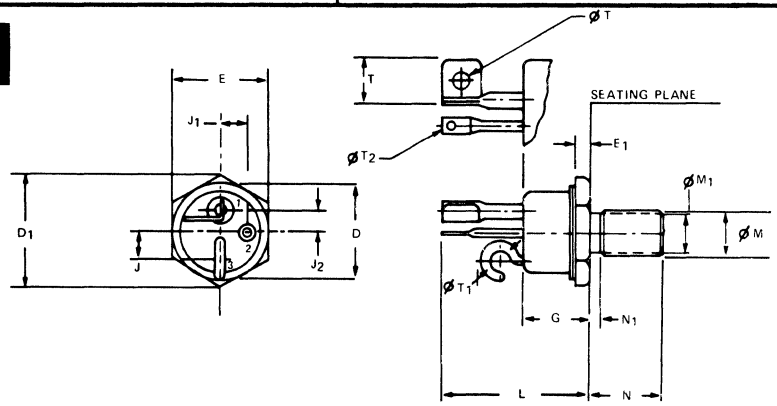
T143



T144



T145

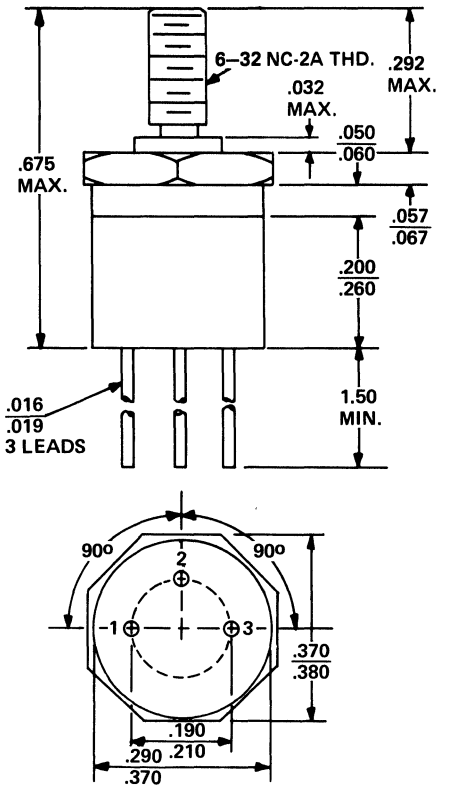


NOTES:

1. Chamfer or undercut on one or both ends of hexagonal portion is optional.
2. Package contour with the exception of the hexagon is optional within dimensions specified
3. Pitch diameter: ¼ - 20 UNF - 2A (plated).
4. Position of leads in relation to the hexagon is not controlled.
5. Length of incomplete or undercut threads of ϕ M.
6. Controlling dimensions: inch.

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
ØD	0.885	1.031	22.48	26.19
ØD		1.227		31.17
E	1.031	1.065	26.19	27.05
E_1		0.185		4.70
G		0.775		19.69
J_1	0.297	0.317	7.54	8.05
J	0.320	0.340	8.13	8.64
J_2	0.234	0.254	5.94	6.45
L		1.680		42.67
ØM				
$ØM_1$	0.425	0.500	10.80	12.70
N	0.781	0.828	19.84	21.03
N_1		0.125		3.18
T		0.512		13.01
ØT	0.180	0.210	4.57	5.33
$ØT_1$	0.234	0.281	5.94	7.14
$ØT_2$		0.104	2.64	
NOTE	6		6	

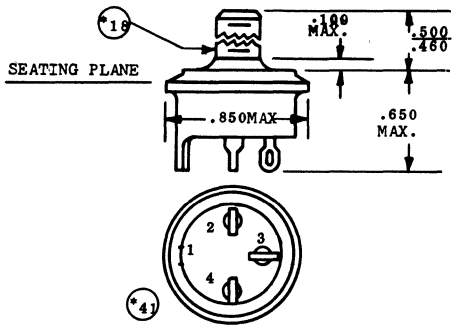
T146



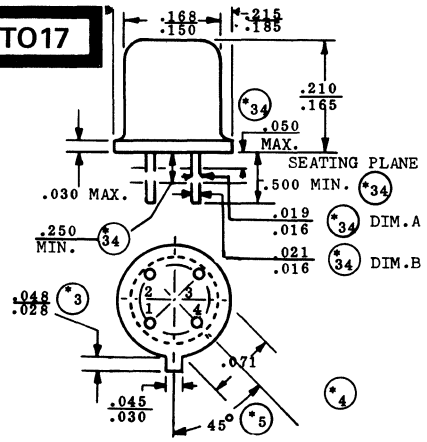
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

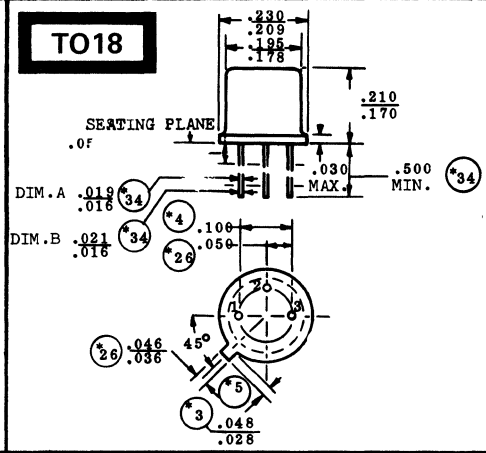
TO15



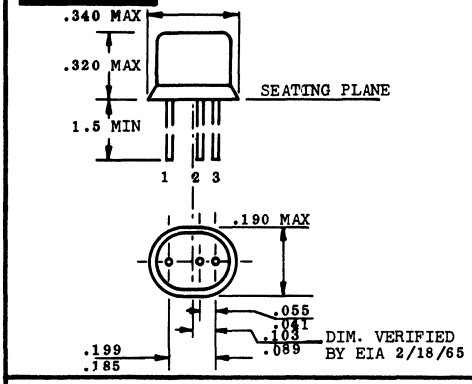
TO17



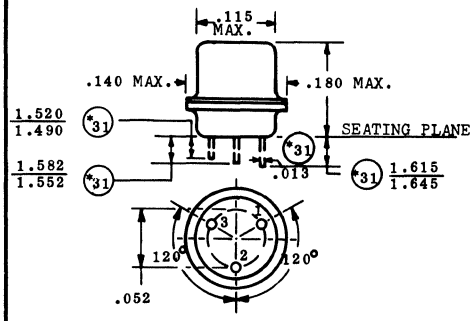
TO18



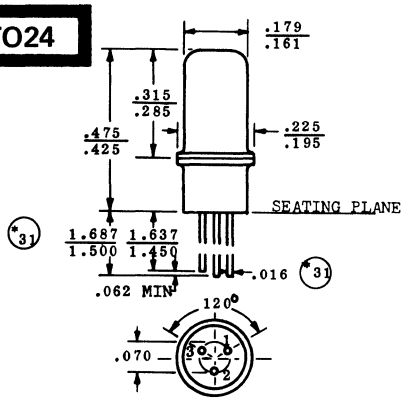
TO22



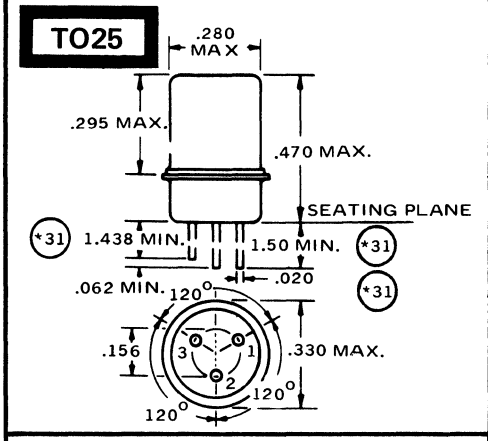
TO23



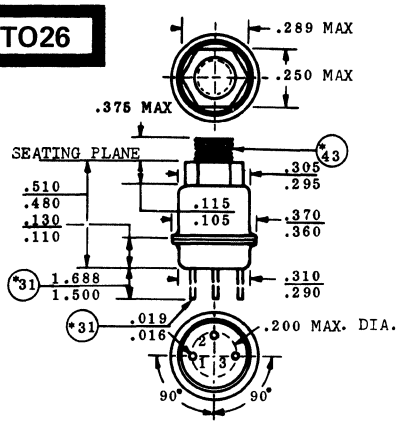
TO24



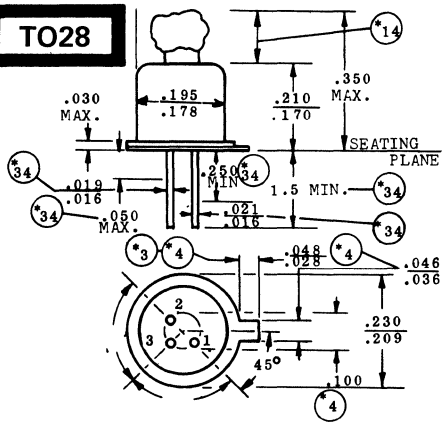
TO25



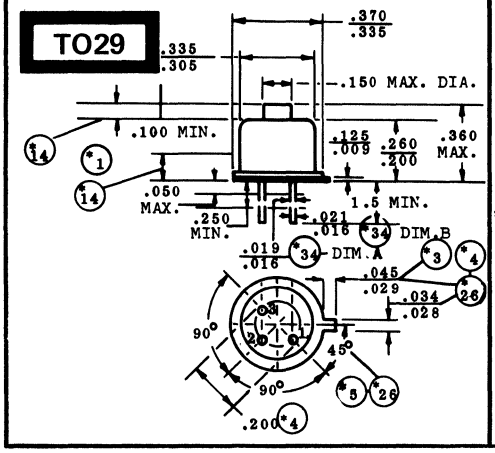
TO26



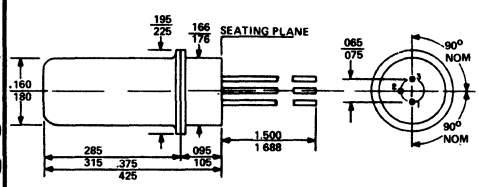
TO28



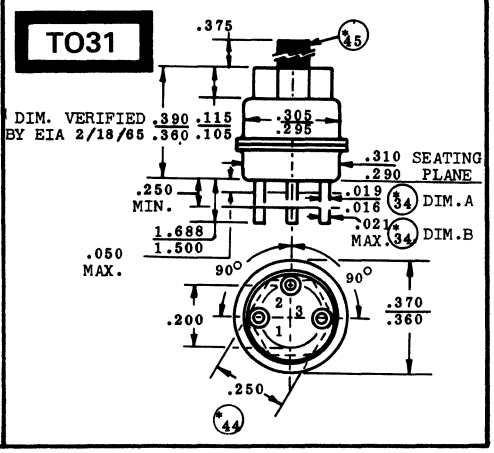
TO29



TO30



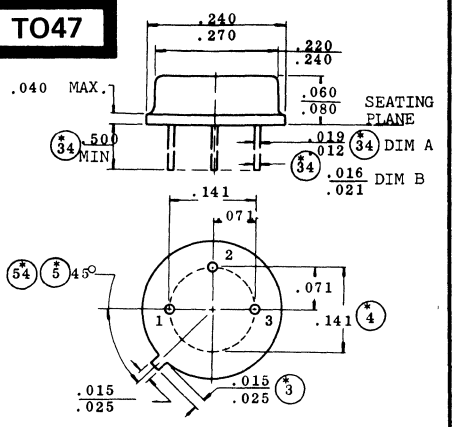
TO31



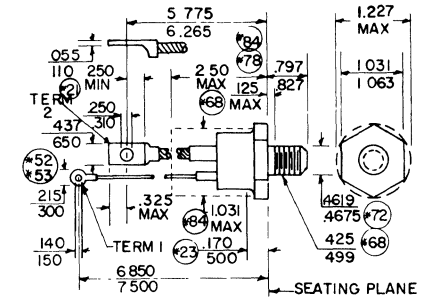
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

TO47

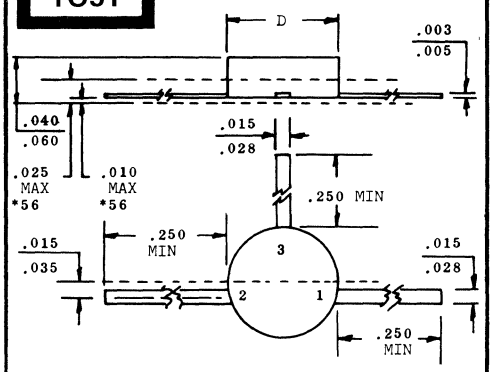


TO49

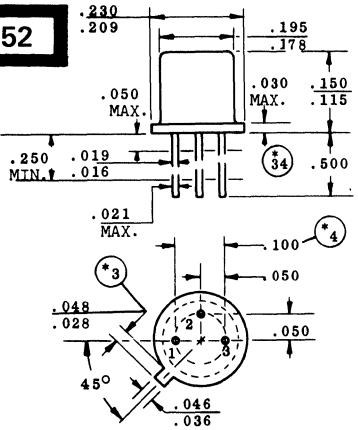


TO50 TO51

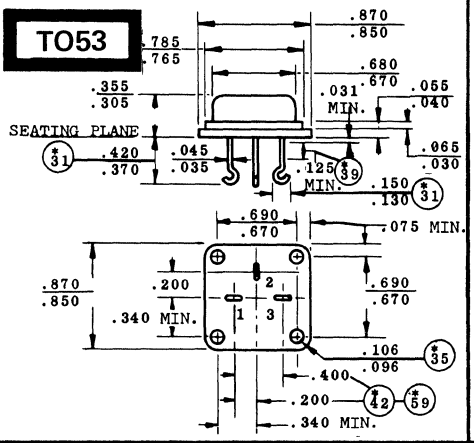
	D-MIN	D-MAX
TO50	.180	.215
TO51	.140	.165



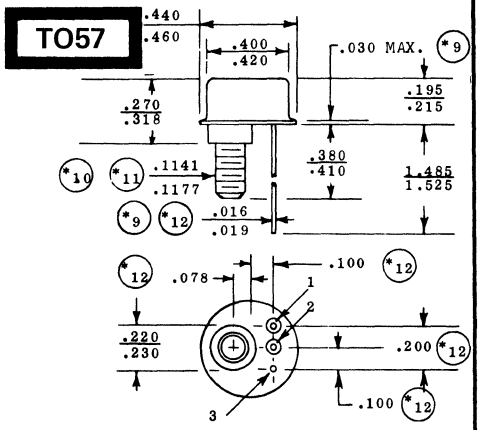
TO52



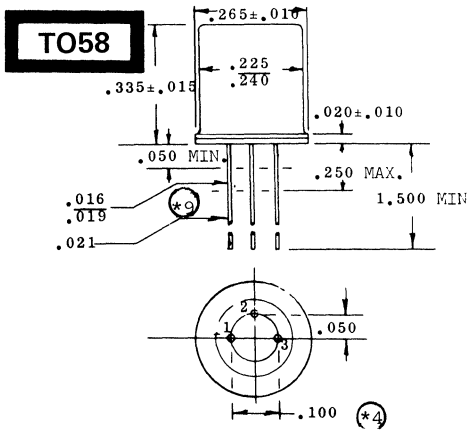
TO53



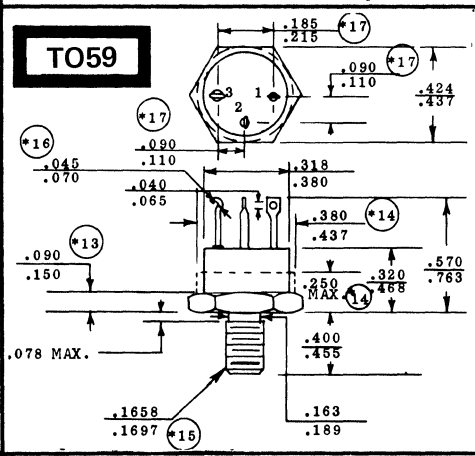
TO57



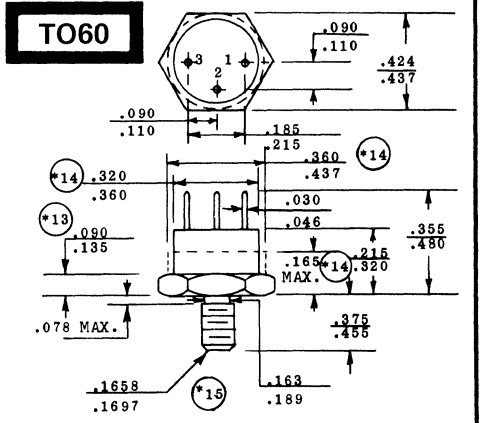
TO58



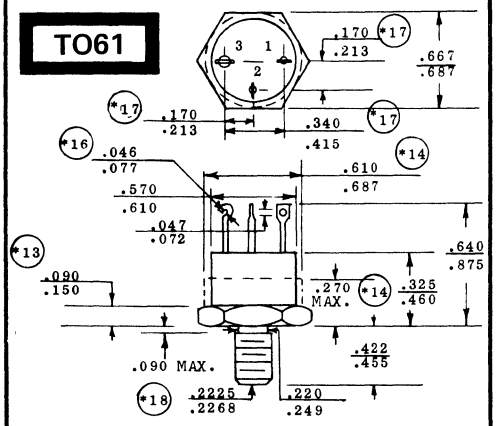
TO59



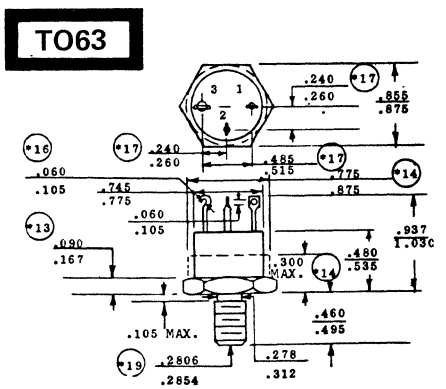
TO60



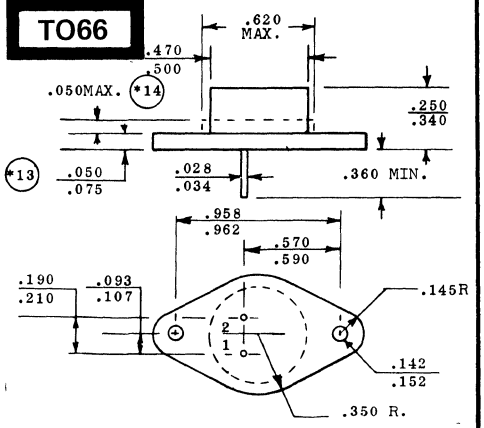
TO61



TO63



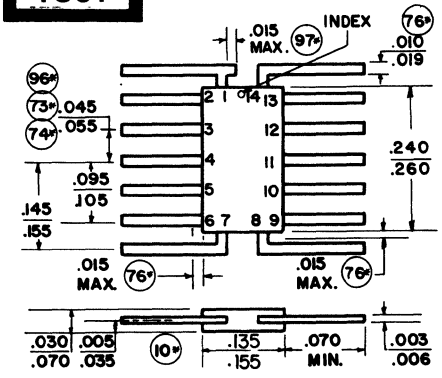
TO66



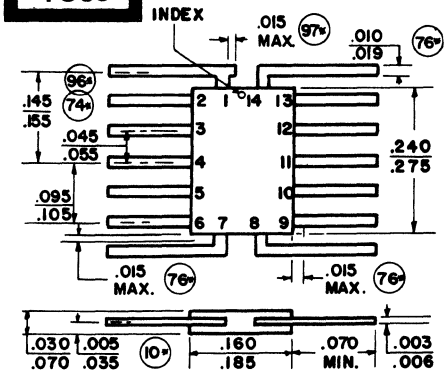
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

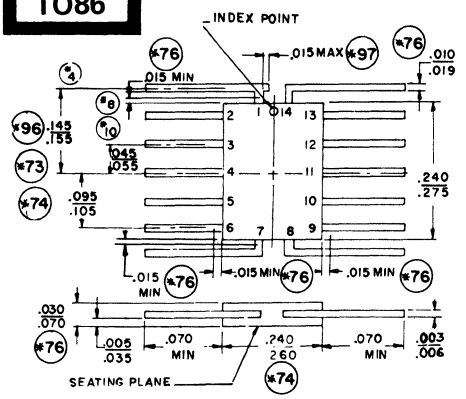
TO84



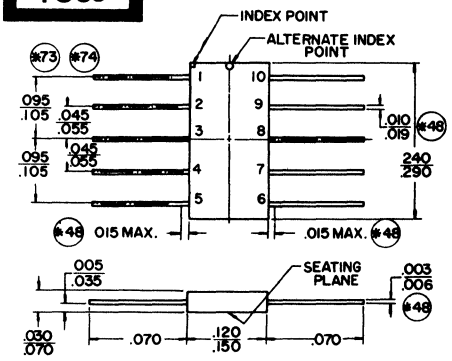
TO85



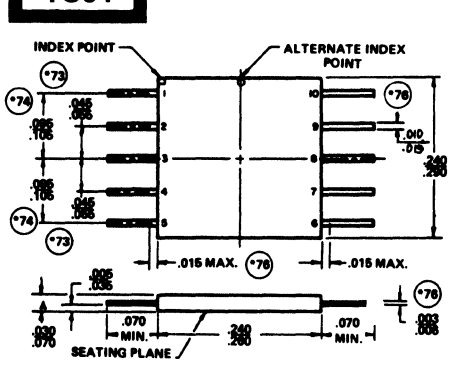
TO86



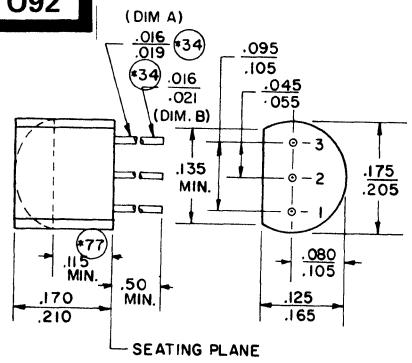
TO89



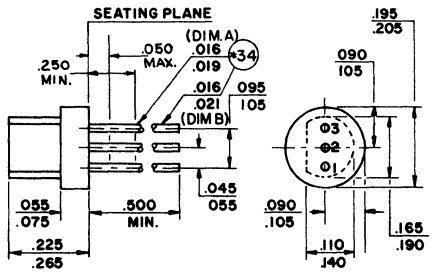
TO91



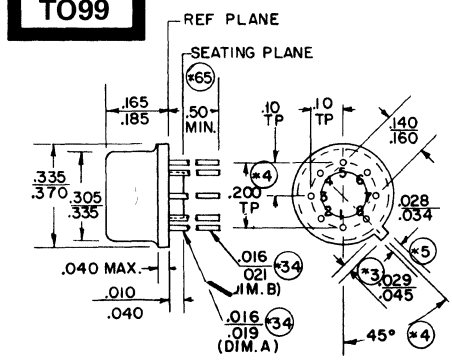
TO92



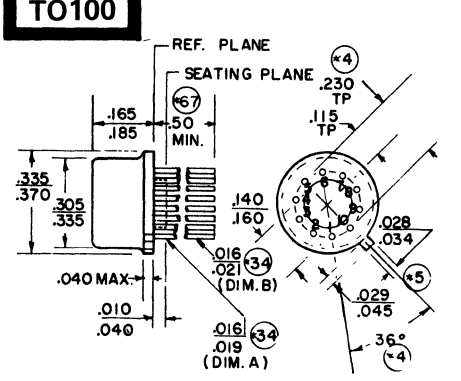
TO98



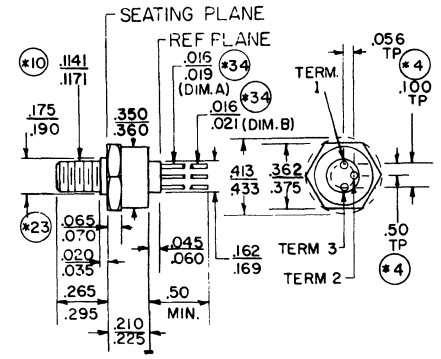
TO99



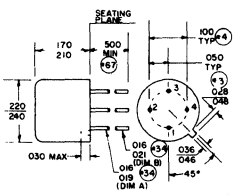
TO100



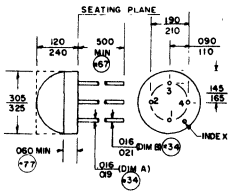
TO102



TO104



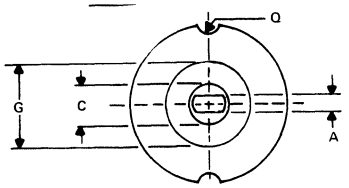
TO105

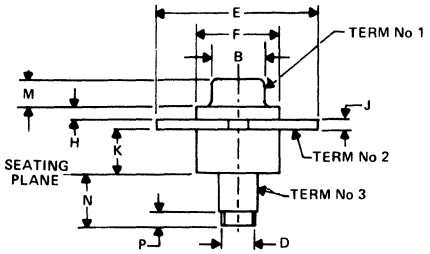


15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

Y201/TO201

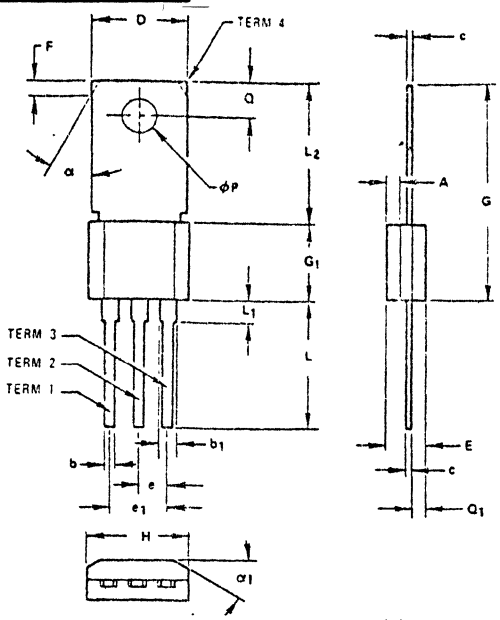




NOTES
1 REFER TO RULES FOR DIMENSIONING SEMICONDUCTOR PRODUCT OUTLINES INCLUDED IN PUBLICATION No.76.

	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
Y201a/	.045	.165	.115	.090	.495	.245	.245	.045	.025	.145	.095	.165	.040	.027
TO201AA	.055	.175	.125	.110	.505	.255	.255	.060	.035	.175	.115	.195	.060	.033

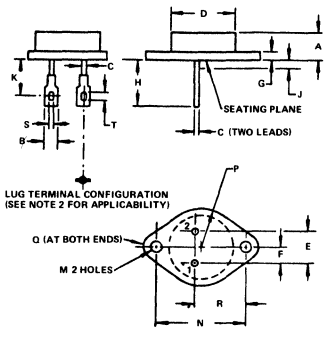
Y202/TO202



NOTES:
1. REFER TO APPLICABLE SYMBOL LIST.
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5 — 1973.
3. CONTOUR OPTIONAL WITHIN DIMENSIONS SPECIFIED.
4. LEAD DIMENSIONS UNCONTROLLED IN THIS ZONE TO ALLOW FOR BODY AND LEAD IRREGULARITIES.
5. CONTROLLING DIMENSIONS: INCH.

	A	b	b1	c	D	E	e	e1	F	G	G1	H	L	L1	L2	ØP	Q	Q1	a	a1	NOTES
Y202a/		.045		.010	.360	.120	.095	.190			.280		.371	.100	.480	.123	.095	.039			1,2,5
TO202AA		.055		.026	.400	.190	.105	.210			.320		.520	MAX	.520	.132	.155	.076			
NOTES:														4							
Y202b/	.060	.023	.035	.018	.270	.130	.095	.190	.070	.760	.230	.330	.380	.050		.123	.115	.039	30°	50°	1,2,5
TO202AB	MAX	.031	.055	.026	.410	.190	.105	.210	MAX	.840	.320	.420	.450	.100		.132	.135	.070	MAX	MAX	
NOTES:	3		3						3					3,4					3	3	
Y202c/	.062	.023	.065	.019	.390	.173	.095	.190	.060	.860	.310	.390	.480	.067		.140	.140	.042		50°	1,2,5
TO202AC	MAX	.029	.080	.026	.410	.183	.105	.210	MAX	.880	.360	.400	.510	.077		.150	.160	.069		MAX	
NOTES:	3								3					4						3	

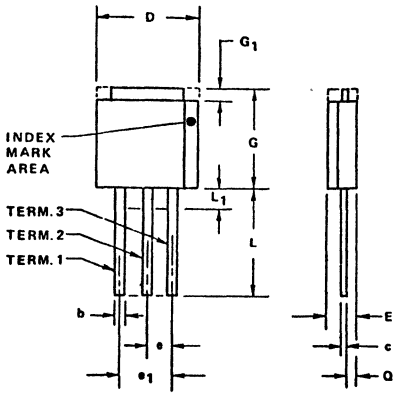
Y204/TO204



NOTES
1 Refer to rules for dimensioning semi conductor product outlines included in Publication No 76
2 Lug terminal configuration required
3 Lug terminal configuration not applicable straight pins required
4 Square or radius on end of terminal and hole configuration optional
5 These dimensions should be measured at points 050 055 below seating plane When gauge is not used, measurement will be made at the seating plane
6 C applies between J and H Diameter is uncontrolled in J
7 The seating plane of the header shall be flat 001 concave to 004 convex inside a 930 diameter circle on the center of the header and flat within 001 concave to 006 convex overall

	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S	T	NOTES	REF
Y204a/	.250		.038	.875	.420	.205	.060	.312	.050		.151	1.177	.495	.131	.655			1,3,7	TO3
TO204MA	.450		.043	MAX	.440	.225	.135	.500	MAX		.161	1.197	.525	.188	.675				
NOTES:			6		5	5			6										
Y204b/	.250	.125	.038	.875	.420	.205	.060	.560	.050	.500	.151	1.177	.495	.131	.655	.072	.072	1,2,7	TO41
TO204MB	.450	.210	.053	MAX	.440	.225	.135	.680	MAX	.581	.161	1.197	.525	.188	.675	.120	.120		
NOTES:		4	6		5	5			6										
Y204c/	.250		.048	.875	.420	.205	.060	.312	.050		.151	1.177	.495	.131	.655			1,3,7	MA
TO204MC	.450		.053	MAX	.440	.225	.135	.500	MAX		.161	1.197	.525	.188	.675				
NOTES:			6		5	5			6										

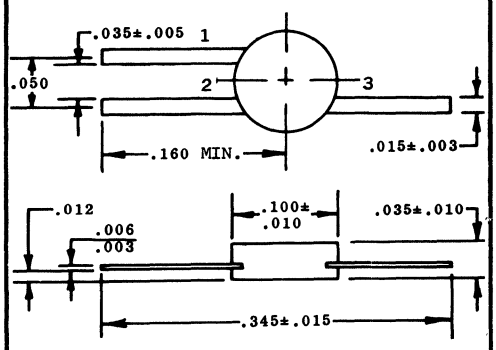
Y221/TO221



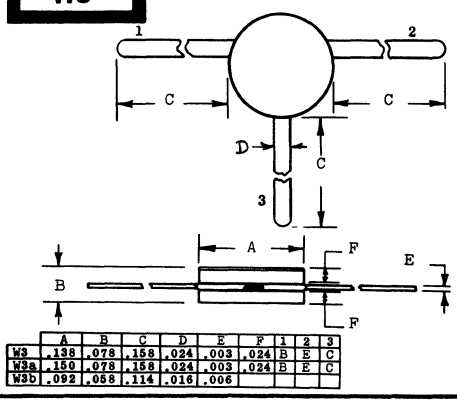
NOTES:
1. REFER TO APPLICABLE SYMBOL LIST.
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5 — 1966.
3. LEAD DIMENSIONS UNCONTROLLED IN THIS ZONE TO ALLOW FOR BODY AND LEAD IRREGULARITIES.
4. LEAD SPACING TO BE MEASURED BETWEEN .125 AND .150 FROM THE POINT OF EMERGENCE FROM THE BODY.
5. CONTROLLING DIMENSIONS: INCH.

	b	c	D	E	e	e1	G	G1	L	L1	J	NOTES
Y221a/	.045	.010	.360	.120	.095	.190	.220	.050	.371	.100	.039	1,2,5
TO221AA	.055	.026	.400	.190	.105	.210	.370	MAX	.520	MAX	.076	
NOTES:					4	4				3		
Y221b/	.023	.010	.360	.120	.095	.190	.220	.050	.371	.100	.039	1,2,5
TO221AB	.029	.026	.400	.190	.105	.210	.370	MAX	.520	MAX	.076	
NOTES:					4	4				3		

W2

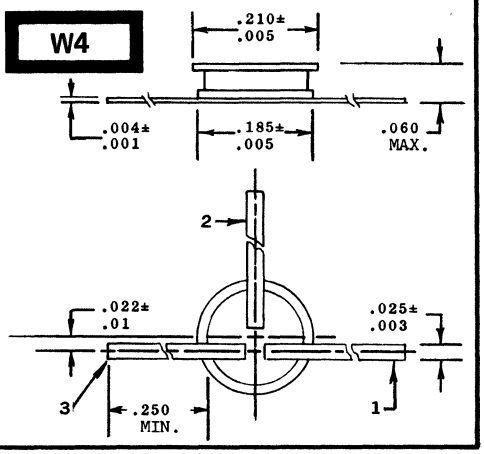


W3



	A	B	C	D	E	F	1	2	3
W3	.138	.078	.158	.024	.003	.024	B	E	C
W3a	.150	.078	.158	.024	.003	.024	B	E	C
W3b	.092	.058	.114	.016	.006				

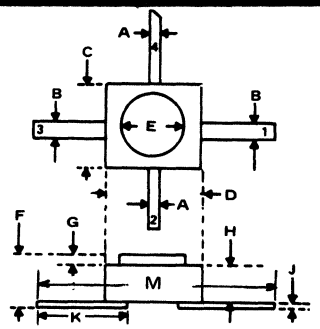
W4



15. OUTLINE DRAWINGS

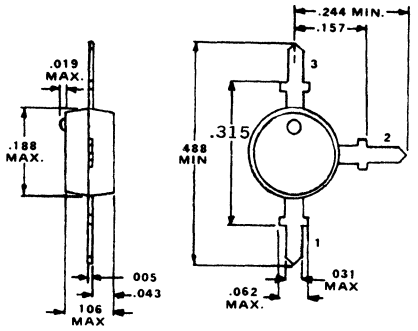
IN DRAWING NUMBER SEQUENCE

W14

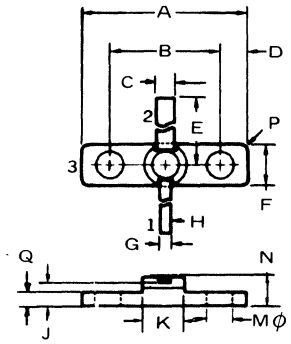


	A	B	C	D	E	F	G	H	J	K	M	REMARKS
W14	.020	.040	.070 TYP	.070 TYP	.070 DIA	NA	NA	.030 TYP	.004	.250 TYP		
W14a	.039	.020	.098	.098	.098	NA	NA	.040	.004		.500	LEAD 1 SLANTED
W14b	.024	.050	.126 .138			.050			.004			
W14c	.015 .023	.035 .043	.092 .104	.092 .104				.039 .051	.002 .004		.432 .510	

W15

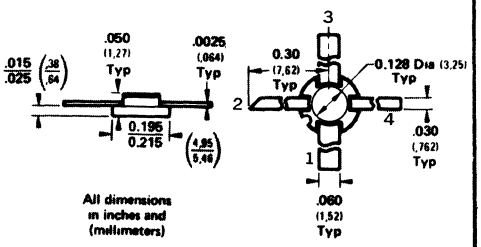


W16



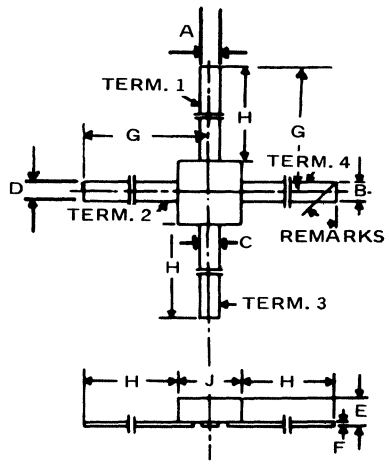
	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
W16	.800 TYP	.560 TYP	.080 TYP	.120 TYP	.300 TYP	.200 TYP	.040 TYP	.004 TYP	.125 TYP	.220 .230	.120 TYP	.150 TYP	.310 TYP	
W16a	.825 MAX	.531 .570	.078 .098	.295 MAX		.275 MAX	.059 MAX					.196 MAX		.078 MAX

W17

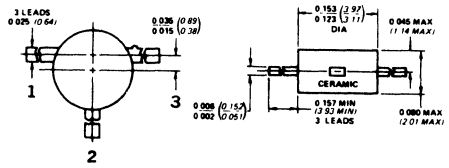


W18

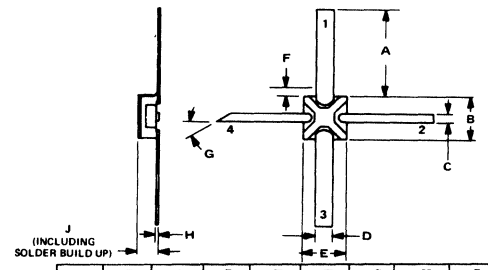
	A	B	C	D	E	F	G	H	J	REMARKS
W18	.021 .026	.021 .026	.021 .026	.021 .026	.035 .060	.002 .007		.196	.066 .093	LEAD 4 SLANTED 45°
W18a	.019	.019	.019	.019	.055	.003	.157		.068	LEAD 2 SLANTED
W18b	.062	.019	.062	.019	.055 MAX	.003	.157 MIN	.216 MIN	.098	LEAD 2 SLANTED 45°



W20



W21

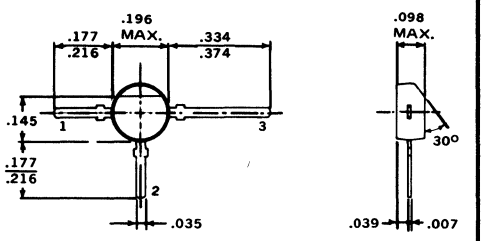


	A	B	C	D	E	F	G	H	J
W21	.200 MIN	.090 .110	.017 .023	.036 .042	.090 .110	.020	30°	.003 .006	.050 MAX
W21a	.275	.131 .143	.023 .031	.074 .082	.131 .143		45°	.003	.059
W21b	.230 .280	.095 .105	.016 .074	.036 .044	.095 .105			.002 .006	.050 MAX
W21c	.230 .280	.065 .075	.016 .024	.036 .044	.065 .075			.002 .006	.050 MAX

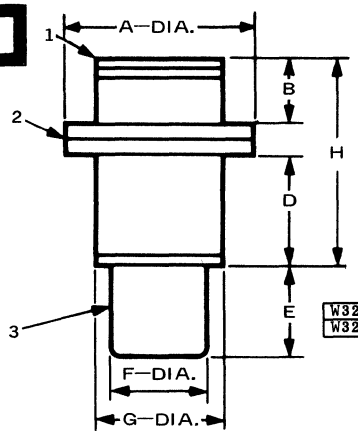
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

W31

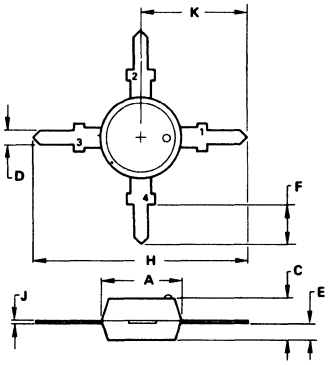


W32



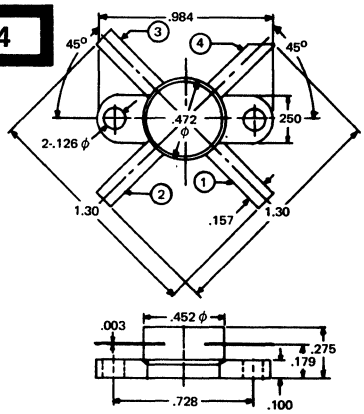
	A	B	C	D	E	F	G	H
W32	.120	.045	.135	.067	.062	.062	.080	
W32a		.047	.136	.067	.062	.060	.080	.198

W33

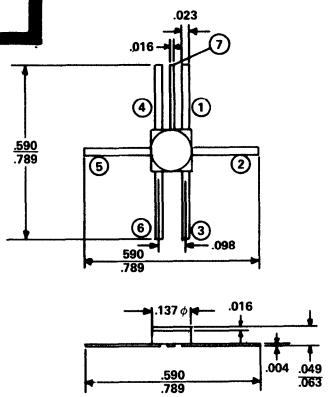


DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	–	4.78	–	0.188
C	–	3.05	–	0.120
D	0.64	0.89	0.025	0.035
E	0.97	1.22	0.038	0.048
F	2.21	2.46	0.087	0.097
H	12.40	12.90	0.488	0.508
J	0.10	0.15	0.004	0.006
K	6.20	6.45	0.244	0.254

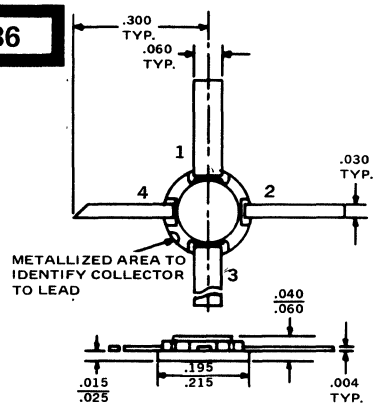
W34



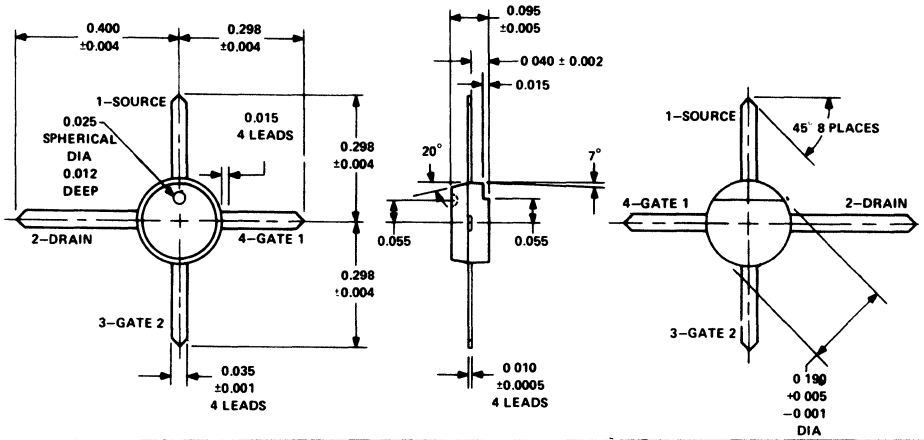
W35



W36



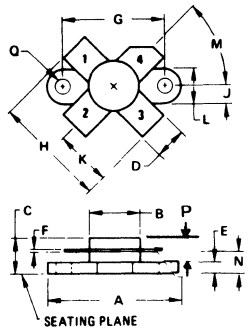
W37



15. OUTLINE DRAWINGS

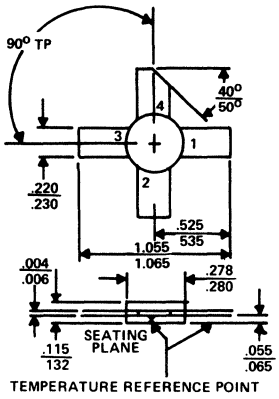
IN DRAWING NUMBER SEQUENCE

W52

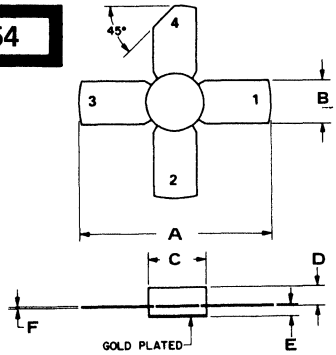


	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
W52	.970	.375	.239	.220	.085	.004	.720	.790	.122	.390	.245	40°			.117
	.980	.383	.281	.230	.105	.006	.730	.810	.127	.410	.255	50°			.123
W52a	.970	.465	.229	.085	.084	.004	.720	1.40	.122	.700	.245	40°			.117
	.980	.475	.265	.155	.100	.006	.730	1.50	.127	.750	.255	50°			.123
W52b	.970	.373	.239	.220	.085	.004	.720	.850	.123	.425	.245	40°	.150		.117
	.980	.383	.281	.230	.105	.006	.730	.870	.127	.435	.255	50°	.180		.123
W52c		.375	.260	.225	.100	.005	.725				.250	45°	.160	.160	.125
W52d		.500	.285	.225	.125	.005	.725				.250	45°	.165	.160	.125
W52e		.450	.244	.221	.085	.004	.720	1.05			.245	40°	.145	.159	.122
		.510	.286	.229	.105	.006	.730	1.06			.255	50°	.175	.181	.127
W52f	.970	.464	.229	.085	.083	.003	.720	1.39	.122	.699	.244	40°	.144		.116
	.979	.509	.264	.155	.100	.005	.729	1.49	.127	.749	.255	50°	.170		.122
W52g	.970	.465	.229	.085	.084	.004	.720	1.400	.122	.700	.245	40°	.144	.145	.115
	.980	.510	.275	.155	.100	.006	.730	1.500	.127	.750	.255	50°	.178	.175	.125
W52h	.970	.370	.229	.215	.085	.004	.720	.850	.122	.425	.245	40°	.150	.144	.113
	.980	.390	.281	.235	.105	.006	.730	.870	.127	.435	.255	50°	.180	.176	.130
W52j	.970	.490	.229	.240	.085	.004	.720	.970	.122	.485	.245	40°	.150	.144	.113
	.980	.510	.281	.260	.105	.006	.730	1.030	.127	.515	.255	50°	.180	.176	.130
W52k	.970	.370	.229	.215	.085	.004	.720	.790	.122	.395	.245	40°	.150		.113
	.980	.390	.281	.235	.105	.006	.730	.810	.127	.405	.255	50°	.180		.130
W52m	.970	.465	.229	.085	.084	.003	.720			.700	.245	45°	.144		.115
	.980	.510	.275	.155	.110	.007	.730			MIN	.255	NOM	.178		.130
W52n	.970	.495	.229	.216	.084	.003	.720	.870	.123	.435	.246	45°	.144	.145	.115
	.980	.510	.275	.235	.110	.007	.730	MIN	.127	MIN	.255	NOM	.178	.175	.130
W52p	.970	.465	.229	.216	.084	.003	.720			.435	.246	45°	.144		.115
	.980	.510	.275	.235	.110	.007	.730			MIN	.255	NOM	.178		.130

W53

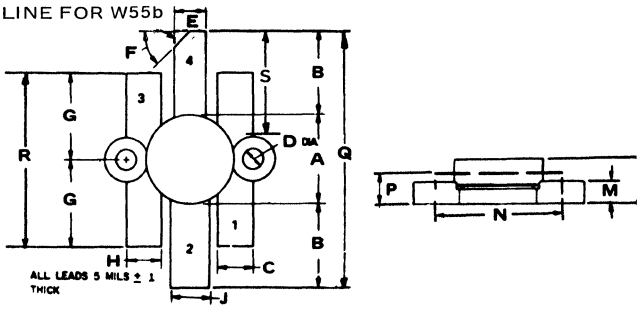


W54



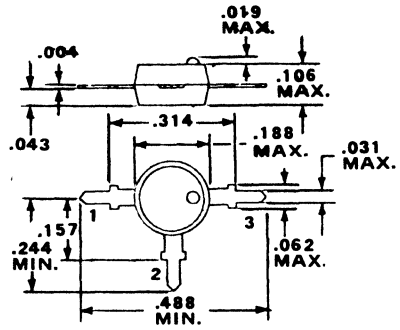
	A	B	C	D	E	F
W54	1.00	.225	.300	.100	.060	.005

W55

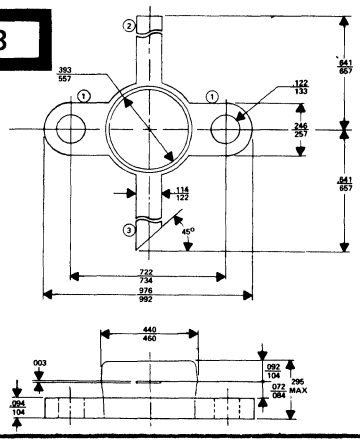


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S
W55	.475	.465	.195	.120	.170	40°	.480	.195	.220	.260	.120	.720	.160			
	.525	.485	.205	.130	.190	50°	.500	.205	.230	.280	.130	.730	.175			
W55a				.117	.205		.490	.215	.155	.300 MAX	.100	.735	.160 .175		.980	.602
W55b	.456 .496	.720 .763	.204 .228	.078 .118	.145 .165	NA	.476 .511	.204 .228	.192 .216		.094 .110	.716 .740	.145 .169			

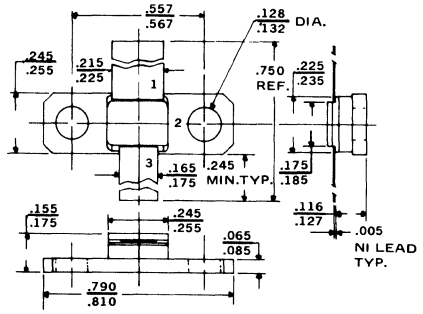
W56



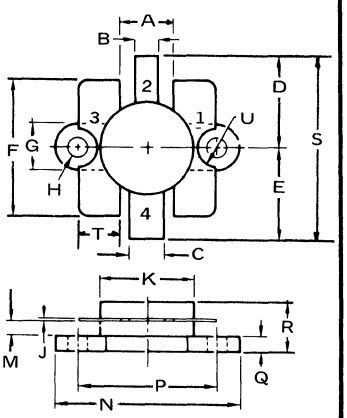
W58



W60



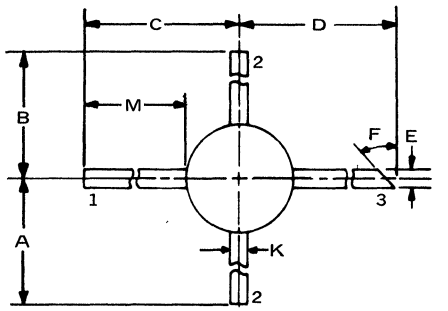
W61

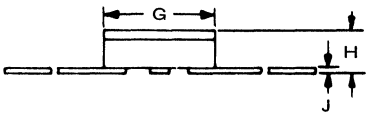


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S	T	U	REMARKS
W61	.270	.120	.170	.480	.480	.720	.240	.110	.004	.490	.065	.965	.720	.085	.235	.960		.105	
	.280	.130	.180	.500	.500	.760	.260	.125	.006	.510	.075	.990	.730	.105	.300	1.000		.120	
W61a		.177 MAX	.236 MAX				.866	.106 .137	.003	.511 MAX		1.00 MAX	.685 .763	.137 MAX	.275 MAX	1.338	.216	.105 .120	Lead 2 Slanted 45°

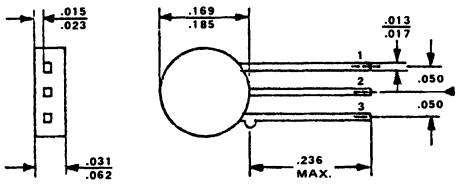
W69

	A	B	C	D	E	F	G	H	J	K	M
W69	.354 MIN	.354 MIN	.354 MIN	.354 MIN	.017 .029	45°	.133 .149	.039 .063	.005 MAX		
W69a	.200 TYP	.200 TYP	.200 TYP	.200 TYP	.020 TYP	45° TYP	.062 .078	.031 TYP	.004 TYP		
W69b					.015 .023	45°	.068 .128	.039 .051	.003 .005	.035 .043	.216 .255
W69c	.200 TYP	.200 TYP	.200 TYP	.200 TYP	.020 TYP	45°	.062 .078	.031 TYP	.004 TYP	.030 TYP	

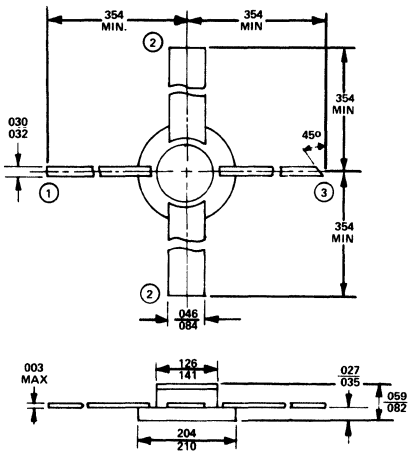




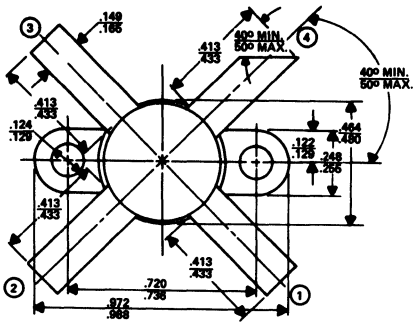
W71

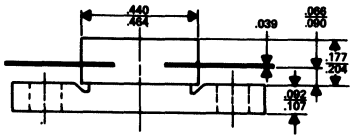


W70

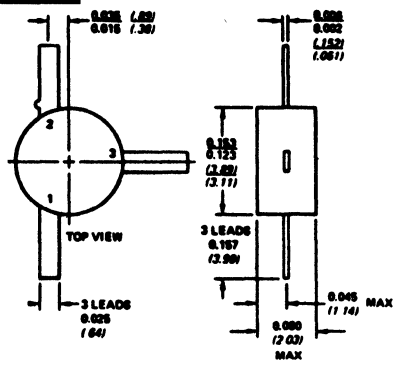


W72





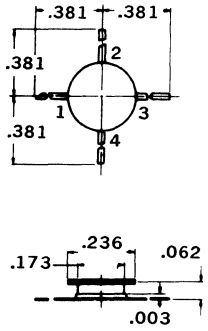
W73



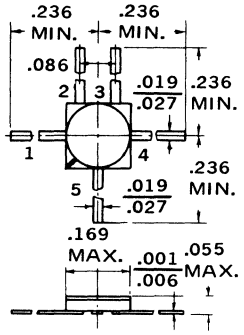
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

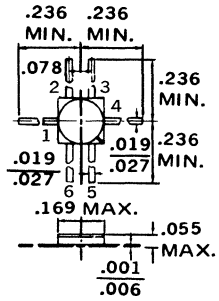
W83



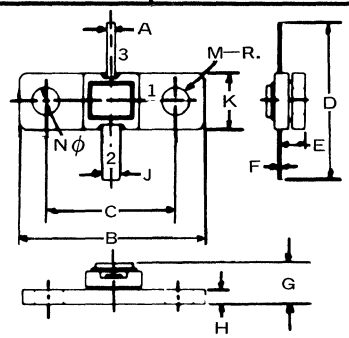
W84



W85

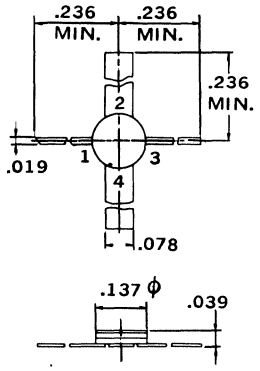


W86

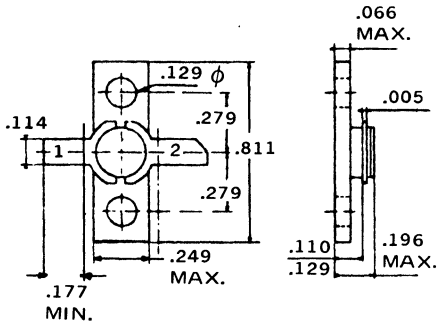


	A	B	C	D	E	F	G	H	J	K	M	N
W86	.039	.787	.551	.685	.118	.003	.161	.055	.078	.259	.039	.118
W86a	.059	.826	.531 .570	.685	.098 .137	.003	.196	.078	.098	.275	.039	.102 .118

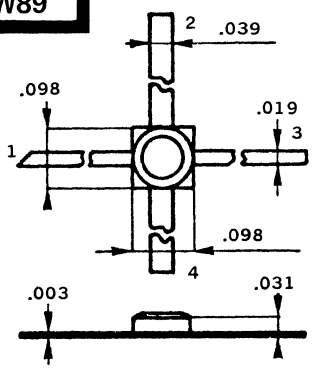
W87



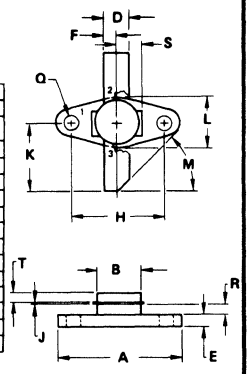
W88



W89

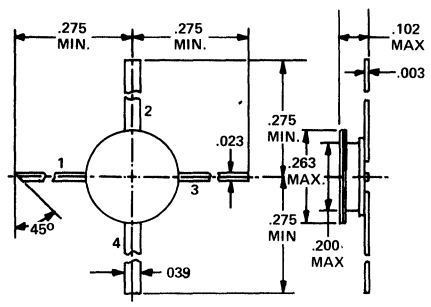


W91

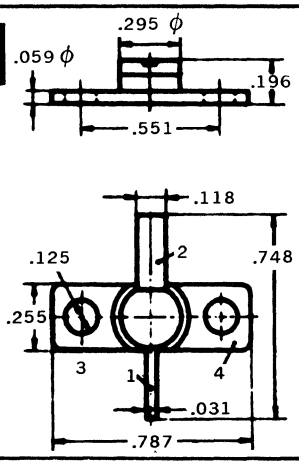


DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	21.08	21.59	0.830	0.850
B	9.27	9.78	0.365	0.385
D	5.59	5.84	0.220	0.230
E	2.03	2.41	0.080	0.095
F	2.79	2.92	0.110	0.115
H	15.11	15.37	0.595	0.605
J	0.10	0.15	0.004	0.006
K	13.08	13.59	0.515	0.535
L	9.91	10.41	0.390	0.410
M	45°	NOM	45°	NOM
Q	2.82	3.18	0.115	0.125
R	1.52	2.03	0.060	0.080
S	-	5.38	-	0.212
T	2.03	2.54	0.080	0.100

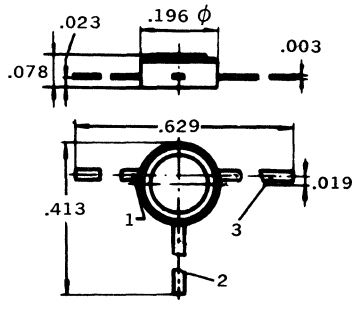
W93



W94



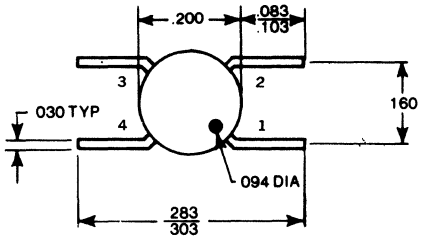
W95



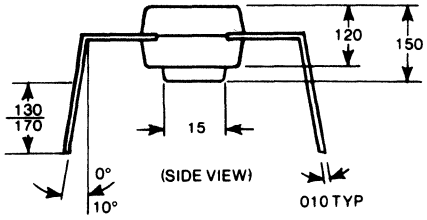
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

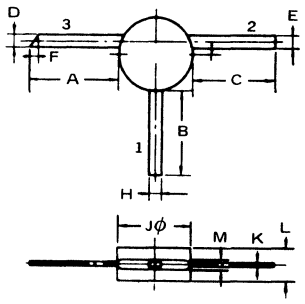
W105



(TOP VIEW)

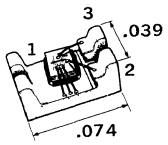


W106

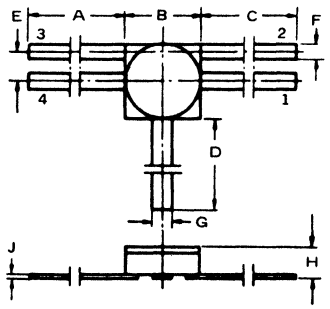


	A	B	C	D	E	F	G	H	J	K	L	M
W106	.157 MIN	.157 MIN	.157 MIN	.023	.023	.013	.023	.023	.149 MAX	.003	.078 MAX	.023

W107

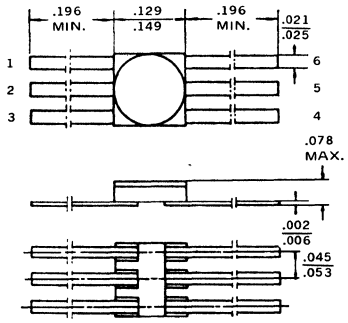


W108

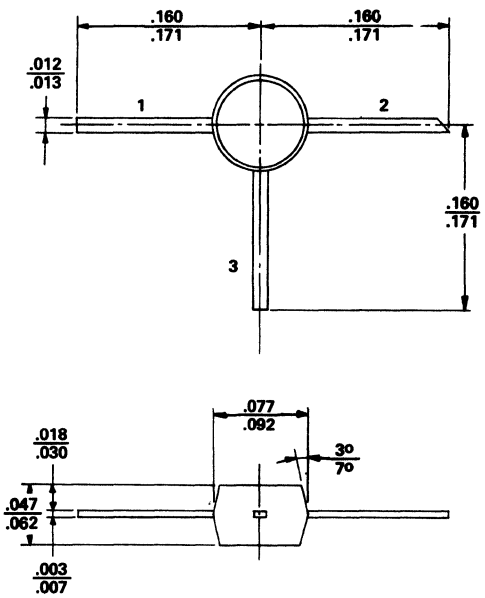


	A	B	C	D	E	F	G	H	J
W108	.196 MIN	.129 .149	.196 MIN	.196 MIN	.045 .053	.019 .027	.019 .027	.078 MAX	.002 .004

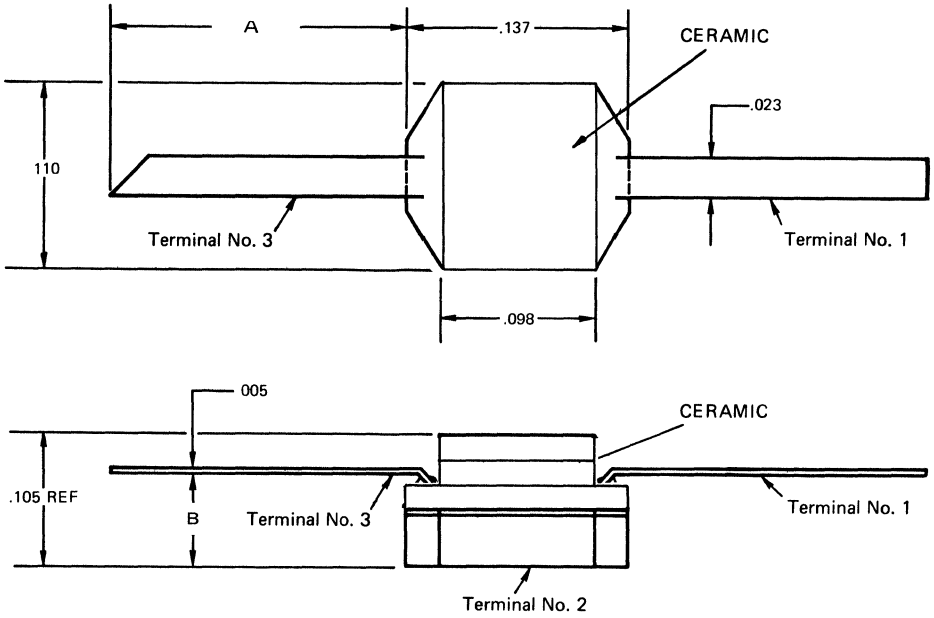
W109



W110

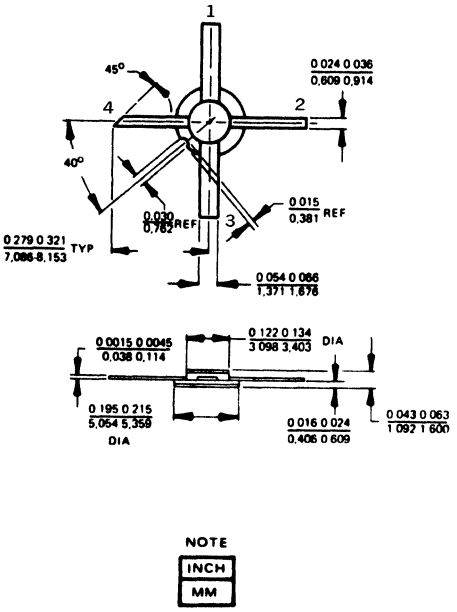


W114



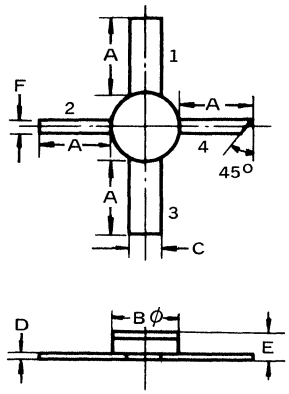
	A	B
W114	.125 TYP	.055
W114a	.187 TYP	.065

W115



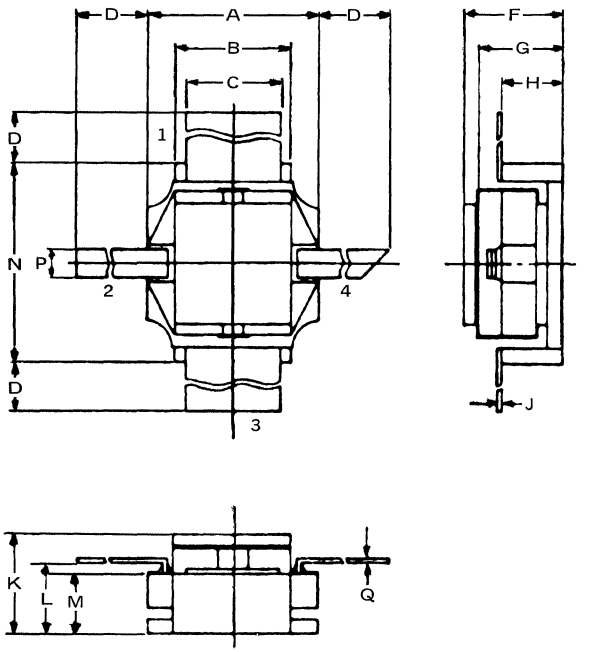
NOTE
INCH
MM

W116



	A	B	C	D	E	F
W116	.196 MIN	.130 .150	.070 .090	.004	.047 .070	.035 .043
W116a	.158 MIN	.157 .177	.070 .090	.004	.055 .075	.020 .028
W116b	.196 MIN	.150 MAX	.070 .090	.004	.079 MAX	.035 .043

W117

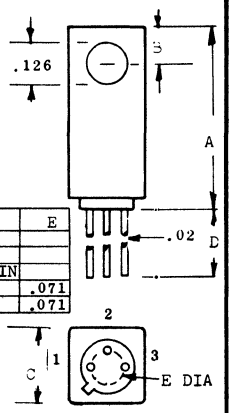


	A	B	C	D	F	G	H	J	K	L	M	N	P	Q
W117	.126 .150	.087 .102	.071 .087	.196 MAX	.106 MAX	.063 .087	.035 .059	.004	.106 MAX	.043 .067	.043 .059	.146 .169	.020 .028	.004

15. OUTLINE DRAWINGS

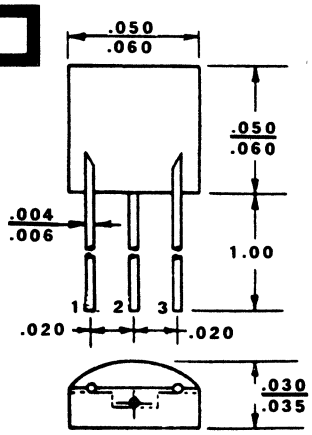
IN DRAWING NUMBER SEQUENCE

X9

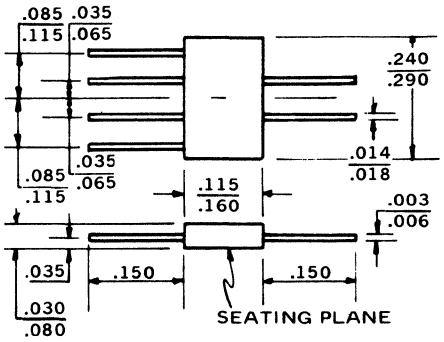


	A	B	C	D	E
X9	.670	.118	.236	1.58	
X9a	.610	.134	.276	1.58	
X9b	.670	.118	.236	.50 MIN	
X9c	.618	.134	.283	1.50	.071
X9d	.618	.134	.276	1.50	.071

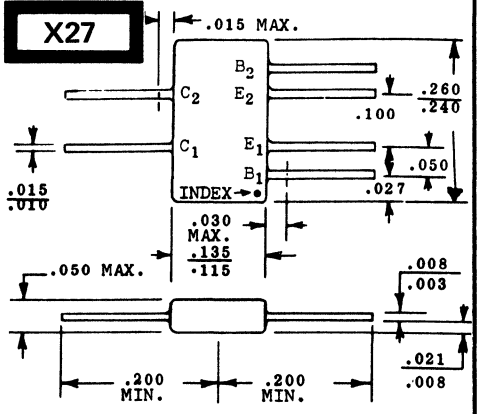
X16



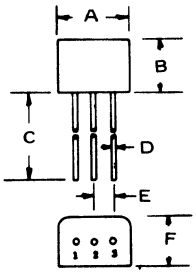
X22



X27

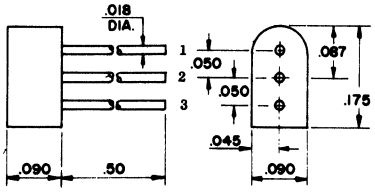


X59

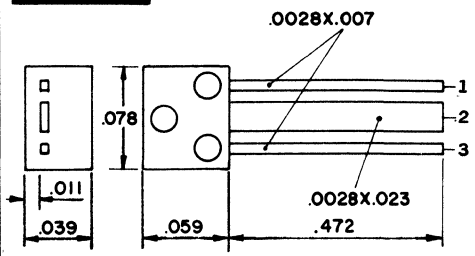


	A	B	C	D	E	F
X59	.170 .190	.140 .160	.500 TYP	.018	.050	.080 .100
X59a	.171 .190	.139 .159	.405 .594	.018	.051	.080 .090

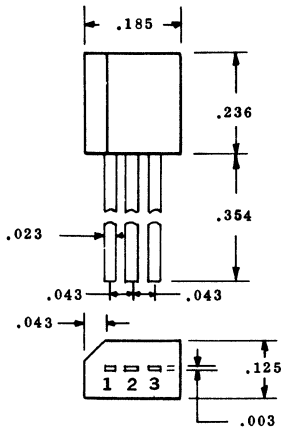
X149



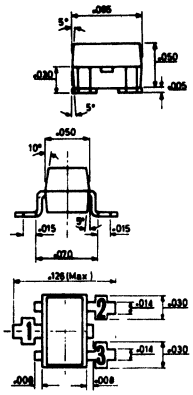
X151



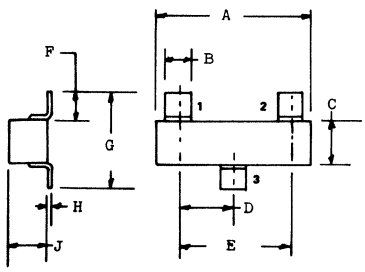
X153



X155

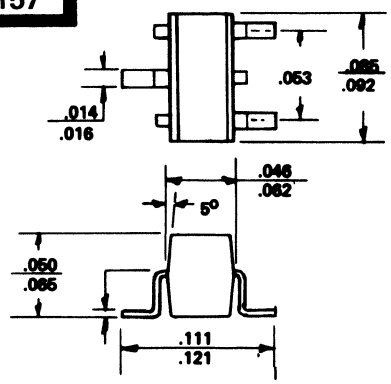


X156



	A	B	C	D	E	F	G	H	J
X156	.106 .114	.015	.043 .051	.037	.074	.019	.082 .090	.003 .007	.031
X156a	.113 .118	.015	.048 .051	.037	.074	.019	.098 MAX	.003	.043
X156b	.106 .125	.013 .019	.059	.037	.074	.013 .029	.086 .118	.003 .011	.039 .051
X156c	.112 .118	.014 .016	.047 .051	.037 .041	.074 .082			.003 .004	.033 .047
X156d	.110 .120	.015 .017	.047 .055	.035 .045	.070 .090	.018 .024	.083 .100	.003 .005	.034 .047
X156e	.114 MAX	.016 MAX	.051 MAX	.037	.074	.019	.098 MAX	.003	.033 MAX

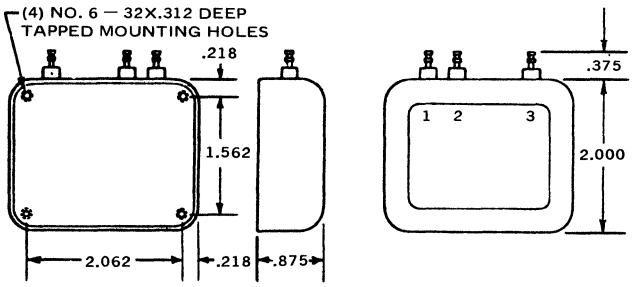
X157



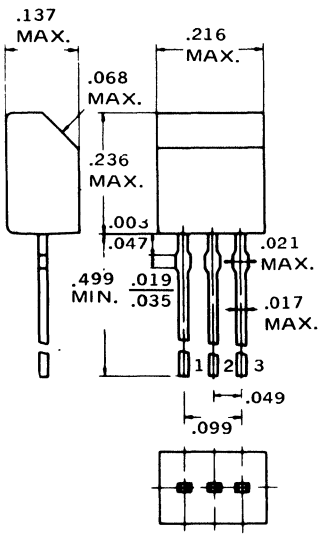
15. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

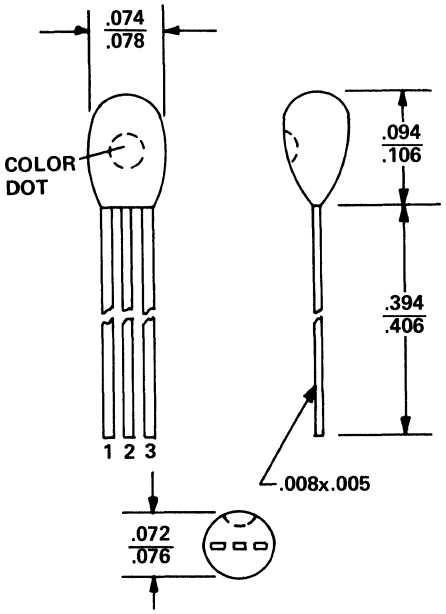
X171



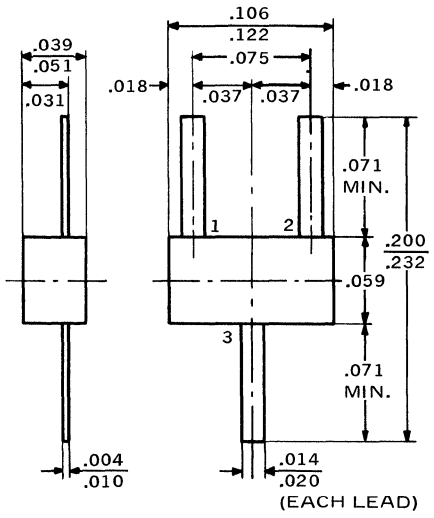
X172



X173



X174



Y200 SERIES

THE Y200 SERIES (Y200 & HIGHER) REPRESENTS THE TO200 SERIES, WITH THE PREFIX "TO" REPLACED BY "Y" FOR SPACE-SAVING PURPOSES. THESE DRAWINGS ARE LOCATED IN ORDER IN THE "TO" SERIES.

JEDEC "TO" DRAWING NOTES

10. 6-32NC-2A. Maximum pitch diameter of plated threads shall be basic pitch diameter (.1177,2.98MM). Reference (screw thread standards for federal services 1957) handbook H28-part 1.

11. Complete threads shall extend to within three threads of the seating plane and shall remain within tolerances to within two threads tip of stud.

12. Maximum (.019, .483MM) diameter leads and maximum (.230, 5.84MM) stud shoulder to within .007 (.178MM) radius of true location relative to the (.460, 11.68MM) diameter flange at a gauging plane .054 (1.37 MM) .001 (.025MM), - .000 (.000MM), from the reference plane.

13. Dimension does not include sealing flanges.

14. The outline contour with exception of hexagon is optional within zones or dimension specified.

15. Pitch diameter of 10-32 UNF-2A (coated) threads. (ASA B1.1-1960).

16. This terminal can be flatten and pierced or hook type.

17. Position of leads in relation to the hexagon is not controlled.

18. Pitch diameter - thread 1/4-28 UNF-2A (coated). Reference screw thread standards for federal services - handbook H-28 or ASA B1.1 - 1960.

19. Pitch diameter - thread 5/16-24 UNF-2A (coated). Reference (screw thread standards for federal services - handbook H-28 or ASA B1.1 - 1960).

20. Contour and orientation of fixed terminal lugs are optional.

21. Minimum flat.

22. Minimum diameter of seating plane.

23. A chamfer (or undercut) on one or both ends of hexagonal portion is optional.

24. Minimum difference in terminal lengths to establish datum line for numbering terminals.

25. Minimum spacing between terminals.

26. The device may be measured by direct methods or by the gage and gaging procedure described on gage drawing GS-1.

27. Four leads.

28. These dimensions should be measured at points .050 to .055 below seating plane. When gage is not used, measurement will be made at seating plane.

29. Two leads.

30. Insulation rundown.

31. Three leads.

32. (Insulated) locator pin.

33. Externally coated devices shall not have coating on the leads beyond this zone.

34. (All leads) Diameter is uncontrolled to .050 from seating plane and beyond minimum tolerance of lead length (1.5 or .5) from seating plane. Dim A applies between .050 and .250 from seating plane. Dim B applies between .250 and minimum tolerance of lead length from seating plane.

35. Four holes.

36. Four equally spaced feet to lie within this zone. Minimum distance between a lead and a foot .031.

37. Angular orientation of individual terminals is undefined.

JEDEC "TO" DRAWING NOTES

66. (Four leads). Maximum number of leads omitted in this outline, none (0). The number and position of leads actually present are indicated in the product registration. Outline designation determined by the location and minimum angular or linear spacing of any two adjacent leads.

67. (Four, six, ten, or twelve leads). Maximum number of leads omitted in this outline, one (1). The number and position of leads actually present are indicated in the product registration. Outline designation determined by the location and minimum angular spacing of any two adjacent leads.

68. Length of incomplete or undercut threads.

69. Lead diameter uncontrolled above the seating plane.

70. Contour and orientation of terminal flats are undefined.

71. The body and terminals of the device, with the exception of the extended lug length, lies within the cylinder defined by the dotted outline.

72. Pitch diameter of 1/2-20 UNF-2A (coated) threads (ASA-B1.1).

73. Leads missing from their designated positions shall also be counted when numbering leads for specific applications.

74. Lead spacing shall be measured within .030 (.762MM) from the point of emergence from the body.

75. Diameter of hole or width of slot out either side of terminals.

76. Lead dimensions uncontrolled in this zone to allow for body and lead finish irregularities.

77. Contour of the package beyond this zone is uncontrolled.

78. Seated height with lead bent at right angles.

79. Flexible leads for terminals 1 and 2 are identified by color coding for specific applications.

80. Pitch diameter of 3/4-16 UNF-2A (coated) threads (ASA B1.1).

81. Irregularity in body outline not controlled in this zone.

82. Terminal configurations optional between the body of the device and the flats on the terminals.

83. Visual or mechanical index is optional if one lead is omitted.

84. The body of the device with exception of the hexagon, thread, and flexible lead extensions lies within the cylinder defined by the dotted outline.

85. Pitch diameter of 1-12 UNF-2A (coated) threads. (ASA Bul. 1-1960)

86. The body of the device with the exception of heat sink and flexible leads lies within the cylinder defined by the dotted outline.

87. Pitch diameter of threads - 1/2-20 UNF2B (ASA Bul. 1-1960).

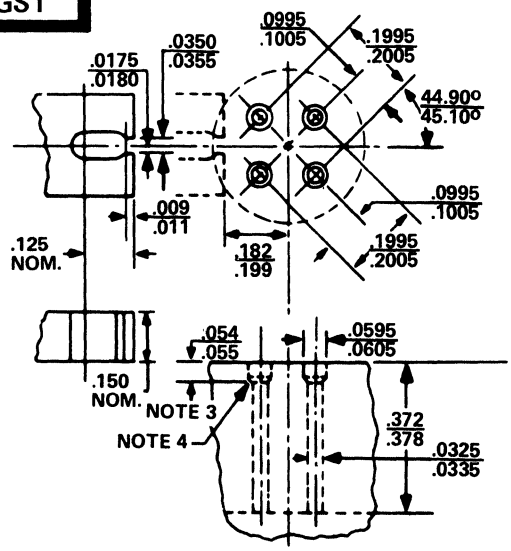
88. Parallel, twisted or coaxial flexible leads for terminals 1 and 2 are indentified by color for specific applications. Coaxial shielded lead has shield as terminal 2.

89. When dimensions less than .180 (4.58mm) are used, clearance in the second fin will be provided.

JEDEC GAUGE DESIGNATIONS

The Gauge Designations below are referenced in the JEDEC TO Outline Drawings

GS1



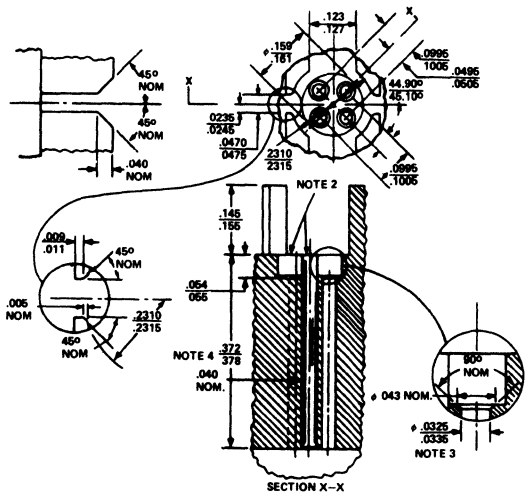
NOTES:

1. THE LOCATION OF THE TAB LOCATOR WITHIN THE LIMITS INDICATED WILL BE DETERMINED BY THE TAB AND FLANGE DIMENSIONS OF THE DEVICE BEING CHECKED.
2. THE FOLLOWING GAUGING PROCEDURE SHALL BE USED:

   THE DEVICE BEING MEASURED SHALL BE INSERTED UNTIL ITS SEATING PLANE IS .125" (3.18 MM) ± .010" (.254MM) FROM THE SEATING SURFACE OF THE GAUGE. A FORCE OF 8 ± .5 OZ. SHALL THEN BE APPLIED PARALLEL AND SYMMETRICAL TO THE DEVICE'S CYLINDRICAL AXIS. WHEN EXAMINED VISUALLY AFTER THE FORCE APPLICATION (THE FORCE NEED NOT BE REMOVED) THE SEATING PLANE OF THE DEVICE SHALL BE SEATED AGAINST THE GAUGE.

   THE USE OF A PIN STRAIGHTENER PRIOR TO INSERTION IN THE GAUGE IS PERMISSIBLE.
3. GAUGING PLANE.
4. DRILL ANGLE.

GS2



NOTE 1: THE FOLLOWING GAUGING PROCEDURE SHALL BE USED:

THE DEVICE BEING MEASURED SHALL BE INSERTED UNTIL ITS SEATING PLANE IS 0.125" ± .010" FROM THE SEATING SURFACE OF THE GAUGE. A FORCE OF 8 ± 0.5 OZ. SHALL THEN BE APPLIED PARALLEL AND SYMMETRICAL TO THE DEVICE'S CYLINDRICAL AXIS. WHEN EXAMINED VISUALLY AFTER THE FORCE APPLICATION (THE FORCE NEED NOT BE REMOVED) THE SEATING PLANE OF THE DEVICE SHALL BE SEATED AGAINST THE GAUGE.

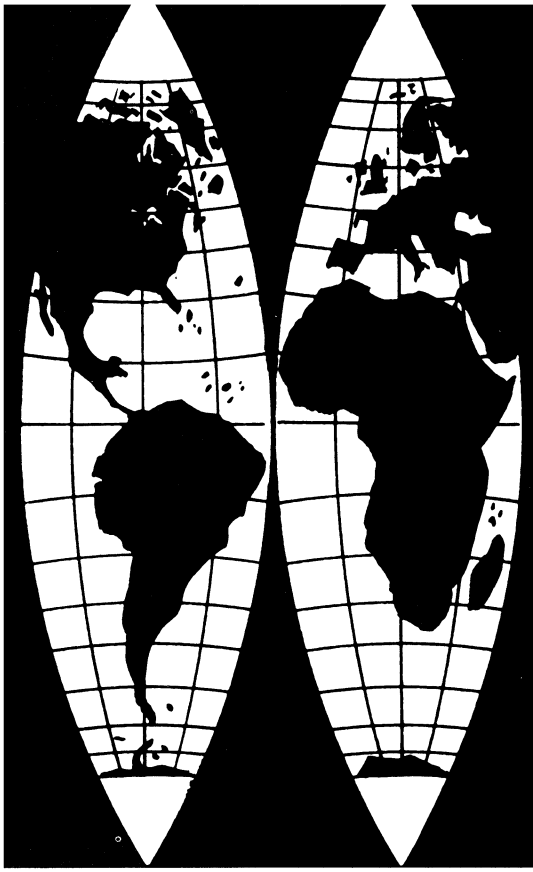
THE USE OF A PIN STRAIGHTENER PRIOR TO INSERTION IN THE GAUGE IS PERMISSIBLE.

A SPACER MAY BE USED TO OBTAIN THE 0.125" DISTANCE FROM THE GAUGE SEAT PRIOR TO FORCE APPLICATION.

NOTE 2: THESE SURFACES TO BE PARALLEL AND IN SAME PLANE WITHIN ± .001"

NOTE 3: FOUR HOLES.

NOTE 4: PRESSED IN.



SECTION 16.

TRANSISTORS

Manufacturers' Local Offices

These manufacturers have listed their local offices in this section for your convenience. Please contact the local office nearest you for any additional information you may need.

(MANUFACTURERS IN ORDER OF D.A.T.A.CODE LETTERS)

AEIL – AEI – SEMICONDUCTORS LIMITED

	Zip Code	Telephone No.	Telex
Carholme Road, Lincoln, England	LN1 1SG	0522-29992	56163

ALGG – AEG-TELEFUNKEN

	Zip Code	Telephone No.	Telex
Postfach 1109, Heilbronn, Germany	D7100	07131-8821	728746

CEN – CENTRAL SEMICONDUCTOR

			Zip Code	Telephone No.	TWX
DIVISION CENTRAL STATE INDUSTRIES, INC.					
148-B Lamar Street, West Babylon, New York			11704	516-643-1444	510-224-6493
INTERNATIONAL					
					Telex
ASIA	Hong Kong	45 Hillwood Road Kowloon		3-672429	73116
EAST EUROPE	Austria	Eurodia GmbH Walgasse 37 Vienna	A-1100	646224	01/2150

CRI – CRIMSON SEMICONDUCTOR, INC.

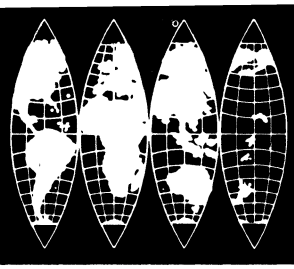
	Zip Code	Telephone No.	Telex
440 Park Avenue South, New York, New York	10016	212-686-7590	12319 EAST EUR NYK 422149 CRIM UI

CSI – CALVERT SEMICONDUCTORS, INC.

	Zip Code	Telephone No.	TWX
220 East 23rd Street, New York, New York	10010	212-481-5300	710-531-4088 Telex 223-415

CSR – CSR INDUSTRIES, INC.

	Zip Code	Telephone No.	TWX
35 Central Avenue, East Farmingdale, New York	11735	516-694-3404	510-224-6444



Manufacturers' Local Offices

FERB – FERRANTI LIMITED

			Zip Code	Telephone No.	Telex
Gem Mill, Chadderton, Oldham, Lancashire, England			OL9 8NP	061-624-0515	668038
GERMANY	8 Munich 22	Ferranti GmbH Widenmayerstrasse 5		089 293871	523980
UNITED STATES	New York	Ferranti Electric, Inc. East Bethpage Road	11803	516-293-8383	510-224-6483

FSC – FAIRCHILD SEMICONDUCTOR

	Zip Code	Telephone No.	TWX
DIVISION OF FAIRCHILD CAMERA & INSTRUMENT CORP.			
464 Ellis Street, Mountain View, California	94042	415-962-5011	910-379-6435 Cable FAIRSEMCO

GESY – GENERAL ELECTRIC COMPANY

	Zip Code	Telephone No.	TWX
SEMICONDUCTOR PRODUCTS DEPARTMENT			
Electronics Park, Bldg. 7, Room 230, Syracuse, New York	13201	315-456-3487	710-541-0498

EUROPE

					Telex
IRELAND	Dundalk	General Electric Marketing The Electronic Trading Company		Dundalk 2371 thru 2380	33816

GPD – GERMANIUM POWER DEVICES CORPORATION

	Zip Code	Telephone No.	Telex
Shetland Industrial Center, Bldg. 4 - York Street Post Office Box 65 - Shawsheen Village Station Andover, Massachusetts	01810	617-475-5982	94-7150 GPD ANDR

SEE OUR AD ON PAGE 202a

IDI – INTERNATIONAL DEVICES, INC.

SUBSIDIARY OF VSI CORPORATION
3370 Livonia Avenue, Los Angeles, California 90034 213-559-4741

			Zip Code	Telephone No.	Telex
ALABAMA TENNESSEE (Eastern)	Huntsville	K & E Associates 3313 Memorial Parkway, S.E. Suite 122	35801	205-883-9720	594421
ARIZONA UTAH	Phoenix	Cleveland Enterprises, Inc. 8902 North Central	85020	602-944-4670	
CALIFORNIA (Northern) NEVADA (Northern)	Los Altos	PM Sales Company 475 South San Antonio Road	94022	415-941-4444	
LOS ANGELES CTY. VENTURA CTY. ORANGE CTY.	Sherman Oaks	Astralonics 15300 Ventura Blvd. Suite 206	91403	213-990-5903	
COLORADO	Denver	Cleveland Enterprises of Colorado, Inc., 9700 East Iliff Suite H94	80231	303-751-3252	
FLORIDA	Clearwater	Chaco Sales 1409½ South Belcher Road	33516	813-536-9503	
GEORGIA NORTH CAROLINA SOUTH CAROLINA	Hartwell	K & E Associates Light Log Creek – Rt. 2	30643	404-376-5438	
ILLINOIS (Northern) WISCONSIN	Highland Park	Bransky Sales 1279 Lincoln Avenue, South	60035	312-433-2375	
MASSACHUSETTS NEW HAMPSHIRE MAINE RHODE ISLAND VERMONT	Needham	McCarthy Associates 58 Beaufort Avenue	02192	617-449-1472	

Continued on next page

KER – KERTRON, INC.

	Zip Code	Telephone No.	TWX
7516 Central Industrial Drive, Riviera Beach, Florida	33404	305-848-9606	510-952-7611

LTE – LANSDALE TRANSISTOR & ELECTRONICS, INC.

			Zip Code	Telephone No.	Telex
3600 West Osborn Road, Phoenix, Arizona			85019	602-269-6262	669-416
ALABAMA GEORGIA MISSISSIPPI TENNESSEE	Huntsville	REMCO 3322 South Memorial Parkway Suite 65	35801	205-883-9260	
CALIFORNIA	Los Altos	W. W. Posey Company, Inc. 895 Sherwood Avenue	94022	415-948-7771	
	San Diego	Van Gott & Associates Post Office Box 99989	92109	714-272-8452	
	San Gabriel	Van Gott & Associates 900 South San Gabriel Blvd.	91776	213-285-2148	
					TWX
COLORADO UTAH	Littleton	Lange Sales 1899 West Littleton Road	80120	303-795-3600	910-935-0824
CONNECTICUT	Southington	The Orion Group 22 Highwood Avenue	06489	203-621-5941	
FLORIDA AND CARIBBEAN	Maitland	Delmac Sales, Inc. Post Office Box 1425	32751	305-423-7562	
ILLINOIS	Chicago	Lansdale Transistor & Electronics Inc. (Regional Office) Post Office Box 41363	60641	312-685-5252	
ILLINOIS (North) WISCONSIN (East)	Barrington	Janus, Inc. 991 Bosworth Field	60010	312-381-4479	

Continued on next page

LTE — LANSDALE TRANSISTOR & ELECTRONICS, INC. (Cont'd)

			Zip Code	Telephone No.	Telex
3600 West Osborn Road, Phoenix, Arizona			85019	602-269-6262	669-410
NEW JERSEY (North) NEW YORK CITY	Jericho (New York)	J-Square Marketing, Inc. Post Office Box 103	11753	516-433-5330	TWX 510-222-1048
NEW YORK	Endwell	Tri-Tech Electronics, Inc. 3215 East Main Street	13760	607-754-1094	TWX 510-252-0891
	Fairport	Tri-Tech Electronics, Inc. 290 Perington Hills Office Park	14450	716-223-5720	
	Fayetteville	Tri-Tech Electronics, Inc. 6836 East Genesee Street	13066	315-446-2881	TWX 710-541-0604
	Jericho	J-Square Marketing, Inc. 11 Montgomery Place Box 103	11753	516-433-5330	TWX 510-222-1048
	Poughkeepsie	Tri-Tech Electronics, Inc. 15 Collegeview Avenue	12603	914-473-3880	
NORTH CAROLINA SOUTH CAROLINA	High Point	Engineering Devices Post Office Box 5067	27262	919-869-7200	
OHIO KENTUCKY PENNSYLVANIA (West) WEST VIRGINIA	Brunswick	Kimconics Sales, Inc. 4271 Center Road	44212	216-225-6111	
	Dayton (Ohio)	Kimconics Sales, Inc. 8459 North Main Street	45415	513-898-1783	TWX 810-472-2828
OREGON	Beaverton	L. D. Electronics Post Office Box 626	97005	503-649-6177	TWX 910-467-8713

Continued on next page

MATJ — MATSUSHITA - PANASONIC ELECTRIC CORPORATION OF AMERICA

	Zip Code	Telephone No.	TWX
ELECTRONIC COMPONENT DIVISION 1 Panasonic Way, Secaucus, New Jersey	07094	201-348-7276	710-992-5920

SEE OUR AD INSIDE FRONT COVER

MEHK — MICRO ELECTRONICS LTD.

			Zip Code	Telephone No.	Telex
38 Hung To Road, Kwun Tong, Kowloon, Post Office Box 9477				K-430181	HX 73510
ENGLAND	Middlesex	York House Empire Way Wembley		01-903-2721	934263
GERMANY	Munich	M. E. Micro Electronics GmbH		188 182 184 640	5216194
U. S. A.	California	Micro Electronics Corporation 3001 Redhill Avenue 3rd Floor - Room 207 Costa Mesa	92626	714-549-0375	TWX 910-595-1759

NSC – NATIONAL SEMICONDUCTOR CORPORATION

			Zip Code	Telephone No.	TWX
2900 Semiconductor Drive, Santa Clara, California			95051	408-732-5000	910-339-9240

SALES OFFICES AND REPRESENTATIVES

ALABAMA	Huntsville	National Semiconductor (Dixie Regional Office) 3322 Memorial Parkway, SW Suite 14	35801	205-881-0622	810-726-2207
		Interep Associates, Inc. 3322 Memorial Parkway, SW No. 67	35801	205-881-3677	
ARIZONA	Scottsdale	National Semiconductor (Rocky Mountain Regional Office) 7353 Sixth Avenue	85251	602-945-8473	910-950-1195
		Fred Board Associates Post Office Box 1906	85252	602-994-9388	910-950-1195
CALIFORNIA	Santa Clara	National Semiconductor (Northwest Regional Office) 1333 Lawrence Expressway Suite 258	95051	408-247-6397	910-338-0537
		Criterion Sales, Inc. 2225 J. Martin Avenue	95050	408-243-3600	
	Irvine	National Semiconductor (Area Office) 17870 Sky Park Circle No. 108	92714	714-957-1626	
	Sherman Oaks	National Semiconductor (Los Angeles Regional Office) Valley Freeway Center Building 15300 Ventura Boulevard Suite 405	91403	213-783-8272	910-495-1773
	San Diego	National Semiconductor (District Sales Office) 8333 Clairemont Mesa Boulevard	92111	714-565-8411	910-335-1566
		S. R. Electronics 10951 Sorrento Valley Road	92121	714-455-0300	910-335-1566
	Tustin	National Semiconductor (Southern California Regional Office) 17452 Irvine Boulevard Suite B	92680	714-832-8113	910-595-1523

Continued on next page

NSC – NATIONAL SEMICONDUCTOR CORPORATION (Cont'd)

			Zip Code	Telephone No.	TWX
2900 Semiconductor Drive, Santa Clara, California			95051	408-732-5000	910-339-9240
INDIANA	Indianapolis	National Semiconductor (North-Central Regional Office) Post Office Box 40073	46240	317-255-5822	810-341-3300
		Advanced Component Sales 5746 Brendon Way West Drive Post Office Box 26407	46226	317-545-6441	810-341-3233
	Fort Wayne	Advanced Component Sales 1010 Memorial Way Suite 1	46805	219-484-0722	810-332-1472
IOWA	Cedar Rapids	Gassner & Clark Company 1834 Blairs Ferry Road, NE	52402	319-393-5763	910-525-2051
MARYLAND	Glen Burnie	National Semiconductor (Capitol Regional Office) 95 Aquahart Road Suite 204	21061	301-760-5220	710-867-0508
		TRIMARK, Inc. 95 Aquahart Road Suite 204	21061	301-768-2800	710-867-0508
MASSACHUSETTS	Lexington	National Semiconductor (North-East Regional Office) 9 Meriam Street Suite 16	02173	617-861-6090	710-326-6979
		A/D Systems Sales, Inc. 594 Marrett Road	02173	617-861-6370	
MICHIGAN	Farmington Hills	National Semiconductor (District Sales Office) 27650 Farmington Road	48018	313-553-0600	810-242-2902
	Grand Rapids	Representative of Electronic Products 3501 Lake Eastbrook SE	49506	616-942-1320	
	Southfield	Representative of Electronic Products North Park Office Plaza 17117 West 9-Mile Road Suite 420	48075	313-559-1080	810-224-4976

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NSC — NATIONAL SEMICONDUCTOR CORPORATION (Cont'd)

			Zip Code	Telephone No.	TWX
2900 Semiconductor Drive, Santa Clara, California			95051	408-732-5000	910-339-9240
NORTH CAROLINA	Highpoint	Engineering Devices Corporation Post Office Box 5067	27262	919-869-7200	
OHIO	Highland Heights	National Semiconductor (East Central Regional Office) 19 Alpha Park	44143	216-461-0191	810-427-2972
		Micro-Tec, Inc. 19 Alpha Park	44143	216-461-0191	810-427-2972
	Columbus	Micro-Tec, Inc. 6076 Busch Blvd. Suite 3	43029	614-888-9761/2	
	Dayton	Micro-Tec, Inc. 1413 Acorn Drive	45419	513-294-6441	810-459-1615
OREGON	Beaverton	Vantage Corporation 3950 SW 102nd Street Suite 122	97005	503-646-3466	
PENNSYLVANIA	Fort Washington	National Semiconductor (Liberty Regional Office) 500 Office Center Drive	19034	215-628-8877	510-661-3986
	Huntington Valley	Omega Electronic Sales, Inc. 1 Fairway Plaza Philmont Avenue Red Lion Road Suite 210	19006	215-947-4135	510-665-5485
TEXAS	Dallas	National Semiconductor (South-Central Regional Office) 13773 North Central Expressway Suite 1132	75243	214-690-4552	910-867-4741
	El Paso	A. Q. Electronics 2211 East Missouri Street Suite N-218	79903	915-545-2363	
	Garland	Carter Associates, Inc. Post Office Box 87	75040	214-276-7151	910-860-5097
	Houston	Carter Associates Inc. ** 3701 West Alabama Street Suite 360	77027	713-621-6930	

** Applications Engineer Available

Continued on next page

PHIN – PHILIPS GLOEILAMPENFABRIEKEN

			Zip Code	Telephone No.	Cable
PRODUCT DIVISION ELCOMA Building BA, Eindhoven, Netherlands				(040) 79 11 11	PHILIPS EINDHOVEN
ARGENTINA	Buenos Aires	Fapesa I.y.C. Ave. Crovara 2550		652 3983	
AUSTRALIA	Lane Cove	Philips Industries, Ltd. Elcoma Division 67 Mars Road	2066 N.S.W.	42 1261	
AUSTRIA	Wien	Oesterreichische Philips Bauelemente Industrie G.m.b.H. Triesterstrasse 64	A1101	62 91 11	
BELGIUM	Bruxelles	M.B.L.E. 80 Rue des Deux Gares	B-1070	523 00 00	
BRAZIL	Sao Paulo, SP	Ibrape S.A. Av. Pualista 2073-S/ Loja	01311	278-7144	
CANADA	Scarborough (Ontario)	Philips Electronics Ltd. Electron Devices Division 601 Milner Avenue	M1B 1M8	416-292-5161	Telex 06-2221
DENMARK	København NV	Miniwatt A/S Emdrupvej 115A	DK-2400	(01) 69 16 22	
FINLAND	Helsinki 10	Oy Philips Ab Elcoma Division Kaivokatu 8	SF-00100	1 72 71	
FRANCE	Paris 11	R.T.C. (RTCF)* La Radiotechnique Compelec 130 Avenue Ledru Rollin	F-75540	355 44 99	

* Manufacturer Code inside ( ) can be found in Section 17, Manufacturers Code Names & Addresses

Continued on next page

PHIN — PHILIPS GLOEILAMPENFABRIEKEN (Cont'd)

			Zip Code	Telephone No.	Cable
PRODUCT DIVISION ELCOMA Building BA, Eindhoven, Netherlands				(040) 79 11 11	PHILIPS EINDHOVEN
NORWAY	Oslo 4	Electronica A/S Vitaminveien 11		(02) 150590	
SOUTH AFRICA	Johannesburg	EDAC (Pty.) Ltd. South Park Lane New Doornfontein	2001	24/6701	
SPAIN	Barcelona 7	Copresa S.A. Balmes 22		329 63 12	
SWEDEN	Stockholm 27	A.B. Elcoma Lidingövägen 50	S-10250	08/679780	
SWITZERLAND	Zurich	Philips A. G. Elcoma Abteilung Edenstrasse 20	CH-8027	01/44 22 11	
TAIWAN	Taipei	Philips Taiwan Ltd. Elcoma Diviaion San Min Bldg., 3rd Fl. 57-1 Chung Shan N. Road		57 13231	
UNITED KINGDOM	London	Mullard Ltd. (MULB)* Mullard House Torrington Place	WC1E7HD	01-580-6633	
UNITED STATES	Rhode Island	Amperex Electronic Corp. (APX)* Sem. & Microcircuits Division Providence Pike, Slatersville	02876	401-762-9000	TWX 710-387-1591

* Manufacturer Code inside ( ) can be found in Section 17, Manufacturers Code Names & Addresses

SCA – SEMICOA

			Zip Code	Telephone No.	TWX
333 McCormick Avenue, Costa Mesa, California			92626	714-979-1900	910-595-1961 Telex 678315
ARIZONA NEVADA (South) NEW MEXICO	Tempe	Delta Electronic Sales 1421 Steamboat Bend Drive	85283	602-838-5087	
CALIFORNIA (Northern)	Redwood	Logan Sales 463 Brewster Street	94063	415-369-6726	910-378-5928
CALIFORNIA (Southern)	Marina Del Rey	Westaironics 4676 Admiralty Way	90291	213-821-7958	910-343-7409
CALIFORNIA (Chips Only)	Long Beach	SEMI - DICE 5199 East Pacific Coast Highway Suite 303A	90804	213-597-0358	
FLORIDA	Satellite Beach	Reynolds & Associates 476 North A1A Suite No. 1	32937	305-773-4700	
ILLINOIS IOWA WISCONSIN (South)	Park Ridge	Metcom Associates Two Talcott Road	60068	312-696-1490	910-253-5941
INDIANA	Carmel	Rich Electronic Marketing 240 South Rangeline Road Suite 8	46032	317-844-8462	810-260-2631
MARYLAND DIST. OF COLUMBIA VIRGINIA	Baltimore	Conroy Sales 31 Allegheny	21204	301-296-2444	
MASSACHUSETTS CONNECTICUT MAINE NEW HAMPSHIRE RHODE ISLAND VERMONT	Burlington	Contact Sales, Inc. 101 Cambridge Street	01803	617-273-1520	710-332-6569
MINNESOTA NORTH DAKOTA SOUTH DAKOTA WISCONSIN (North)	Minneapolis	Furber Sales Company 1501 West 80th Street	55431	612-881-3620	

Continued on next page

SCE — SEMICONDUCTOR COMPONENTS, INC.

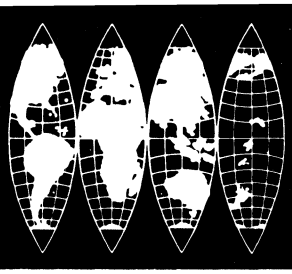
	Zip Code	Telephone No.
1353 East Edinger Street, Santa Ana, California	92705	714-547-6059 714-547-9389

SEI — SEMICONDUCTORS, INC.

	Zip Code	Telephone No.
542 Industrial Way West, Eatontown, New Jersey	07724	201-842-9111

SEN — SENSITRON SEMICONDUCTOR

	Zip Code	Telephone No.	Telex
DIV. RSM ELECTRON POWER CORPORATION 221 West Industry Court, Deer Park, New York	11729	516-586-7600	96-7737



Manufacturers' Local Offices

SGAI – SGS-ATES COMPONENTI ELETTRONICI S.P.A.

			Zip Code	Telephone No.	Telex
Via C. Olivetti 2, Agrate Brianza, Italy			20041	039-650141	36131
ENGLAND	Aylesbury Bucks	SGS-ATES (United Kingdom) Ltd. Walton Street		5977	83245
FRANCE	Paris Cedex 13	SGS-ATES France SA Residence "Le Palatino" 17, Avenue de Choisy	75643	584 2730	0/25938
GERMANY	Wasserburg (Inn)	SGS-ATES Deutschland GmbH Postfach 1269	809	08071/721	05-25143
ITALY	Milano	SGS-ATES Componenti Elettronici S.p.A. Via Tempesta 2	20149	4695651	31481
SINGAPORE	Singapore	SGS-ATES Singapore (PTE) Ltd. Lorong 4 and 6 Toa Payoh	12	531411	21412
SWEDEN	Marsta	SGS-ATES Scandinavia AB Tingvallavagen 9J Box 30	19501	0760/40120	10932
U. S. A.	Massachusetts	SGS-ATES Semiconductor Corporation 79 Massasoit Street Waltham	02154	617-891-3710	923495

SLD – SOLID STATE INDUSTRIES, INC.

	Zip Code	Telephone No.	Telex
1060 Thomas Jefferson Street, N.W., Washington, D. C.	20007	202-338-3150	64100 SOLIDSTA

Factories in:

CONNECTICUT – Hamden
FLORIDA – Riviera Beach
NEW JERSEY – Linden
MALAYSIA – Kuala Lumpur
HONG KONG – Macao
TAIWAN – Taipei

SPC — SOLID POWER CORPORATION

	Zip Code	Telephone No.	TWX
440 Eastern Parkway, Farmingdale, New York	11735	516-694-2883	510-224-6582

SPE — SPACE POWER ELECTRONICS, INC.

	Zip Code	Telephone No.	TWX
Jeffrey Lane, R.D. 1, Glen Gardner, New Jersey	08826	201-537-2184/5	510-235-4290
(CUSTOM DEVICES AVAILABLE)			

SPR — SPRAGUE ELECTRIC COMPANY

	Zip Code	Telephone No.	Telex
SEMICONDUCTOR DIVISION			
50 Pembroke Road, Concord, New Hampshire	03301	603-224-1961	943346

SSI — SOLID STATE DEVICES, INC. (Cont'd)

			Zip Code	Telephone No.	TWX
14830 Valley View Avenue, La Mirada, California			90638	213-921-9660	910-583-4807
MICHIGAN	Warren	DEM Electronics Sales 30833 Hoover Road	48093	313-575-9444	810-226-8015
MINNESOTA IOWA NORTH DAKOTA SOUTH DAKOTA	Minneapolis	Bitronic Sales Company, Inc. 4565 West 77th Street Suite 125	55435	612-835-7744	910-576-1158
NEW JERSEY NEW YORK	Wallington	Comp-Tech Sales 437 Paterson Avenue	07057	201-935-5454	710-989-0270
NEW YORK (Upstate)	Rochester	ONTEC 474 Thurston Road	14619	716-464-8636	510-253-3841
OHIO	Englewood	Daytech Sales 477 East Wenger Road	45322	513-836-8633	
WASHINGTON OREGON	Seattle	James J. Backer 221 West Galer	98119	206-285-1300	910-444-1646

INTERNATIONAL

CANADA	LaSalle (Quebec)	Electrodesign 840 La Fleur Avenue	H8R 3H9	514-363-5120	Telex 01-26241
FRANCE	Asnieres	ASSINEL 99 Rue Gilbert Rousset	92600	790-8028	Telex PRODEF 204226F
GERMANY	D-605 Offenbach AM MAIN	Neutron GmbH Postfach 124		0611-85 36 38	Telex 841-4185414
ISRAEL	Tel Aviv	STG International Ltd. 52 Nachlat Benyamin Street Post Office Box 1276		922-032229	

STC – SILICON TRANSISTOR CORPORATION (Cont'd)

			Zip Code	Telephone No.	TWX
(Includes the KSC Semiconductor Subsidiary)					
Katrina Road, Chelmsford, Massachusetts			01824	617-256-3321	710-343-0576
FIELD REPRESENTATIVES (Cont'd)					
FLORIDA	Ft. Lauderdale	Perrott Associates Post Office Box 15067	33318	305-792-2211	510-955-9831
	Largo	Perrott Associates 511 Rosery Road, N.E.	33540	813-585-3327	810-866-0328
	Orlando	Perrott Associates 1607 Forsyth Road	32807	305-275-1132	810-850-0103
ILLINOIS	Des Plaines	Coombs Associates 1001 East Touhy	60018	312-298-4830	910-233-5980
KANSAS	Overland Park	Advanced Technical Sales 9290 Bond	66214	913-492-4333	
MARYLAND	Ellicott City	Marketing Technology, Inc. 3600 St. John's Lane	21043	301-465-5944	
MASSACHUSETTS	Lexington	John E. Boeing Company Post Office Box 5	02173	617-862-2500	710-326-1774
MICHIGAN	Novi	A. P. Associates 39550 Grand River	48050	313-476-2300	
MINNESOTA	St. Paul	Cahill Associates 315 North Pierce	55104	612-646-7217	910-563-3737
MISSOURI	Earth City	Advanced Technical Sales 4354 Riverline Drive	63045	314-739-4048	
NEW JERSEY	Clifton	Compar New York, Inc. 404 Clifton Avenue	07011	201-546-3660	710-989-7239
NEW YORK	North Syracuse	Advanced Components Corporation Post Office Box 276	13212	315-699-2671	710-541-0439
OHIO	Richfield	Bear Marketing, Inc. 3623 Bricksville Road	44286	216-659-3131	810-427-9100

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Continued on next page

STI – SEMICONDUCTOR TECHNOLOGY, INC.

	Zip Code	Telephone No.	TWX
124-14 22nd Avenue, College Point, New York	11356	212-445-4466	710-582-2571

INTERNATIONAL

ENGLAND	Kent	Diran Semicon Limited Post Office Box 87 Chislehurst	BR7 6SE	Orpington 25105	

SWT – SWAMPSCOTT ELECTRONICS COMPANY

	Zip Code	Telephone No.
41 Spinale Road, Swampscott, Massachusetts (Custom and selected devices available)	01907	617-598-4116

TAGS – TAG SEMICONDUCTORS LTD.

	Zip Code	Telephone No.	Telex
Hohlstrasse 610, Zurich, Switzerland	8048	62 5611	53809

THCF — THOMSON - CSF (Cont'd)

DIVISION SEMICONDUCTEURS SESCOSEM

			Zip Code	Telephone No.	Telex
50 Rue Jean Pierre Timbaud, BP 120, Courbevoie, France			F-92403	788-50-01	SESCOM 61560F
GERMANY	Munchen 25	Thomson-CSF GmbH Fallstrasse 42	D-8000	89 76 751	522 916
ITALY	Milano	Sescosem Italiana Via Melchiorre Gioia, 72	I-20125	68 84 141	36301 Ducati
MOROCCO	Casablanca	SFRM 40 Blvd. de la Resistance Palais Mirabeau		279100-279123	21924
NORWAY	Oslo 6	Feiring AS Post Office Box 101 Bryn		(2) 686360	16 435
PORTUGAL	Lisbon	Sd. Com Rualdo Rua S. Jose 15		P.P.C. 33725	16447 Rualdo Lisbonne
SPAIN	San Juan Despi (Barcelona)	Componentes Electronicos S.A. Poligono Industrial, Fontsanta Calle, H.S./N		319.46.50	53077
SWEDEN	Solna 3	Elektrholm AB Dalvagen 12	S-17 103	82.02.80	19.389
SWITZERLAND	Berne 9	Modulator S. A. Fischerweg 11.13	CH3000	23 21 42	32.431
U. S. A.	California	Nucleonic Products Company, Inc. 6660 Variel Avenue Canoga Park	91303	(213) 887-1010	651.479

UPI — UPI SEMICONDUCTOR (Cont'd)

			Zip Code	Telephone No.	TWX
DIVISION UNITED-PAGE, INC. 481 Getty Avenue, Paterson, New Jersey			07053	NJ 201-279-7500 NY 212-736-9351	710-988-5917 Cable UNIPAGE
NEW JERSEY (Northern)	Westwood	R. C. Associates 387 Colonial Blvd.	07675	201-664-1241	
NEW JERSEY (Southern) DELAWARE MARYLAND PENNSYLVANIA (Eastern) WASHINGTON D.C.	Glenside	Raymond F. Koebert & Associates Post Office Box 61	19038	215-887-2310	
OHIO (Northern) MICHIGAN (Southern)	Cleveland	KRW Sales 3906 Theota Avenue	44134	216-741-4711	
	Dayton	KRW Sales 310 Marsha Jeanne Way	45459	513-885-3330	
PENNSYLVANIA	Oakmont	KRW Sales 227 Allegheny Avenue	15139	412-243-2284	

WESY — WESTINGHOUSE ELECTRIC CORPORATION

			Zip Code	Telephone No.	TWX
SEMICONDUCTOR DIVISION Youngwood, Pennsylvania			15697	412-925-7272	510-468-2840
INTERNATIONAL					
FRANCE (European Headquarters)	Le Mans	CDS Westinghouse Avenue G. Durand	72003	(43) 84.33.40	Telex 842-720040

SECTION 17 MANUFACTURERS CODES, NAMES & ADDRESSES

(Manufacturers in order of D.A.T.A. code letters)

QPL MFR. DESIG.	FSCM No.	DATA MFRS.' CODE		
		IDC	–	**International Diode Corp., 229 Cleveland Ave., Harrison, NJ 07029**
	53763 –	**IDI**	*–	**International Devices, Inc., 3370 Livonia Ave., Los Angeles, CA 90034**
		IMTM #	–	Industria Mexicana Toshiba, S.A., Calzada de Guadalupe 303, Cuautitlan, Edo. de Mexico, Mexico
	32293 –	INL	*–	Intersil, Inc., 10900 North Tantau Ave., Cupertino, CA 95014
		INR	*–	International Rectifier, Semiconductor Div., 233 Kansas St., El Segundo, CA 90245
	17884 –	INTG	–	Intermetall, Halbleiterwerk der Deutsche ITT Ind. GmbH, 78 Freiburg im Breisgau, Hans-Bunte-Strasse 19, Germany
CIT –	15238 –	ITT	–	ITT Semiconductors, 74 Commerce Way, Woburn, MA 01801
		ITTB	–	ITT Semiconductors, Maidstone Rd., Footscray, Sidcup, Kent, England
		KER	–	**Kertron, Inc., 7516 Central Ind. Dr., Riviera Beach, FL 33404**
		LTE	*–	**Lansdale Transistor & Electronics, Inc., 3600 W. Osborn Rd., Phoenix, AZ 85019**
	18822 –	LTTF	–	S. A. L. T. T., 78702 Conflans Ste. Honorine, France
		LUCB	–	**Lucas Electrical Co., Ltd., E & S Div., Mere Green Rd., Sutton Coldfield, West Midlands, B75 5BN, England**
		MAL	–	Mallory Distributor Products, P.O. Box 1284, Indianapolis, IN 46206
	01619 –	**MATJ**	*–	**Matsushita Electronics Corp., Kotari Yakemachi 1, Nagaokakyo City, Kyoto, Japan**
		MEHK	*–	**Micro Electronics Ltd., 38 Hung To Rd., Kwun Tong, Kowloon, Hong Kong**
		MIC	★	Microwave Associates, Inc., Semiconductor Products, Burlington, MA 01803
		MISI	*–	SESCOSEM Italiana, Via Melchiorre Gioia, 72, 20125 Milano, Italy
	90144 –	MITJ	–	Mitsubishi Electric Corp., Kita-Itami Works, 4-1 Mizuhara, Itami-shi, Hyogo-ken, Post Code 664, Japan
CGG –	04713 –	MOTA	*–	Motorola Semiconductor Products, 5005 E. McDowell Rd., HO500, Phoenix, AZ 85008
CCWV –	92726 –	MULB	*–	Mullard Ltd., Mullard House, Torrington Place, London WC1E 7HD, England (also under PHIN, Sec. 16)
		MWS	*–	Microwave Semiconductor Corp., 100 Schoolhouse Rd., Somerset, NJ 08873
		NASB	*–	**North American Semiconductor Co., Inc., 3072 Scott Blvd., Santa Clara, CA 95050**
	94091 –	NECJ	*–	Nippon Electric Co., Ltd., 1753 Shimonumabe, Nakahara Ku, Kawasaki City, Japan
		NJS	*–	New Jersey Semiconductor Products Co., Inc., 20 Commerce St., Springfield, NJ 07081
	08257 –	**NPC**	*–	**Nucleonic Products Co., Inc., 6660 Variel Ave., Canoga Park, CA 91303**
CCXP –	27014 –	**NSC**	*–	**National Semiconductor Corp., 2900 Semiconductor Dr., Santa Clara, CA 95051**
		NTLB	*–	Newmarket Transistor, Ltd., Exning Rd., Newmarket, Cambridge, England
		NTR	*–	**National Transistor Corp., 1033 No. Fairoaks Ave., Sunnyvale, CA 94086**
		PHIB	*–	Philco Radio Television Ltda., Rua Sta. Virginia, 299, Tatuape, Sao Paulo, Cx. Postal 4753, Brasil
	36204 –	PHIC	*–	Philips Electronics Ltd., Electron Devices Div., 601 Milner Ave., Scarborough, Ontario, Canada

★ **New Manufacturers**

* See Section 18 for Manufacturers Logos

CODE CHANGES THIS EDITION

Old: DETM – Delsa-Toshiba, S.A.
New: IMTM – Industria Mexicana Toshiba, S.A.

Manufacturers shown in bold print have local offices which are included in SECTION 16

SECTION 17 MANUFACTURERS CODES, NAMES & ADDRESSES

QPL MFR. DESIG.	FSCM No.	DATA MFRS.' CODE		
	11911 –	SSE	–	Solid State Electronics Co., 15321 Rayen St., Sepulveda, CA 91343
CDVL –	30043 –	**SSI**	* –	**Solid State Devices, Inc., 14830 Valley View Ave., La Mirada, CA 90638**
		SSS	* –	Solid State Scientific, Inc., Montgomeryville Industrial Center, Montgomeryville, PA 18936
		SST	* –	**Solid State, Inc., 46 Farrand St., Bloomfield, NJ 07003**
CCSX –	07256 –	**STC**	* –	**Silicon Transistor Corp., Katrina Rd., Chelmsford, MA 01824**
		STI	* –	**Semiconductor Technology, Inc., 124-14 22nd Ave., College Point, NY 11356**
		STL	–	Stow Laboratories, Inc., Kane Industrial Dr., Hudson, MA 01749
		STR	* –	Syntar Industries, Inc., 20 Jerusalem Ave., Hicksville, NY 11801
		SWT	–	**Swampscott Electronics Co., 41 Spinale Rd., Swampscott, MA 01907**
		TADI	–	Tadiran, Israel Electronics Industries, Ltd., 3 Derech Hashalom (P.O. Box 648), Tel-Aviv 61000, Israel
		TAGS	* –	**TAG Semiconductors Ltd., Hohlstrasse 608/610, CH-8048, Zurich, Switzerland**
		TCY	–	Teledyne Crystalonics, Inc., 147 Sherman St., Cambridge, MA 02140
CCAB –	03877 –	TEC	–	Transitron Electronic Corp., 168 Albion St., Wakefield, MA 01880
		THCF	–	**Thomson CSF, Div. Semiconducteurs, SESCOSEM, 50, rue Jean Pierre Timbaud, BP120, 92403 Courbevoie, France**
		TIC	* –	Transistor International Corp., 1406 Watertower Rd., P.O. B. 12685, Lake Park, FL 33403
CGO –	01295 –	TII	* –	Texas Instruments, Inc., Semicon. Group, Mail Station 84, P.O. Box 5012, Dallas, TX 75222
CGO –	01295 –	TIIB	–	Texas Instruments, Ltd., Manton Lane, Bedford, England
		TIIC	–	Texas Instruments, Inc., 280 Center St., E. Richmond Hill, Ontario, Canada
		TIID	–	Texas Instruments Deutschland GmbH, 8050 Freising, Haggertystrasse 1, Germany
		TIIF	–	Texas Instruments France, S.A., 06 Villeneuve-Loubet, A.M., France
	18657 –	TOSJ	–	Tokyo Shibaura Electric Co., Ltd., 72 Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa-ken, Japan
CCNL –	01281 –	TRW	–	TRW Semiconductors, Inc., 14520 Aviation Blvd., Lawndale, CA 90260
		TSAJ	* –	Tokyo Sanyo Electric Co., Ltd., Semiconductor Div., Oizumimachi, Oragun, Gumma, Japan
CDAQ –	15818 –	**TSC**	* –	**Teledyne Semeconductor, 1300 Terra Bella Ave., Mountain View, CA 94043**
	54485 –	TSI #	* –	Transistor Specialtys, Inc., 484 Lowell St., Peabody, MA 01960
		UNI	* –	Unitrode Corp., 580 Pleasant St., Watertown, MA 02172
	33428 –	**UPI**	* –	**UPI Semiconductor, Div. of United-Page, Inc., 481 Getty Ave., Paterson, NJ 07503**
		USSR	–	V/O Electronzagranpostavka, 24/2 Usievicha, Moscow 125315, U.S.S.R.
		UTS	* –	Uni-Tran Semiconductor Corp., R.D. 2, Lake Ariel, PA 18436
	17895 –	VALG	–	Valvo GmbH, P.O. Box 993, D2000, Hamburg 1, Germany (under PHIN, Sec. 16)
		WAB	* –	Walbern Devices, Inc., 1818 E. Elizabeth Ave., Linden, NJ 07036
CAY –	05277 –	**WESY**	* –	**Westinghouse Electric Corp., Semiconductor Dept., Youngwood, PA 15697**

★ **New Manufacturers**

* See Section 18 for Manufacturers Logos

Manufacturers shown in bold print have their local offices which are included in SECTION 16

CODE CHANGES THIS EDITION

Old: TRS – Transistor Specialtys, Inc.
New: TSI – Same

18. MANUFACTURERS LOGOS

IN MFR. CODE ORDER

ESE — Elm State Electronics Inc.	ETC — Electronic Transistors Corp.	FCAJ — Fujitsu Ltd.
FERB — Ferranti Ltd.	FSC — Fairchild Semiconductor	GESY — General Electric Co.
GIC — General Instrument Corp.	GPD — Germanium Power Devices Corp.	GSE — General Semiconductor Industries Inc.
	GTC — General Transistor Corp.	

18. MANUFACTURERS LOGOS

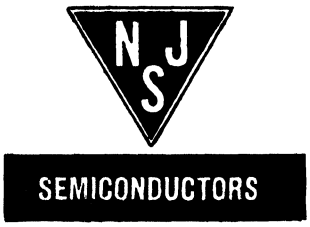
IN MFR. CODE ORDER

MULB – Mullard Ltd.

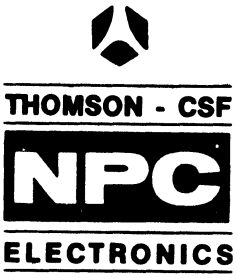
MWS – Microwave Semiconductor Corp.

NASB – North American Semiconductor Co.

NECJ – Nippon Electric Co., Ltd.



NJS – New Jersey Semiconductor Products Co., Inc.



NPC – Nucleonic Products Co., Inc.

NSC – National Semiconductor Corp.

NTLB – Newmarket Transistor Ltd.

NTR – National Transistor Corp.

PHIB – Philco Radio Television Ltda.

18. MANUFACTURERS LOGOG

IN MFR. CODE ORDER

SEN — Sensitron Semiconductors	SGAI — SGS-ATES Componenti Eletrronici	SHEJ — Shindengen Electric Mfg. Co., Ltd.
SIEG — Siemens AG	SIX — Siliconix Inc.	SLCB — Semitron Ltd.
SOD — Solitron Devices Inc.	SONY — Sony Corporation	SPC — Solid Power Corp.
	SPE — Space Power Electronics Inc.	

18. MANUFACTURERS LOGOS

IN MFR. CODE ORDER

TII — Texas Instruments Inc.	TSAJ — Tokyo Sanyo Electric Co.	TSC — Teledyne Semiconductor
TSI — Transistor Specialtys Inc.	UNI — Unitrode Corp.	UPI — UPI Semiconductor
UTS — Uni-Tran Semiconductor Corp.	WAB — Walbern Devices Inc.	WESY — Westinghouse Electric Corp.

6. SILICON FIELD EFFECT TRANSISTORS - P CHANNEL
7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	2 TYPE No.	1 MAX DEVICE DISS @25°C (W)	MAX Vp @ Id=0 (V)	& Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	TEST COND Vgs (V)	Vds (V)	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUC-TURE	DWG #L Y200 s/a TO200 Ser.	C O A D D E
•	•▲ 2	3	4	5	6	7			10	11	12	13	14	15	16	17	18		20	21		•

2
- ▼– Matched type, also listed in Section 14, Category 6
- ♦ – Phototransistor

NOTE: For dual gate devices, Gate 1 specifications apply.

3
- Δ– With infinite heat sink
- † – Above 25°C; for additional information, consult manufacturer.

4
- † – V_{GS} (Cut Off)
- Δ– V_{GST} (Threshold)
- %– Typical
- # – Minimum

5
- Δ– Depletion Mode, Type A
- $– Depletion-Enhancement Mode, Type B
- * – Enhancement Mode, Type C

6
- Δ– BV_{DSO}
- † – BV_{DSX}

7
- Δ– BV_{DGO}

10
- Δ– I_{DSS} @ V_{GS} = 0 and $V_{DS} \approx V_P$
- Ø – $V_{GS} > 0$
- # – Minimum
- * – Typical
- % – Pulsed

11
- Δ– I_{GDO}

12
- Ø– I_D in mA

13
- Δ– V_{GD}
- † – V_{DG}

14
- Δ– Typical
- † – Pulsed

15
- % – High frequency (V_{fs})
- ☑ – Y_{FS}
- § – g_{fg}

16
- Δ– Y_{is}
- § – Y_{og}
- † – Not at given test conditions
- % – Maximum
- * – Pulsed

17
- % – Maximum
- Δ – Not given at test conditions
- † – $R_{DS\ (on)}$ at V_{DS} = 0

18
- # – C_{iss} (Output Shorted)
- Δ– C_{dgs}
- % – Not given at test conditions
- * – Typical
- ☑ – C_{dss}
- Ø – C_{dgo}
- § – C_{igs}
- $ – C_{rss}
- † – C_{gss}

20
- A – Ambient
- C – Case
- J – Junction
- S – Storage

21 STRUCTURE
- D – Diffused
- E – Epitaxial
- Ge – Germanium
- PE – Planar Epitaxial
- PL – Planar
- H – Hometaxial
- # – Junction type
- * – Insulated gate (MOS type)
- § – Matched pair
- Δ – Switching, other uses
- ☑ – Chopper, other uses
- Ø – Noise figure 8db or below
- † – Plastic package
- $ – Tetrode
- % – Insulated gate (MNOS type)
- ♦ – Diode protected gates

• SEE SYMBOLS AND CODES COMMON TO MORE THAN ONE SECTION

▲ SEE TYPE No. SYMBOLS & CODES AT TOP OF 1st CARD

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

TYPE NO.
† – Switching type, also listed in Section 12
∅ – Chopper, also listed in Section 14, Category 10
* – These types also included elsewhere with other characteristics. See Type No. Cross Index for alternate line number.
§ – Radiation resistant devices, also listed in Section 14, Category 13.

ENGLISH-RUSSIAN ALPHABET TRANSLITERATION FOR USSR TYPES

ENGLISH	RUSSIAN	ENGLISH	RUSSIAN
A	А	L	Л
B	Б	M	М
V	В	N	Н
G	Г	O	О
D	Д	P	П
E	Е	R	Р
SZ	Ж	S	С
I	И	T	Т
K	К	U	У

STRUCTURE
(All Sections except 6 & 7)

A – Alloy
AN – Amular
D – Diffused or Drift
DM – Diffused Mesa
E – Epitaxial
EA – Epitaxial Amular
EM – Epitaxial Mesa
F – Fused
G – Grown
GA – Gallium Arsenide
H – Hometaxial
MA – Micro Alloy
MD – Micro alloy Diffused
ME – Mesa
MOS – Metal Oxide Silicon
PA – Precision Alloy
PC – Point Contact
PD – Precision alloy Diffused
PE – Planar Epitaxial
PL – Planar
S – Surface barrier
* – Matched pair
△ – Switching, other uses
☑ – Chopper, other uses
∅ – Noise figure 8db or below
† – Plastic package
% – Overlay
# – Radiation resistant device
$ – Tetrode

LINE NO.
▼ – New Type
♦ – Revised Specifications
– Non-JEDEC type manufactured outside U.S.A.

LEAD CODE
See Lead Code Identification Guide at end of Section 15.

THESE TYPES ALSO INCLUDED ELSEWHERE WITH OTHER CHARACTERISTICS
SEE TYPE NO. CROSS INDEX FOR ADDITIONAL PAGE & LINE NO.

12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CODE
●	● ▲	3	4	5	6	7	8	9	10	11	12	13	14	15	● 16	17		●

3 † – $f_{\alpha e}$
§ – Gain Bandwidth product (f_T)
* – Maximum frequency of oscillation
∅ – Figure of merit (frequency for unity power gain)
– Rated operating frequency
△ – Minimum
☑ – Maximum

4 $ – Charge storage time constant
5 ▼ – Stored base charge – picocoulomb
♦ – Total switching time
∅ – $T_{on} = t_r + t_d$
† – Typical value

6 ∅ – $T_{off} = t_s + t_f$
7 † – Typical value
* – $T_{on} + T_{off} = td + tr + tf + ts$

8 ∅ – With infinite heat sink
The following symbols indicate temperature at which derating starts:
† – 40°C
* – 45°C
# – 50°C
☑ – 60°C
§ – 70°C
♦ – 80°C
$ – 100°C or greater
△ – Pulsed

9 ∅ – V_{CE}

10 ∅ – I_C
△ – I_B

11 † – h_{fe}
– Pulsed
△ – Minimum
☑ – Maximum
* – Available to selected range narrower than indicated
§ – Y_{fs} in millimho (FETs only). Bias values are V_{DS} and I_D.

12 § – R_{on} (FETs only)
– Pulsed
▼ – Typical value

13 ☑ – Maximum
$ – C_{cb}
§ – C_{iss} (FETs only)

14 † – r'_{bb}

15 N – NPN or "N" channel
P – PNP or "P" channel
§ – Field effect transistor

16 Ge – Germanium
Si – Silicon

17 A – Ambient
C – Case
J – Junction
S – Storage

● SEE SYMBOLS AND CODES COMMON TO MORE THAN ONE SECTION

▲ SEE TYPE No. SYMBOLS & CODES AT TOP OF 1st CARD

TECHNICAL TERM DEFINITIONS

B — Illumination intensity.

BV_{CBO} / $V_{(BR)CBO}$ — Breakdown voltage, collector-to-base; emitter open-circuit.

BV_{CEO} / $V_{(BR)CEO}$ — Breakdown voltage, collector-to-emitter, base open-circuit

BV_{CER} / $V_{(BR)CER}$ — Breakdown voltage, collector-to-emitter; with specified base-to-emitter resistance.

BV_{CES} / $V_{(BR)CES}$ — Breakdown voltage, collector-to-emitter; with base short-circuit to emitter.

BV_{CEX} / $V_{(BR)CEX}$ — Breakdown voltage, collector-to-emitter; with specified circuit between base and emitter.

BV_{DGO} / $V_{(BR)DGO}$ — Breakdown voltage, drain-to-gate; source open circuit (FET).

BV_{DSX} / $V_{(BR)DSX}$ — Breakdown voltage, drain-to-source; with specified circuit between gate and source (FET).

BV_{EBO} / $V_{(BR)EBO}$ — Breakdown voltage, emitter-to-base; collector open-circuit.

BV_{GD} / $V_{(BR)GD}$ — Breakdown voltage, gate-to-drain (FET).

BV_{GDS} / $V_{(BR)GDS}$ — Breakdown voltage, gate-to-drain; with source short-circuit to drain (FET).

BV_{GSS} / $V_{(BR)GSS}$ — Breakdown voltage, gate-to-source, with drain short-circuit to source (FET).

C_{ob} — Output capacitance with input AC open-circuit, common base.

C_{iss} — Small-signal, short-circuit input capacitance, common source (FET).

C_{rss} — Magnitude of small-signal, short-circuit reverse transfer capacitance, common source (FET).

f_{α_b} / f_{hfb} — Small-signal short-circuit forward current transfer ratio cut off frequency, common base (alpha cut off frequency).

f_{α_e} / f_{hfe} — Small-signal short-circuit forward current transfer ratio cut off frequency, common emitter (beta cut off frequency)

f_t — Extrapolated unity gain frequency (gain bandwidth product). Product of the common-emitter current transfer ratio and the frequency of measurement at a frequency where the current gain is decreasing at the rate of 6 db per octave. This frequency is also known at the Transition Frequency.

g_{fs} — Common source forward transconductance (FET).

h_{FE} — DC forward current transfer ratio, common emitter.

h_{fe} — Small signal forward current transfer ratio, common emitter.

h_{ib} — Small signal value of the short-circuit input impedance, common base.

h_{ie} — Small signal value of the short-circuit input impedance, common emitter.

h_{ob} — Small signal value of the open-circuit output admittance, common base.

h_{oe} — Small signal value of the open-circuit output admittance, common emitter.

h_{rb} — Small signal value of the open-circuit reverse voltage transfer ratio, common base.

h_{re} — Small signal value of the open-circuit reverse voltage transfer ratio, common emitter.

I_B — Base current, DC.

$I_{B(Sat)}$ — Base saturation current.

$I_{B2(mod)}$ — Interbase modulated current (UJT).

I_C — Collector current, DC.

$I_{C(Sat)}$ — Collector saturation current.

I_{CBO} — Collector cutoff current, DC, emitter open-circuit.

I_{CES} — Collector cutoff current, DC, with base shorted to emitter.

I_{CEX} — Collector cutoff current, DC, with specified circuit between base and emitter.

I_D — Drain Current, DC (FET).

$I_{D(on)}$ — "On" drain current (FET).

I_{DSS} — Drain current at zero gate voltage (FET).

I_E — Emitter current, DC

I_{EB20} — Emitter reverse current, base-one open-circuit, DC (UJT).

I_{CEO} — Collector cutoff current with base open-circuit

I_{CER} — Collector cutoff current with external base-to-emitter resistance

I_G — Gate current, DC (FET).

I_{GSS} — Gate source reverse current at zero drain-to-source voltage (FET).

I_{off} — Offset current, DC (FET)

I_P — Peak point emitter current (UJT)

$I_{P(3)}$ — Third order intercept point

I_V — Valley point emitter current (UJT).

n — Intrinsic standoff ratio (UJT).

NF — Noise factor or noise figure.

λ_s — Wave length of maximum sensitivity.

P_c — Collector power dissipation

P_d — Power dissipation.

P_o — Power output.

P_{o1db} — Power output at 1.0 db compression point.

P_T — Total power dissipation.

R_{BBO} — Interbase resistance, with emitter open circuit.

$r_{ds(on)}$ — Drain-to-source bulk resistance (FET).

t_d — Delay time.

t_f — Fall Time

t_{off} — Turn-off time = $t_s + t_f$.

t_{on} — Turn-on time = $t_d + t_r$

t_r — Rise time.

t_s — Storage time.

S_{RCE} — Collector-emitter radiation sensitivity.

S_{iCE} — Collector-emitter illumination sensitivity

V_{BE} — Base-to-emitter voltage, DC.

V_{B2E} — Base-two-to-emitter voltage, DC (UJT).

V_{B2B1} — Interbase voltage, DC (UJT).

$V_{BE(Sat)}$ — Base-to-emitter saturation voltage.

V_{CB} — Collector-to-base voltage, DC.

V_{CBO} — Collector-to-base voltage, DC, emitter open

V_{cc} — Supply Voltage

V_{CE} — Collector-to-emitter voltage, DC.

$V_{CE(sat)}$ — Collector-to-emitter saturation voltage

V_{CEO} — Collector-to-emitter voltage, DC, base open.

V_{DS} — Drain-to-source voltage (FET).

V_{EB1} — Emitter-to-base one voltage, DC (UJT).

V_{EBO} — Emitter-to-base voltage, DC, collector open.

$V_{EB1(Sat)}$ — Emitter saturation voltage (UJT)

V_{GS} — Gate-to-source voltage, DC (FET).

$V_{GS(off)}$ — Gate-to-source cutoff voltage (FET).

$V_{GS(th)}$ — Gate-to-source threshold voltage (FET).

V_{OB1} — Base-one peak pulse voltage (UJT).

V_{off} — Offset voltage.

V_p — Peak point emitter voltage (UJT).

V_p — Drain-to-source pinch-off voltage (FET).

V_v — Valley point emitter voltage (UJT).

Y_{FE} — DC forward transmittance with output short-circuit

Y_{fs} — Magnitude of small signal, short-circuit forward transadmittance, common source (FET).

Y_{FS} — DC Forward transadmittance (FETS)

Y_{os} — Magnitude of small signal, short-circuit output admittance, common source (FET).

CHOPPERS

$V_{(off)}$ — Emitter offset voltage.

$I_{(off)}$ — Emitter offset current.

$h_{FE(inv)}$ — DC current gain, inverted connection.

R_d — Inverted dynamic saturation resistance.

$r_{s(on)}$ — "On" series resistance.

DOUBLE COLLECTOR DEVICES

V_{C1C2} — Collector one-collector two voltage.

FOR DOUBLE EMITTER CHOPPER DEVICES

V_{E1BO} or V_{E2BO} — Emitter-to-base voltage, DC, collector open.

V_{E1CO} or V_{E2CO} — Emitter-to-Collector voltage, DC, base open.

V_{E1E2} or V_{E2E1} — Emitter one-emitter two offset voltage.

I_{E1E2O} — Emitter cutoff current.

MATCHED PAIRS

NOTE:

a. For all matching parameter ratios one (1) is always the smaller of the two (2) value of the parameter.

b. For differential values, if one (1) is always the smaller of the two (2) value, the differential is a negative number.

h_{FE1}/h_{FE2} — DC current gain ratio.

$V_{BE1} - V_{BE2}$ — Base-emitter differential voltage.

$\Delta V_{BE1} - V_{BE2} / \Delta T$ — Base-emitter differential voltage change due to a change in temperature.

I_{DSS1}/I_{DSS2} — Zero gate voltage-drain current ratio.

g_{m1}/g_{m2} — Transconductance ratio.

$|V_{GS1} - V_{GS2}|$ — Gate-source differential voltage.

$\Delta V_{GS1} - V_{GS2} / \Delta T$ — Gate-source differential voltage change due to a change in temperature.

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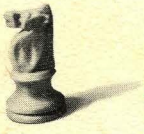
JAN Qualified Transistors

TYPE	MIL-S-19500	TYPE	MIL-S-19500
JAN-2N3439	/368A	JAN-2N6250	/510
JAN-2N3440	/368A	JAN-2N6251	/510
JAN-2N3584	/384B	JAN-2N6306	/498
JAN-2N3585	/384B	JAN-2N6308	/498
JAN-2N6249	/510		

Darlingtons • Complementary Pairs • High Current • High Is/b
• Fast Switching • High Voltage • Jan Qualified • High Voltage • Germanium



Come to STC...
It may be the smartest move you'll make