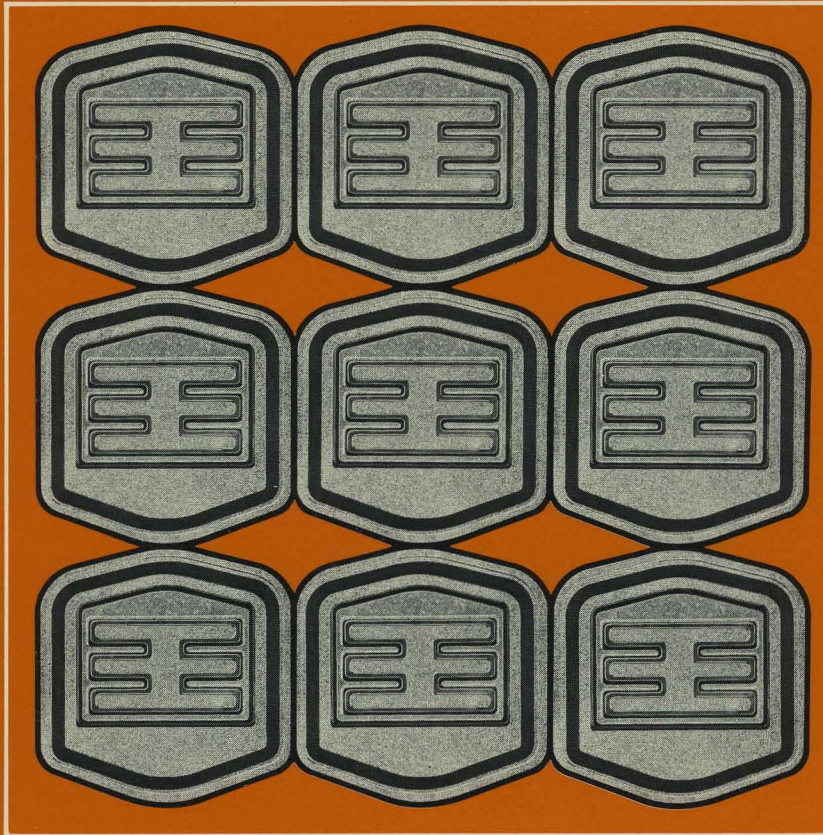


FAIRCHILD SEMICONDUCTOR

TRANSISTOR AND DIODE CONDENSED CATALOG



MADE IN
FAIRCHILD

OCTOBER 1971

FAIRCHILD SEMICONDUCTOR TRANSISTOR AND DIODE CONDENSED CATALOG OCTOBER 1971

This catalog contains a complete listing of the discrete devices manufactured by Fairchild. Ultra high speed (0.7ns) switching diodes to high power (200 watts) transistors are included. A numerical listing of all products can be found in the front section following the index.

HOW TO USE THIS CATALOG:

Devices are listed within major applications groups i.e., computer diodes, matched dual transistors etc. Within the major groups the devices are listed by the most meaningful parameters. For example, computer diodes are arranged first by t_{RR} . High voltage transistors are arranged by V_{CEO} . The heading of each section will explain how that section is arranged.

HOW TO ORDER:

All devices in this catalog are available through your local distributor. For special device selection, consult your Fairchild sales representative.

TABLE OF CONTENTS:

	PAGE NO.		PAGE NO.
NUMERICAL INDEXES	1	TRANSISTORS – SMALL SIGNAL (Cont'd.)	
1N NUMBERS	1	HIGH VOLTAGE AMPLIFIER	35
2N NUMBERS	3	NPN METAL PACKAGE	35
NON-REGISTERED TYPE NUMBERS	6	NPN PLASTIC PACKAGE	36
MILITARY APPROVED DIODES & TRANSISTORS	8	PNP METAL PACKAGE	36
DIODES	9	PNP PLASTIC PACKAGE	36
COMPUTER	9	RF – IF AMPLIFIERS AND OSCILLATOR	37
HIGH VOLTAGE SWITCHING	11	NPN METAL PACKAGE	37
GENERAL PURPOSE	13	NPN PLASTIC PACKAGE	38
LOW LEAKAGE	14	TRANSISTORS – POWER	39
HOT CARRIER	15	TO – 5 NPN	39
VOLTAGE VARIABLE	15	TO – 5 PNP	39
R.F. BAND SWITCH	15	TO – 66 NPN	39
R.F. PIN	15	TO – 66 PNP	40
ZENER	16	TO – 220 NPN (PLASTIC)	40
VOLTAGE REFERENCE	18	TO – 220 PNP (PLASTIC)	40
MATCHED ASSEMBLIES	18	TO – 3 NPN	41
MONOLITHIC ARRAYS	19	TO – 3 PNP	41
UNENCAPSULATED	20	TRANSISTORS – FIELD EFFECT	42
RECTIFIERS	20	N – CHANNEL J FET	42
GENERAL PURPOSE	20	P – CHANNEL J FET	42
TRANSISTORS – SMALL SIGNAL	21	N – CHANNEL DUAL GATE MOS FET	42
HIGH SPEED SATURATED SWITCHING	21	TRANSISTORS – MULTIPLE TRANSISTORS	43
NPN METAL PACKAGE	21	NPN MATCHED DUAL	43
NPN PLASTIC PACKAGE	23	PNP MATCHED DUAL	44
PNP METAL PACKAGE	24	NPN UNMATCHED DUAL	45
PNP PLASTIC PACKAGE	24	PNP UNMATCHED DUAL	45
GENERAL PURPOSE AMPLIFIER & SWITCHING	25	NPN – PNP UNMATCHED COMPLEMENTARY	45
NPN METAL PACKAGE	25	NPN DARLINGTON	46
NPN PLASTIC PACKAGE	28	PNP DARLINGTON	46
PNP METAL PACKAGE	30	NPN QUAD CORE DRIVERS	46
PNP PLASTIC PACKAGE	32	PNP QUAD CORE DRIVERS	46
LOW LEVEL, LOW NOISE AMPLIFIER	33	TRANSISTORS – UNENCAPSULATED	47
NPN METAL PACKAGE	33	PACKAGE OUTLINES	48
NPN PLASTIC PACKAGE	34	SALES OFFICES	52
PNP METAL PACKAGE	34		
PNP PLASTIC PACKAGE	35		

NUMERICAL INDEX 1N NUMBERS

Type	Page No.	Type	Page No.	Type	Page No.	Type	Page No.
1N251	10	1N643A JAN	8, 11	1N808	11	1N959A	16
1N251 JAN	8, 10	1N643A	11	1N809	11	1N959B	16
1N251A	11	1N658	11	1N811	12	1N960	16
1N252	10	1N658 JAN	8, 11	1N812	12	1N960A	16
1N456	14	1N659	10	1N813	12	1N960B	16
1N456A	14	1N660	11	1N814	10	1N961	16
1N457	14	1N661	13	1N815	12	1N961A	16
1N457 JAN	8, 14	1N662	11	1N816	13	1N961B	16
1N457A	14	1N662 JAN	8, 11	1N818	12	1N962	16
1N458	14	1N662A	11	1N837	11	1N962A	16
1N458 JAN	8, 14	1N663	11	1N837A	11	1N962B	16
1N458A	14	1N663 JAN	8, 11	1N838	11	1N962B JAN	8, 16
1N459	14	1N663A	11	1N839	11	1N963	16
1N459 JAN	8, 14	1N676	13	1N840	12	1N963A	16
1N459A	14	1N678	13	1N841	11	1N963B	16
1N461	13	1N753	16	1N842	11	1N963B JAN	8, 16
1N461A	13	1N753A	16	1N843	11	1N964	16
1N462	13	1N753A JAN	8, 16	1N844	13	1N964A	16
1N462A	13	1N754	16	1N845	11	1N964B	17
1N463	13	1N754A	16	1N890	14	1N964B JAN	8, 17
1N463A	13	1N754A JAN	8, 16	1N891	12	1N965	17
1N464	13	1N755	16	1N903	10	1N965A	17
1N464A	13	1N755A	16	1N903A	10	1N965B	17
1N482	13	1N755A JAN	8, 16	1N904	10	1N965B JAN	8, 17
1N482A	14	1N756	16	1N904A	10	1N966	17
1N482B	14	1N756A	16	1N905	10	1N966A	17
1N483	13	1N756A JAN	8, 16	1N905A	10	1N966B	17
1N483A	14	1N757	16	1N906	10	1N966B JAN	8, 17
1N483B	14	1N757A	16	1N906A	10	1N967	17
1N483B JAN	8, 14	1N757A JAN	8, 16	1N907	10	1N967A	17
1N483B JAN TX	8, 14	1N758	16	1N907A	10	1N967B	17
1N484	13	1N758A	16	1N908	10	1N967B JAN	8, 17
1N484A	14	1N758A JAN	8, 16	1N908A	10	1N968	17
1N484B	14	1N759	16	1N914	9, 18	1N968A	17
1N485	13	1N759A	16	1N914 JAN	8, 10	1N968B	17
1N485A	14	1N759A JAN	8, 16	1N914 JAN TX	8, 10	1N968B JAN	8, 17
1N485B	14	1N778	11	1N914A	9	1N969	17
1N485B JAN	8, 14	1N779	13	1N914B	9	1N969A	17
1N485B JAN TX	8, 14	1N789	12	1N916	9	1N969B	17
1N486	14	1N790	12	1N916A	9	1N969B JAN	8, 17
1N486A	14	1N791	12	1N916B	9	1N970	17
1N486B	14	1N792	12	1N925	13	1N970A	17
1N486B JAN	8, 14	1N793	12	1N926	13	1N970B	17
1N486B JAN TX	8, 14	1N794	11	1N927	12	1N970B JAN	8, 17
1N619	13	1N795	13	1N928	11	1N971	17
1N622	13	1N796	12	1N957	16	1N971A	17
1N625	12	1N797	11	1N957A	16	1N971B	17
1N626	12	1N799	13	1N957B	16	1N971B JAN	8, 17
1N627	11	1N801	11	1N958	16	1N972	17
1N628	11	1N804	11	1N958A	16	1N972A	17
1N629	11	1N806	11	1N958B	16	1N972B	17
1N643	11	1N807	11	1N959	16	1N972B JAN	8, 17

NUMERICAL INDEX 1N NUMBERS

Continued

Type	Page No.	Type	Page No.	Type	Page No.	Type	Page No.
1N973	17	1N3596	10	1N4148 JAN TX	8, 10	1N4449	9
1N973A	17	1N3597	11	1N4149	9	1N4450	10
1N973B	17	1N3600	9	1N4150	10	1N4454	10
1N973B JAN	8, 17	1N3600 JAN	8, 9	1N4151	9	1N4454 JAN	8, 10
1N3062	9	1N3600 JAN TX	8, 9	1N4152	9	1N4454 JAN TX	8, 10
1N3063	9	1N3602	10	1N4153	9	1N4531	9
1N3064	9	1N3603	10	1N4154	10	1N4532	10
1N3064 JAN	8, 9	1N3604	9	1N4244	9	1N4533	9
1N3064 JAN TX	8, 9	1N3605	9	1N4305	10	1N4534	9
1N3065	9	1N3606	9	1N4306	18	1N4536	10
1N3066	9	1N4001	20	1N4306 JAN	8, 18	1N4606	9
1N3067	10	1N4002	20	1N4307	18	1N4607	9
1N3068	12	1N4003	20	1N4307 JAN	8, 18	1N4610	9
1N3069	12	1N4004	20	1N4322	10	1N4727	10
1N3070	11, 18	1N4005	20	1N4363	11	1N4950	10
1N3070 JAN	8, 11	1N4009	10	1N4376	9	1N5282	9
1N3070 JAN TX	8, 11	1N4086	9	1N4376 JAN	8, 9	1N5317	9
1N3071	11	1N4087 JAN	8	1N4446	9	1N5318	10
1N3595	14, 18	1N4148	9	1N4447	9	1N5319	10
1N3595 JAN	8, 14	1N4148 JAN	8, 10	1N4448	9	1N5390	15

NUMERICAL INDEX 2N NUMBERS

Type	Page No.	Type	Page No.	Type	Page No.	Type	Page No.
2N497	27	2N871	26	2N1973	26	2N2303	30
2N498	35	2N909	25	2N1974	26	2N2368	21
2N656	27	2N910	26	2N1975	26	2N2369	21
2N657	35	2N911	26	2N1983	26	2N2369A	21
2N657 JAN	8, 35	2N912	26	2N1984	26	2N2369A JAN	8, 21
2N696	26	2N914	21	2N1985	26	2N2369A JAN TX	8, 21
2N697	26	2N914 JAN	8, 21	2N1986	25	2N2405	25
2N697 JAN	8, 26	2N914 JAN TX	8, 21	2N1987	25	2N2410	22
2N698	27	2N915	26	2N1988	26	2N2443	35
2N699	27	2N916	25	2N1989	26	2N2475	21
2N699A	27	2N917	37	2N1990	26	2N2476	22
2N699B	27	2N918	37	2N1991	30	2N2477	22
2N703	25	2N918 JAN	8, 37	2N2008	35	2N2481	21
2N706	22	2N918 JAN TX	8, 37	2N2049	26	2N2481 JAN	8, 21
2N706 JAN	8, 21	2N929	33	2N2060	43	2N2483	33
2N706A	21	2N930	33	2N2060A	43	2N2484	33
2N706B	21	2N930 JAN	8, 33	2N2060B	43	2N2484 JAN	8, 33
2N707	37	2N930 JAN TX	8, 33	2N2192	25	2N2509	33
2N708	21	2N947	21	2N2192A	25	2N2510	33
2N708 JAN	8, 21	2N956	26	2N2192B	25	2N2511	33
2N708 JAN TX	8, 21	2N957	25	2N2193	26	2N2586	33
2N709	21	2N978	30	2N2193A	26	2N2639	43
2N709A	21	2N995	30	2N2193B	26	2N2640	43
2N717	25	2N995A	30	2N2194	26	2N2641	45
2N718	25	2N996	30	2N2194A	26	2N2642	43
2N718A	26	2N997	46	2N2194B	26	2N2643	43
2N718A JAN	8, 25	2N998	46	2N2195	25	2N2644	45
2N718A JAN TX	8, 25	2N999	46	2N2195A	25	2N2645	26
2N719	27	2N1131	30	2N2195B	25	2N2651	21
2N719A	27	2N1131A	31	2N2205	21	2N2696	30
2N720	27	2N1132	30	2N2206	21	2N2710	21
2N720A	27	2N1132 JAN	8, 30	2N2218	25	2N2723	46
2N720A JAN	8, 27	2N1132A	31	2N2218A	26	2N2724	46
2N720A JAN TX	8, 27	2N1252	22	2N2219	25	2N2725	46
2N721	30	2N1253	22	2N2219 JAN	8, 25	2N2800	30
2N722	30	2N1420	25	2N2219 JAN TX	8, 25	2N2801	30
2N743	21	2N1420A	25	2N2219A	25	2N2837	30
2N744	21	2N1613	26	2N2219A JAN	8, 26	2N2838	30
2N744 JAN	8, 21	2N1613 JAN	8, 25	2N2219A JAN TX	8, 26	2N2845	22
2N753	21	2N1613 JAN TX	8, 25	2N2221	25	2N2846	22
2N760	33	2N1708	21	2N2221A	26	2N2847	22
2N760A	33	2N1708A	21	2N2222	25	2N2848	22
2N783	21	2N1711	26	2N2222 JAN	8, 25	2N2868	26
2N784	21	2N1711 JAN	8, 25	2N2222 JAN TX	8, 25	2N2894	24
2N834	21	2N1711 JAN TX	8, 25	2N2222A	25	2N2894A	24
2N834A	21	2N1711A	25	2N2222A JAN	8, 26	2N2904	30
2N835	22	2N1889	26	2N2222A JAN TX	8, 26	2N2904A	31
2N869	30	2N1890	26	2N2223	43	2N2905	30
2N869A	30	2N1893	27	2N2223A	43	2N2905 JAN	8, 30
2N869A JAN	8, 30	2N1893 JAN	8, 27	2N2242	21	2N2905 JAN TX	8, 30
2N869A JAN TX	8, 30	2N1893 JAN TX	8, 27	2N2270	26	2N2905A	31
2N870	26	2N1972	25	2N2297	25	2N2905A JAN	8, 31

NUMERICAL INDEX 2N NUMBERS

Continued

Type	Page No.	Type	Page No.	Type	Page No.	Type	Page No.
2N2905A JAN TX	8, 31	2N3072	31	2N3546	24	2N3741	40
2N2906	31	2N3073	31	2N3563	38	2N3742	35
2N2906A	31	2N3107	26	2N3564	38	2N3743	36
2N2907	30	2N3108	27	2N3565	34	2N3766	39
2N2907 JAN	8, 30	2N3109	25	2N3566	28	2N3767	39
2N2907 JAN TX	8, 30	2N3110	26	2N3567	29	2N3789	41
2N2907A	31	2N3114	35	2N3568	29	2N3790	41
2N2907A JAN	8, 31	2N3115	25	2N3569	29	2N3791	41
2N2907A JAN TX	8, 31	2N3116	25	2N3634	36	2N3792	41
2N2910	43	2N3117	33	2N3635	36	2N3800	45
2N2913	45	2N3120	31	2N3636	36	2N3801	45
2N2914	45	2N3121	31	2N3637	36	2N3802	44
2N2915	43	2N3133	30	2N3638	32	2N3803	44
2N2915A	43	2N3134	30	2N3638A	32	2N3804	44
2N2916	43	2N3135	30	2N3639	24, 39	2N3804A	44
2N2916A	43	2N3136	30	2N3640	24, 39	2N3805	44
2N2917	43	2N3137	37	2N3641	29	2N3805A	44
2N2918	43	2N3209	24	2N3642	29	2N3806	45
2N2919	43	2N3250	30	2N3643	28	2N3807	45
2N2919A	43	2N3250A	31	2N3644	32	2N3808	44
2N2920	43	2N3251	30	2N3645	33	2N3809	44
2N2920 JAN	8, 43	2N3251A	31	2N3646	23	2N3810	44
2N2910 JAN TX	8, 43	2N3251A JAN	8, 31	2N3647	21	2N3810A	44
2N2920A	43	2N3251A JAN TX	8,31	2N3648	21	2N3811	44
2N2927	30	2N3252	22	2N3665	27	2N3811A	44
2N2958	25	2N3253	22	2N3666	27	2N3903	29
2N2959	25	2N3299	25	2N3671	31	2N3904	29
2N2972	45	2N3300	25	2N3672	31	2N3905	32
2N2973	45	2N3301	25	2N3678	26	2N3906	32
2N2974	43	2N3302	25	2N3688	38	2N3923	35
2N2975	43	2N3304	24	2N3689	38	2N3930	36
2N2976	43	2N3326	26	2N3690	38	2N3931	36
2N2977	43	2N3423	43	2N3691	28	2N3945	26
2N2978	43	2N3424	43	2N3692	28	2N3946	25
2N2979	43	2N3425	45	2N3693	29	2N3947	25
2N2980	43	2N3439	39	2N3694	29	2N3962	34
2N2981	43	2N3440	39	2N3700	27	2N3963	34
2N2982	43	2N3441	39	2N3701	27	2N3964	34
2N3009	21	2N3444	22	2N3713	41	2N3965	34
2N3010	21	2N3467	24	2N3714	41	2N4013	22
2N3011	21	2N3468	24	2N3715	41	2N4014	22
2N3012	24	2N3494	31	2N3716	41	2N4015	44
2N3013	21	2N3495	36	2N3722	22	2N4016	44
2N3013 JAN	8, 21	2N3496	31	2N3723	22	2N4017	45
2N3014	21	2N3497	36	2N3724	22	2N4018	45
2N3015	22	2N3502	31	2N3725	22	2N4019	45
2N3019	27	2N3503	31	2N3726	44	2N4020	44
2N3020	27	2N3504	31	2N3727	44	2N4021	44
2N3045	45	2N3505	31	2N3728	43	2N4022	44
2N3053	26	2N3510	21	2N3729	43	2N4023	44
2N3054	39	2N3511	21	2N3734	22	2N4024	44
2N3055	41	2N3526	35	2N3740	40	2N4025	44

NUMERICAL INDEX 2N NUMBERS

Continued

Type	Page No.	Type	Page No.	Type	Page No.	Type	Page No.
2N4026	31	2N4359	34	2N4962	26	2N5225	28
2N4027	31	2N4360	42	2N4963	27	2N5226	32
2N4028	31	2N4389	24	2N4964	35	2N5227	32
2N4029	31	2N4398	41	2N4965	35	2N5228	24
2N4030	31	2N4399	41	2N4966	34	2N5254	45
2N4031	31	2N4400	29	2N4967	34	2N5255	44
2N4032	31	2N4401	29	2N4968	34	2N5256	44
2N4033	31	2N4402	32	2N4969	29	2N5301	41
2N4034	30	2N4403	32	2N4970	28	2N5302	41
2N4035	30	2N4409	29	2N5022	24	2N5303	41
2N4036	31	2N4410	29	2N5023	24	2N5400	36
2N4037	30	2N4436	29	2N5033	42	2N5401	36
2N4046	22	2N4437	28	2N5040	32	2N5415	36
2N4047	22	2N4449	21	2N5041	32	2N5416	36
2N4121	32	2N4854	45	2N5042	31	2N5455	24
2N4122	32	2N4855	45	2N5055	24	2N5456	24
2N4123	28	2N4888	36	2N5056	24	2N5484	42
2N4124	28	2N4889	36	2N5057	24	2N5485	42
2N4125	32	2N4895	39	2N5058	35	2N5486	42
2N4126	32	2N4896	39	2N5059	35	2N5550	36
2N4137	21	2N4897	39	2N5067	41	2N5769	23
2N4207	24	2N4898	40	2N5068	41	2N5770	38
2N4208	24	2N4899	40	2N5069	41	2N5771	24
2N4209	24	2N4900	40	2N5086	35	2N5772	23
2N4231	39	2N4901	41	2N5087	35	2N5793	45
2N4232	39	2N4902	41	2N5088	34	2N5794	45
2N4233	39	2N4903	41	2N5089	34	2N5795	45
2N4234	39	2N4904	41	2N5126	38	2N5796	45
2N4235	39	2N4905	41	2N5127	38	2N5830	36
2N4236	39	2N4906	41	2N5128	28	2N5831	36
2N4237	39	2N4907	41	2N5129	28	2N5832	36
2N4238	39	2N4908	41	2N5130	38	2N5833	36
2N4239	39	2N4909	41	2N5131	28	2N5843	44
2N4248	35	2N4910	39	2N5132	28	2N5844	44
2N4249	35	2N4911	39	2N5133	34	2N5845	23
2N4250	35	2N4912	39	2N5134	23	2N5845A	23
2N4250A	35	2N4913	41	2N5135	28	2N5855	33
2N4257	24	2N4914	41	2N5136	28	2N5856	29
2N4257A	24	2N4915	41	2N5137	28	2N5857	33
2N4258	24	2N4916	32	2N5138	35	2N5858	30
2N4258A	24	2N4917	32	2N5139	32	2N5910	24
2N4264	23	2N4926	35	2N5140	24	2N5961	34
2N4265	23	2N4927	35	2N5141	24	2N5962	34
2N4274	23	2N4937	44	2N5142	32	2N5963	34
2N4275	23	2N4938	44	2N5143	32	2N5964	36
2N4313	24	2N4944	29	2N5209	34	2N5965	36
2N4342	42	2N4945	29	2N5210	34	2N6121	40
2N4343	42	2N4946	29	2N5219	28	2N6122	40
2N4354	33	2N4955	45	2N5220	28	2N6123	40
2N4355	32	2N4956	43	2N5221	32	2N6124	40
2N4356	33	2N4960	26	2N5223	28	2N6125	40
2N4357	36	2N4961	27	2N5224	23	2N6126	40
2N4358	36						

NUMERICAL INDEX NON-REGISTERED TYPE NUMBERS

Type	Page No.	Type	Page No.	Type	Page No.	Type	Page No.
DN918	47	EN3904	29	FA3332	18	FD444	11
DN2222A	47	EN3905	32	FA3333	18	FD600	9
DN2369A	47	EN3906	32	FA3334	18	FD700	9
DN2484	47	EN3962	35	FA3335	18	FD777	9
DN2907	47	FA2310E	18	FA3360	18	FD6666	10
DN3014	47	FA2310U	18	FA3361	18	FDC485B	20
DN3019	47	FA2311E	18	FA4310E	18	FDC3070	20
DN3250	47	FA2311U	18	FA4310U	18	FDC3600	20
DN3468	47	FA2312E	18	FA4311E	18	FDC4376	20
DN3725	47	FA2312U	18	FA4311U	18	FDH400	11
DN3742	47	FA2313E	18	FA4312E	18	FDH444	11
DN3743	47	FA2313U	18	FA4312U	18	FDH600	9
DN3904	47	FA2320E	18	FA4313E	18	FDH666	10
DN3906	47	FA2320U	18	FA4313U	18	FDN400	11
DN3923	47	FA2321E	18	FA4320E	18	FDN444	11
DN3930	47	FA2321U	18	FA4320U	18	FDN600	9
DN3962	47	FA2322E	18	FA4321E	18	FDN666	10
DN4033	47	FA2322U	18	FA4321U	18	FE5245	42
DN4209	47	FA2323E	18	FA4322E	18	FE5246	42
DN5455	47	FA2323U	18	FA4322U	18	FE5247	42
EN697	29	FA2324E	18	FA4323E	18	FE5484	42
EN706	23	FA2324U	18	FA4323U	18	FE5485	42
EN708	23	FA2325E	18	FA4324E	18	FE5486	42
EN718A	29	FA2325U	18	FA4324U	18	FH1100	15
EN722	32	FA2330E	18	FA4325E	18	FJT1100	14
EN744	23	FA2330U	18	FA4325U	18	FPQ3467	46
EN870	29	FA2331E	18	FA4330E	18	FPQ3468	46
EN871	29	FA2331U	18	FA4330U	18	FPQ3724	46
EN914	23	FA2332E	18	FA4331E	18	FPQ3725	46
EN915	29	FA2332U	18	FA4331U	18	FSA1410M	19
EN916	28	FA2333E	18	FA4332E	18	FSA1411M	19
EN918	38	FA2333U	18	FA4332U	18	FSA2002M	19
EN930	34	FA2334E	18	FA4333E	18	FSA2003M	19
EN956	29	FA2334U	18	FA4333U	18	FSA2500M	19
EN1132	32	FA2335E	18	FA4334E	18	FSA2501M	19
EN1613	29	FA2335U	18	FA4334U	18	FSA2502M	19
EN1711	29	FA2360E	18	FA4335E	18	FSA2503M	19
EN2219	28	FA2360U	18	FA4335U	18	FSA2504M	19
EN2222	28	FA2361E	18	FA4360E	18	FSA2508M	19
EN2369A	23	FA2361U	18	FA4360U	18	FSA2509M	19
EN2484	34	FA3310	18	FA4361E	18	FSA2510M	19
EN2894A	24	FA3311	18	FA4361U	18	FSA2563M	19
EN2905	32	FA3312	18	FCT1021	18	FSA2564M	19
EN2907	32	FA3313	18	FCT1022	18	FSA2565M	19
EN3009	23	FA3320	18	FCT1025	18	FSA2566M	19
EN3011	23	FA3321	18	FCT1121	18	FSA2619M	19
EN3013	23	FA3322	18	FCT1122	18	FSA2620M	19
EN3014	23	FA3323	18	FCT1125	18	FSA2621M	19
EN3250	32	FA3324	18	FD100	9	FSA2702M	19
EN3502	32	FA3325	18	FD300	14	FSA2703M	19
EN3504	32	FA3330	18	FD333	14	FSA2704M	19
EN3903	29	FA3331	18	FD400	11	FSA2705M	19

NUMERICAL INDEX NON-REGISTERED TYPE NUMBERS

Continued

Type	Page No.	Type	Page No.	Type	Page No.	Type	Page No.
FT107A	33	MPS706A	23	MPS6511	38	RF101	15
FT107B	33	MPS834	23	MPS6512	28	RF300	15
FT107C	33	MPS918	38	MPS6513	28	RF400	15
FT0601	42	MPS2369	23	MPS6514	28	RF401	15
FT709	21	MPS2711	28	MPS6515	28	SE1001	29
FT2974	43	MPS2712	28	MPS6516	32	SE1002	29
FT2975	43	MPS2713	23	MPS6517	32	SE1010	38
FT2978	43	MPS2714	23	MPS6518	32	SE2001	28
FT2979	43	MPS2923	28	MPS6519	32	SE2002	28
FT3820	42	MPS2924	28	MPS6520	34	SE3001	38
FT3903	25	MPS2925	28	MPS6521	34	SE3002	38
FT3904	25	MPS2926	28	MPS6522	35	SE3646	23
FT3905	30	MPS3392	28	MPS6523	35	SE4001	34
FT3906	30	MPS3393	28	MPS6530	29	SE4002	34
MD918	45	MPS3394	28	MPS6531	29	SE4010	34
MD918A	43	MPS3395	28	MPS6532	28	SE5006	38
MD918B	43	MPS3563	38	MPS6533M	32	SE5020	37
MD2218A	45	MPS3638	32	MPS6534M	32	SE5021	37
MD2219A	45	MPS3638A	32	MPS6535M	32	SE5022	37
MD2904A	45	MPS3639	24	MPS6560	28	SE5023	37
MD2905A	45	MPS3640	24	MPS6561	28	SE5024	37
MPSA05	29	MPS3646	23	MPS6562	32	SE5050	37
MPSA06	29	MPS3693	29	MPS6563	32	SE5051	37
MPSA09	34	MPS3694	29	MPS6565	29	SE5052	37
MPSA10	29	MPS3702	32	MPS6566	29	SE5055	37
MPSA12	46	MPS3703	32	MPS6571	34	SE6020	29
MPSA13	46	MPS3704	28	MPS6590	30	SE6021	29
MPSA14	46	MPS3705	28	MPS6591	29	SE6022	29
MPSA20	29	MPS3706	28	PE3100	38	SE6023	29
MPSA55	33	MPS3707	34	PE5010	38	SE7001	35
MPSA56	33	MPS3708	34	PE5013	38	SE7002	35
MPSA65	46	MPS3709	34	PE5015	38	SE7010	35
MPSA66	46	MPS3710	34	PE5025	38	SE7055	35
MPSA70	32	MPS3711	34	PE5029	38	SE7056	35
MPSL07	24	MPS3721	28	PE5030B	38	SE7057	35
MPSL08	24	MPS5172	28	PE5031	38	SE7066	35
MPSL51	36	MPS5551M	36	RF100	15	SE8010	37
MPS706	23						

MILITARY APPROVED DIODES & TRANSISTORS

DIODES

TRANSISTORS

JAN1N251	MIL-S-19500/188
JAN1N457	MIL-S-19500/193
JAN1N458	MIL-S-19500/193
JAN1N459	MIL-S-19500/193
JAN1N483B	MIL-S-19500/118
JAN-TX1N483B	MIL-S-19500/118
JAN1N485B	MIL-S-19500/118
JAN-TX1N485B	MIL-S-19500/118
JAN1N486B	MIL-S-19500/118
JAN-TX1N486B	MIL-S-19500/118
JAN1N643	MIL-S-19500/256
JAN1N658	MIL-S-19500/257
JAN1N662	MIL-S-19500/256
JAN1N663	MIL-S-19500/256
JAN1N753A	MIL-S-19500/127
JAN1N754A	MIL-S-19500/127
JAN1N755A	MIL-S-19500/127
JAN1N756A	MIL-S-19500/127
JAN1N757A	MIL-S-19500/127
JAN1N758A	MIL-S-19500/127
JAN1N759A	MIL-S-19500/127
JAN1N914	MIL-S-19500/116
JAN-TX1N914	MIL-S-19500/116
JAN1N962B	MIL-S-19500/117
JAN1N963B	MIL-S-19500/117
JAN1N964B	MIL-S-19500/117
JAN1N965B	MIL-S-19500/117
JAN1N966B	MIL-S-19500/117
JAN1N967B	MIL-S-19500/117
JAN1N968B	MIL-S-19500/117
JAN1N969B	MIL-S-19500/117
JAN1N970B	MIL-S-19500/117
JAN1N971B	MIL-S-19500/117
JAN1N972B	MIL-S-19500/117
JAN1N973B	MIL-S-19500/117
JAN1N3064	MIL-S-19500/144
JAN-TX1N3064	MIL-S-19500/144
JAN1N3070	MIL-S-19500/169
JAN-TX1N3070	MIL-S-19500/169
JAN1N3595	MIL-S-19500/241
JAN1N3600	MIL-S-19500/231
JAN-TX1N3600	MIL-S-19500/231
JAN1N4087	MIL-S-19500/275
JAN1N4148	MIL-S-19500/116
JAN-TX1N4148	MIL-S-19500/116
JAN1N4306	MIL-S-19500/278
JAN1N4307	MIL-S-19500/284
JAN1N4376	MIL-S-19500/282
JAN1N4454	MIL-S-19500/144
JAN-TX1N4454	MIL-S-19500/144

JAN2N697	MIL-S-19500/99
JAN2N706	MIL-S-19500/120
JAN2N708	MIL-S-19500/312
JAN-TX2N708	MIL-S-19500/312
JAN2N718A	MIL-S-19500/181
JAN-TX2N718A	MIL-S-19500/181
JAN2N720A	MIL-S-19500/182
JAN-TX2N720A	MIL-S-19500/182
JAN2N744	MIL-S-19500/273
JAN2N869A	MIL-S-19500/283
JAN-TX2N869A	MIL-S-19500/283
JAN2N914	MIL-S-19500/373
JAN-TX2N914	MIL-S-19500/373
JAN2N918	MIL-S-19500/301
JAN-TX2N918	MIL-S-19500/301
JAN2N930	MIL-S-19500/253
JAN-TX2N930	MIL-S-19500/253
JAN2N1132	MIL-S-19500/177
JAN2N1613	MIL-S-19500/181
JAN-TX2N1613	MIL-S-19500/181
JAN2N1711	MIL-S-19500/225
JAN-TX2N1711	MIL-S-19500/225
JAN2N1893	MIL-S-19500/182
JAN-TX2N1893	MIL-S-19500/182
JAN2N2219	MIL-S-19500/251
JAN-TXN2219	MIL-S-19500/251
JAN2N2219A	MIL-S-19500/251
JAN-TX2N2219A	MIL-S-19500/251
JAN2N2222	MIL-S-19500/255
JAN-TX2N2222	MIL-S-19500/255
JAN2N2222A	MIL-S-19500/255
JAN-TX2N2222A	MIL-S-19500/255
JAN2N2369A	MIL-S-19500/317
JAN-TX2N2369A	MIL-S-19500/317
JAN2N2481	MIL-S-19500/268
JAN-TX2N2481	MIL-S-19500/268
JAN2N2484	MIL-S-19500/376
JAN-TX2N2484	MIL-S-19500/376
JAN2N2905	MIL-S-19500/290
JAN-TX2N2905	MIL-S-19500/290
JAN2N2905A	MIL-S-19500/290
JAN-TX2N2905A	MIL-S-19500/290
JAN2N2907	MIL-S-19500/291
JAN-TX2N2907	MIL-S-19500/291
JAN2N2907A	MIL-S-19500/291
JAN-TX2N2907A	MIL-S-19500/291
JAN2N2920	MIL-S-19500/355
JAN-TX2N2920	MIL-S-19500/355
JAN2N3013	MIL-S-19500/287
JAN2N3251A	MIL-S-19500/323
JAN-TX2N3251A	MIL-S-19500/323

DIODES
COMPUTER DIODES (BY ASCENDING t_{RR})
GLASS PACKAGE

TYPE	t _{RR}	B _V	I _R	V _F	C	Package	Package	Equivalent	DO-7/DO-35		
	ns	VOLTS	nA	@	V _R					VOLTS	@
	MAX	MIN	MAX	@	VOLTS	MAX	@	mA	MAX		
FD700	0.70	30	50	@	15	1.1	@	50	.75	DO-7	
1N4244	0.75	20	100	@	10	1.0	@	20	0.8	DO-7	
1N4376	0.75	20	100	@	10	1.1	@	50	1.0	DO-7	
1N4376 JAN	0.75	20	100	@	10	1.1	@	50	1.0	DO-7	
FD777	0.75	15	100	@	8	1.0	@	20	1.3	DO-7	
1N5282	2.0	80	100	@	55	1.3	@	500	2.5	DO-35	
1N5317	2.0	80	100	@	55	0.90	@	100	2.5	DO-34	1N5282
1N3606	2.0	75	50	@	50	0.88	@	20	2.0	DO-7	1N4153
1N4153	2.0	75	50	@	50	0.88	@	20	2.0	DO-35	1N3606
1N4534	2.0	75	50	@	50	0.88	@	20	2.0	DO-34	1N4153
1N3062	2.0	75	100	@	50	1.0	@	20	1.0	DO-7	
1N3066	2.0	75	100	@	50	1.0	@	10	1.0	DO-7	
1N3605	2.0	40	50	@	30	0.88	@	20	2.0	DO-7	1N4152
1N4152	2.0	40	50	@	30	0.88	@	20	2.0	DO-35	1N3605
1N4533	2.0	40	50	@	30	0.88	@	20	2.0	DO-34	1N4152
1N3600	3.0	75	100	@	50	1.0	@	200	2.5	DO-7	1N4150
1N914	4.0	100	25	@	20	1.0	@	10	4.0	DO-7	1N4148
1N914A	4.0	100	25	@	20	1.0	@	20	4.0	DO-7	1N4446
1N914B	4.0	100	25	@	20	1.0	@	100	4.0	DO-7	1N4448
1N916	4.0	100	25	@	20	1.0	@	10	2.0	DO-7	1N4149
1N916A	4.0	100	25	@	20	1.0	@	20	2.0	DO-7	1N4447
1N916B	4.0	100	25	@	20	1.0	@	30	2.0	DO-7	1N4449
1N4148	4.0	100	25	@	20	1.0	@	10	4.0	DO-35	1N914
1N4149	4.0	100	25	@	20	1.0	@	10	2.0	DO-35	1N916
1N4446	4.0	100	25	@	20	1.0	@	20	4.0	DO-35	1N914A
1N4447	4.0	100	25	@	20	1.0	@	20	2.0	DO-35	1N916A
1N4448	4.0	100	25	@	20	1.0	@	100	4.0	DO-35	1N914B
1N4449	4.0	100	25	@	20	1.0	@	30	2.0	DO-35	1N916B
1N4531	4.0	100	25	@	20	1.0	@	10	4.0	DO-34	1N4148
1N4606	4.0	85	250	@	70	1.10	@	250	2.5	DO-35	
1N4607	4.0	85	250	@	70	1.10	@	400	4.0	DO-35	
1N4610	4.0	80	100	@	55	1.0	@	200	2.0	DO-7	
1N3604	4.0	75	50	@	50	1.0	@	50	2.0	DO-7	1N4151
1N4151	4.0	75	50	@	50	1.0	@	50	2.0	DO-35	1N3604
FD100	4.0	75	100	@	50	1.0	@	10	2.0	DO-7	
FD600	4.0	75	100	@	50	1.0	@	200	2.5	DO-7	FDH600
FDH600	4.0	75	100	@	50	1.0	@	200	2.5	DO-35	FD600
FDN600	4.0	75	100	@	50	1.0	@	200	2.5	DO-34	FDH600
1N3063	4.0	75	100	@	50	0.85	@	10	2.0	DO-7	1N4305
1N3064	4.0	75	100	@	50	1.0	@	10	2.0	DO-7	1N4454
1N3064 JAN	4.0	75	100	@	50	1.0	@	10	2.0	DO-7	1N4454
1N3064 JANTX	4.0	75	100	@	50	1.0	@	10	2.0	DO-7	1N4454
1N3065	4.0	75	100	@	50	1.0	@	20	1.5	DO-7	
1N3600 JAN	4.0	75	100	@	10	1.0	@	200	2.5	DO-7	
1N3600 JANTX	4.0	75	100	@	10	1.0	@	200	2.5	DO-7	
1N4086	4.0		250	@	70	1.0	@	200	10.0	DO-7	

Preferred devices in bold type

DIODES

COMPUTER DIODES (BY ASCENDING t_{RR})

GLASS PACKAGE

Continued

TYPE	t_{RR}	B_V	nA	I_R	V_R	V_F	I_F	C	Package		
	ns	VOLTS		@		VOLTS		@	pF	Equivalent	Package
	MAX	MIN	MAX	@	VOLTS	MAX	mA	MAX	DO-7/DO-35		
1N4150	4.0	75	100	@	50	1.0	@	200	2.5	DO-35	1N3600
1N4305	4.0	75	100	@	50	0.85	@	10	2.0	DO-35	1N3063
1N4322	4.0	75	100	@	50	1.0	@	200	1.5	DO-7	
1N4454	4.0	75	100	@	50	1.0	@	10	2.0	DO-35	1N3064
1N4454 JAN	4.0	75	100	@	50	1.0	@	10	2.0	DO-35	1N3064
1N4454 JANTX	4.0	75	100	@	50	1.0	@	10	2.0	DO-35	1N3064
1N4532	4.0	75	100	@	50	1.0	@	10	2.0	DO-34	1N4454
1N5318	4.0	75	100	@	50	1.0	@	200	2.5	DO-34	FDH600
1N903	4.0	60	100	@	40	1.0	@	10	1.0	DO-7	
1N908	4.0	60	100	@	40	1.0	@	10	2.5	DO-7	
1N903A	4.0	50	100	@	40	1.0	@	20	1.0	DO-7	
1N904	4.0	50	100	@	30	1.0	@	10	1.0	DO-7	
1N907	4.0	50	100	@	30	1.0	@	10	2.5	DO-7	
1N907A	4.0	50	100	@	30	1.0	@	20	2.5	DO-7	
1N908A	4.0	50	100	@	40	1.0	@	20	2.5	DO-7	
FDH666	4.0	40	100	@	25	1.0	@	100	3.5	DO-35	
FDN666	4.0	40	100	@	25	1.0	@	100	3.5	DO-34	FDH666
1N905	4.0	40	100	@	20	1.0	@	10	1.0	DO-7	
1N906	4.0	40	100	@	20	1.0	@	10	2.5	DO-7	
1N4450	4.0	40	50	@	30	1.0	@	200	4.0	DO-35	
1N5319	4.0	40	100	@	25	1.0	@	100	3.5	DO-34	FDH666
1N904A	4.0	35	100	@	30	1.0	@	20	1.0	DO-7	
1N4009	4.0	35	100	@	25	1.0	@	30	4.0	DO-7	1N4154
1N4154	4.0	35	100	@	25	1.0	@	30	4.0	DO-35	1N4009
1N4536	4.0	35	100	@	25	1.0	@	30	4.0	DO-34	1N4154
1N905A	4.0	30	100	@	20	1.0	@	20	1.0	DO-7	
1N906A	4.0	30	100	@	20	1.0	@	20	2.5	DO-7	
1N3067	4.0	30	100	@	20	1.0	@	5	4.0	DO-7	
1N4727	4.0	30	100	@	20	0.85	@	10	4.0	DO-35	
1N4950	4.0	30	100	@	25	1.0	@	300	3.5	DO-7	
1N252	4.0	25	100	@	5	1.0	@	10		DO-7	
1N3596	4.0	20	100	@	20	1.0	@	30	1.0	DO-7	
FD6666	5.0	75	100	@	50	1.0	@	200	2.0	DO-7	
1N914 JAN	5.0	100	25	@	20	1.0	@	10	4.0	DO-7	1N4148
1N914 JANTX	5.0	100	25	@	20	1.0	@	10	4.0	DO-7	1N4148
1N3602	5.0	75	100	@	50	1.0	@	20	3.0	DO-7	
1N3603	5.0	45	100	@	35	1.0	@	30	3.0	DO-7	
1N4148 JAN	5.0	100	25	@	20	1.0	@	10	4.0	DO-35	1N914
1N4148 JANTX	5.0	100	25	@	20	1.0	@	10	4.0	DO-35	1N914
1N659	6.0	60	5	@	50	1.0	@	6		DO-7	
1N814	25	50	100	@	20	1.0	@	5	1.0	DO-7	
1N251 JAN	30	40	100	@	10	1.0	@	10	4.0	DO-7	
1N251	50	40	100	@	10	1.0	@	5	2.0	DO-7	

Preferred devices in bold type

DIODES
HIGH VOLTAGE SWITCHING DIODES (BY DESCENDING BV)
GLASS PACKAGE

TYPE	B _V	nA	I _R	V _R	VOLTS	V _F	I _F	C	t _{RR}	Package
	VOLTS		@			VOLTS		@	pF	
	MIN	MAX	@	VOLTS	MAX	@	mA	MAX	MAX	
1N843	250	100	@	200	1.0	@	150		300	DO-7
1N809	220	1000	@	200	1.0	@	100		300	DO-7
FD400	200	100	@	150	1.0	@	400	2.0	50	DO-7
FDH400	200	100	@	150	1.0	@	400	2.0	50	DO-35
FDN400	200	100	@	150	1.0	@	200	2.0	50	DO-34
1N629	200	1000	@	175	1.5	@	4		50	DO-7
1N643	200	25	@	10	1.0	@	10	3.0	50	DO-7
1N643 JAN	200	25	@	10	1.0	@	10		300	DO-7
1N643A	200	1000	@	100	1.0	@	100		300	DO-7
1N804	200	1000	@	40	1.0	@	50		50	DO-7
1N807	200	500	@	175	1.0	@	4		300	DO-7
1N839	200	100	@	175	1.0	@	150	5.0	500	DO-7
1N842	200	100	@	160	1.0	@	150		300	DO-7
1N845	200	100	@	160	1.0	@	200		500	DO-7
1N3070	200	100	@	175	1.0	@	100	5.0	40	DO-7
1N3070 JAN	200	100	@	175	1.0	@	100	5.0	40	DO-7
1N3070 JAN TX	200	100	@	175	1.0	@	100	5.0	40	DO-7
1N3071	200	100	@	150	1.0	@	100	5.0	40	DO-7
1N3597	200	100	@	150	1.2	@	400	5.0	30	DO-7
FD444	150	50	@	100	1.0	@	300	2.5	60	DO-7
FDH444	150	50	@	100	1.0	@	300	2.5	60	DO-35
FDN444	150	50	@	100	1.0	@	150	2.5	60	DO-34
1N251A	150	100	@	10	1.0	@	10		50	DO-7
1N628	150	1000	@	125	1.5	@	4		50	DO-7
1N801	150	100	@	125	1.0	@	10		500	DO-7
1N838	150	100	@	125	1.0	@	150		500	DO-7
1N841	150	100	@	120	1.0	@	150		300	DO-7
1N4363	150	100	@	120	1.0	@	200	3.0	40	DO-7
1N658 JAN	125	50	@	50	1.0	@	100		300	DO-7
1N806	125	500	@	100	1.0	@	4		50	DO-7
1N658	120	50	@	50	1.0	@	100		300	DO-7
1N660	120	5000	@	100	1.0	@	7		300	DO-7
1N928	120	100	@	10	1.0	@	10	4.0	150	DO-7
1N797	115	1000	@	100	1.0	@	10		500	DO-7
1N808	110	1000	@	100	1.0	@	100		300	DO-7
1N627	100	1000	@	75	1.5	@	4		50	DO-7
1N662	100	100	@	50	1.0	@	10	3.0	50	DO-7
1N662 JAN	100	5000	@	50	1.0	@	10		500	DO-7
1N662A	100	1000	@	10	1.0	@	100		300	DO-7
1N663	100	5000	@	75	1.0	@	100		500	DO-7
1N663 JAN	100	25	@	10	1.0	@	100		500	DO-7
1N663A	100	100	@	75	1.0	@	100		300	DO-7
1N778	100	500	@	100	1.0	@	10		300	DO-7
1N837	100	100	@	75	1.0	@	150		500	DO-7
1N837A	100	100	@	80	1.0	@	150		300	DO-7
1N794	75	5000	@	50	1.0	@	10		50	DO-7

Preferred devices in bold type

DIODES

HIGH VOLTAGE SWITCHING DIODES (BY DESCENDING BV)

GLASS PACKAGE

Continued

TYPE	B _V		I _R @	V _R VOLTS	VOLTS MAX	V _F @	I _F mA	C pF MAX	t _{RR} ns MAX	Package
	VOLTS MIN	nA MAX								
1N818	75	200	@	55	1.5	@	30	5.0	50	DO-7
1N927	65	100	@	10	1.0	@	10	4.0	150	DO-7
1N3069	65	100	@	60	1.0	@	50	6.0	50	DO-7
1N793	60	1000	@	50	1.0	@	10		50	DO-7
1N796	60	5000	@	50	1.0	@	100		500	DO-7
1N891	60	100	@	40	1.0	@	50		50	DO-7
1N626	50	1000	@	35	1.5	@	4		50	DO-7
1N840	50	100	@	40	1.0	@	150		300	DO-7
1N812	40	20	@	10	1.0	@	5		250	DO-7
1N625	30	1000	@	20	1.5	@	4		4	DO-7
1N789	30	100	@	20	1.0	@	10		500	DO-7
1N790	30	5000	@	20	1.0	@	10		250	DO-7
1N791	30	5000	@	20	1.0	@	50		500	DO-7
1N792	30	13	@	20	1.0	@	100		500	DO-7
1N811	30	1000	@	10	1.0	@	1		250	DO-7
1N3068	30	100	@	20	1.0	@	20	6.0	50	DO-7
1N815	25	500	@	5	1.0	@	30		250	DO-7
1N813	20	500	@	5	1.0	@	5		250	DO-7

DIODES
GENERAL PURPOSE DIODES (NUMERIC LISTING)
GLASS PACKAGE

TYPE	B _V VOLTS MIN	I _R nA MAX	I _R @ @	V _R VOLTS MAX	V _F VOLTS MAX	V _F @ @	I _F mA	C pF MAX	t _{RR} ns MAX	Package
1N461	30	500	@	25	1.0	@	15	10		DO-7
1N461A	30	500	@	25	1.0	@	100			DO-7
1N462	70	500	@	60	1.0	@	5	8.0		DO-7
1N462A	70	500	@	60	1.0	@	100			DO-7
1N463	200	500	@	175	1.0	@	1			DO-7
1N463A	200	500	@	175	1.0	@	100			DO-7
1N464	150	500	@	125	1.0	@	3	6		DO-7
1N464A	150	500	@	125	1.0	@	100			DO-7
1N482	40	100	@	30	1.1	@	100			DO-7
1N483	80	250	@	60	1.1	@	100			DO-7
1N484	150	250	@	125	1.1	@	100			DO-7
1N485	200	250	@	175	1.0	@	100			DO-7
1N619	30	80	@	10	1.0	@	3			DO-7
1N622	200	200	@	150	1.0	@	7			DO-7
1N661	240	350	@	200	1.0	@	7			DO-7
1N676	125	1000	@	100	1.0	@	400			DO-7
1N678	230	1000	@	200	1.0	@	200			DO-7
1N779	200	500	@	175	1.0	@	10			DO-7
1N795	75	5000	@	50	1.0	@	50			DO-7
1N799	150	5000	@	100	1.0	@	50			DO-7
1N816	6	100	@	4	1.0	@	100			DO-7
1N844	100	100	@	80	1.0	@	200		500	DO-7
1N925	40	1000	@	10	1.0	@	5		150	DO-7
1N926	40	100	@	10	1.0	@	5		50	DO-7

DIODES

LOW LEAKAGE DIODES (BY DESCENDING BV) GLASS PACKAGE

TYPE	BV		I _R	V _R	V _F		I _F	C		Package
	MIN	MAX			@	MAX		@	MAX	
1N486	250	50	@	225	1.1	@	100			DO-7
1N486A	250	25	@	225	1.0	@	100			DO-7
1N486B	250	50	@	225	1.0	@	100			DO-7
1N486B JAN	250	25	@	225	1.0	@	100			DO-7
1N486B JAN TX	250	25	@	225	1.0	@	100			DO-7
1N459	200	25	@	175	1.0	@	3			DO-7
1N459 JAN	200	25	@	175	1.0	@	3			DO-7
1N459A	200	25	@	175	1.0	@	100			DO-7
1N485A	200	25	@	175	1.0	@	100			DO-7
1N485B	200	25	@	175	1.0	@	100			DO-7
1N485B JAN	200	25	@	180	1.0	@	100			DO-7
1N485B JAN TX	200	25	@	180	1.0	@	100			DO-7
FD300	150	1.0	@	125	1.0	@	200	6.0		DO-7
FD333	150	3.0	@	125	1.0	@	200	10.0		DO-7
1N458	150	25	@	125	1.0	@	7			DO-7
1N458 JAN	150	25	@	125	1.0	@	7			DO-7
1N458A	150	5	@	125	1.0	@	100			DO-7
1N484A	150	25	@	125	1.0	@	100			DO-7
1N484B	150	25	@	125	1.0	@	100			DO-7
1N3595	150	1.0	@	125	1.0	@	200	8.0		DO-7
1N3595 JAN	150	1.0	@	125	1.0	@	200	8.0		DO-7
1N483A	80	25	@	60	1.0	@	100			DO-7
1N483B	80	25	@	60	1.0	@	100			DO-7
1N483B JAN	80	25	@	70	1.0	@	100			DO-7
1N483B JAN TX	80	25	@	70	1.0	@	100			DO-7
1N890	80	25	@	60	1.0	@	20			DO-7
1N457	70	25	@	60	1.0	@	20	8.0		DO-7
1N457 JAN	70	25	@	60	1.0	@	20			DO-7
1N457A	70	25	@	60	1.0	@	100	5.0		DO-7
1N482A	40	25	@	30	1.0	@	100			DO-7
1N482B	40	25	@	30	1.0	@	100			DO-7
FJT1100	35	0.01	@	20	1.0	@	10	1.3		DO-7
1N456	30	25	@	25	1.0	@	40	6.0		DO-7
1N456A	30	25	@	25	1.0	@	100	5.0		DO-7

Preferred devices in bold type

DIODES
HOT CARRIER DIODES
GLASS PACKAGE

TYPE	B _V	nA	I _R	V _R	VOLTS	V _F	I _F	C	NF	Package
	VOLTS		@			VOLTS		@	pF	
	MIN	MAX	@	VOLTS	MAX	@	mA	MAX	MAX	
FH1100	5	50	@	1.0	0.55	@	10	1.0	1.6	DO-7
1N5390	5	50	@	1.0	0.55	@	10	1.0	1.6	DO-7

VOLTAGE VARIABLE CAPACITOR DIODES
GLASS PACKAGE

TYPE	B _V	nA	I _R	V _R	C	Figure Of Merit (Q)	C ₁ /C ₄	C ₃ /C ₂₀	Package
	VOLTS		@				VOLTS	pF	
	MIN	MAX	@	VOLTS	MAX	MIN	V _{R2} =4.0V	V _{R20} =20V	
RF400	35	30	@	30	10	350	2.0	2.0	DO-34
RF401	35	30	@	30	7	350	2.0	2.0	DO-34

R.F. DIODES—BAND SWITCH
GLASS PACKAGE

TYPE	B _V		V _F	I _F	Series	Parallel	Series	C	Package
	VOLTS	VOLTS			Inductance	Resistance	Resistance	pF	
	MIN	MAX	@	mA	L _S nH MAX	R _P mΩ MAX	R _S Ω MAX	MAX	
RF100	35	1.0	@	100	2.0	1.0	1.0	1.0	DO-34
RF101	35	1.0	@	100	2.0	1.0	0.5	2.0	DO-34

R.F. DIODES—PIN
GLASS PACKAGE

TYPE	B _V	nA	I _R	V _R	VOLTS	V _F	I _F	Series	Series	Package
	VOLTS		@			VOLTS		@	Resistance	
	MIN	MAX	@	VOLTS	MAX	@	mA	R _S MAX ΩS	L _S nH MAX	
RF300	140	5	@	50	1.1	@	100	1.7 @ I _F =50mA	2.0	DO-34
								4.5 @ I _F =10mA		
								170 @ I _F =0.1mA		
								f= 100MHz		

DIODES

ZENER DIODES (BY ASCENDING Vz) GLASS PACKAGE

TYPE	V _Z @ I _Z	TOL	I _Z	Z _Z @ I _Z	I _R	T.C.	Package
	VOLTS NOMINAL	± V _Z %	TEST CURRENT mA	ohms MAX	μA @ V _R MAX @ VOLTS		
1N753	6.2	10	20	7.0	.1 @ 1.0	+045	DO-7
1N753A	6.2	5	20	7.0	.1 @ 1.0	+045	DO-7
1N753A JAN	6.2	5	20	7.0	.1 @ 1.0	+045	DO-7
1N754	6.8	10	20	5.0	.1 @ 1.0	+050	DO-7
1N754A	6.8	5	20	5.0	.1 @ 1.0	+050	DO-7
1N754A JAN	6.8	5	20	5.0	.1 @ 1.0	+050	DO-7
1N755	7.5	10	20	6.0	.1 @ 1.0	+058	DO-7
1N755A	7.5	5	20	6.0	.1 @ 1.0	+058	DO-7
1N755A JAN	7.5	5	20	6.0	.1 @ 1.0	+058	DO-7
1N756	8.2	10	20	8.0	.1 @ 1.0	+062	DO-7
1N756A	8.2	5	20	8.0	.1 @ 1.0	+068	DO-7
1N756A JAN	8.2	5	20	8.0	.1 @ 1.0	+068	DO-7
1N757	9.1	10	20	16	.1 @ 1.0	+068	DO-7
1N757A	9.1	5	20	16	.1 @ 1.0	+068	DO-7
1N757A JAN	9.1	5	20	16	.1 @ 1.0	+068	DO-7
1N758	10	10	20	17	.1 @ 1.0	+075	DO-7
1N758A	10	5	20	17	.1 @ 1.0	+075	DO-7
1N758A JAN	10	5	20	17	.1 @ 1.0	+075	DO-7
1N759	12	10	20	50	.1 @ 1.0	+077	DO-7
1N759A	12	5	20	50	.1 @ 1.0	+077	DO-7
1N759A JAN	12	5	20	50	.1 @ 1.0	+077	DO-7
1N957	6.8	20	18.5	4.5	10 @ 4.6	+050	DO-7
1N957A	6.8	10	18.5	4.5	10 @ 4.9	+050	DO-7
1N957B	6.8	5	18.5	4.5	10 @ 5.2	+050	DO-7
1N958	7.5	20	16.5	5.5	10 @ 5.1	+058	DO-7
1N958A	7.5	10	16.5	5.5	10 @ 5.4	+058	DO-7
1N958B	7.5	5	16.5	5.5	10 @ 5.7	+058	DO-7
1N959	8.2	20	15.0	6.5	5.0 @ 5.6	+062	DO-7
1N959A	8.2	10	15.0	6.5	5.0 @ 5.9	+062	DO-7
1N959B	8.2	5	15.0	6.5	5.0 @ 6.2	+062	DO-7
1N960	9.1	20	14.0	7.5	1.0 @ 6.3	+068	DO-7
1N960A	9.1	10	14.0	7.5	1.0 @ 6.6	+068	DO-7
1N960B	9.1	5	14.0	7.5	1.0 @ 6.9	+068	DO-7
1N961	10	20	12.5	8.5	1.0 @ 6.8	+072	DO-7
1N961A	10	10	12.5	8.5	1.0 @ 7.2	+072	DO-7
1N961B	10	5	12.5	8.5	1.0 @ 7.6	+072	DO-7
1N962	11	20	11.5	9.5	1.0 @ 7.6	+073	DO-7
1N962A	11	10	11.5	9.5	1.0 @ 8.0	+073	DO-7
1N962B	11	5	11.5	9.5	1.0 @ 8.4	+073	DO-7
1N962B JAN	11	5	11.5	9.5	1.0 @ 8.4	+073	DO-7
1N963	12	20	10.5	11.5	1.0 @ 8.0	+076	DO-7
1N963A	12	10	10.5	11.5	1.0 @ 8.6	+076	DO-7
1N963B	12	5	10.5	11.5	1.0 @ 9.1	+076	DO-7
1N963B JAN	12	5	10.5	11.5	1.0 @ 9.1	+076	DO-7
1N964	13	20	9.5	13	.1 @ 8.9	+079	DO-7
1N964A	13	10	9.5	13	.1 @ 9.4	+079	DO-7

DIODES

ZENER DIODES (BY ASCENDING V_Z)
GLASS PACKAGE

Continued

TYPE	V _Z @ I _Z	TOL	I _Z	Z _Z @ I _Z	I _R	V _R	T.C.	Package	
	VOLTS NOMINAL	± V _Z %	TEST CURRENT mA	ohms MAX					μA MAX
1N964B	13	5	9.50	13	.10	@	9.9	+079	D0-7
1N964B JAN	13	5	9.50	13	.10	@	9.9	+079	D0-7
1N965	15	20	8.50	16	.10	@	10	+082	D0-7
1N965A	15	10	8.50	16	.10	@	10.8	+082	D0-7
1N965B	15	5	8.50	16	.10	@	11.4	+082	D0-7
1N965B JAN	15	5	8.50	16	.10	@	11.4	+082	D0-7
1N966	16	20	7.80	17	.10	@	10.8	+083	D0-7
1N966A	16	10	7.80	17	.10	@	11.5	+083	D0-7
1N966B	16	5	7.80	17	.10	@	12.2	+083	D0-7
1N966B JAN	16	5	7.80	17	.10	@	12.2	+083	D0-7
1N967	18	20	7.00	21	.10	@	12.3	+085	D0-7
1N967A	18	10	7.00	21	.10	@	13	+085	D0-7
1N967B	18	5	7.00	21	.10	@	13.7	+085	D0-7
1N967B JAN	18	5	7.00	21	.10	@	13.7	+085	D0-7
1N968	20	20	6.20	25	.10	@	13.6	+086	D0-7
1N968A	20	10	6.20	25	.10	@	14.4	+086	D0-7
1N968B	20	5	6.20	25	.10	@	15.2	+086	D0-7
1N968B JAN	20	5	6.20	25	.10	@	15.2	+086	D0-7
1N969	22	20	5.60	29	.10	@	14.9	+087	D0-7
1N969A	22	10	5.60	29	.10	@	15.8	+087	D0-7
1N969B	22	5	5.60	29	.10	@	16.7	+087	D0-7
1N969B JAN	22	5	5.60	29	.10	@	16.7	+087	D0-7
1N970	24	20	5.20	33	.10	@	16.4	+088	D0-7
1N970A	24	10	5.20	33	.10	@	17.3	+088	D0-7
1N970B	24	5	5.20	33	.10	@	18.2	+088	D0-7
1N970B JAN	24	5	5.20	33	.10	@	18.2	+088	D0-7
1N971	27	20	4.60	41	.10	@	18.2	+090	D0-7
1N971A	27	10	4.60	41	.10	@	19.4	+090	D0-7
1N971B	27	5	4.60	41	.10	@	20.6	+090	D0-7
1N971B JAN	27	5	4.60	41	.10	@	20.6	+090	D0-7
1N972	30	20	4.20	49	.10	@	20.4	+091	D0-7
1N972A	30	10	4.20	49	.10	@	21.6	+091	D0-7
1N972B	30	5	4.20	49	.10	@	22.8	+091	D0-7
1N972B JAN	30	5	4.20	49	.10	@	22.8	+091	D0-7
1N973	33	20	3.80	58	.05	@	22.5	+092	D0-7
1N973A	33	10	3.80	58	.05	@	23.8	+092	D0-7
1N973B	33	5	3.80	58	.05	@	25.1	+092	D0-7
1N973B JAN	33	5	3.80	58	.05	@	25.1	+092	D0-7

DIODES

VOLTAGE REFERENCE ZENER DIODES (NUMERIC LISTING) METAL PACKAGE

TYPE	V _Z @ I _Z	I _Z	TEMPERATURE COEFFICIENT	T.C.	Z _Z @ I _Z	Package
	VOLTS ±5%	mA (TEST)	TEMP RANGE °C	%/°C	ohms MAX	
FCT1021	6.7	0.1	0 to +100	±.001	750	T0-18
FCT1022	6.7	0.1	0 to +100	±.002	750	T0-18
FCT1025	6.7	0.1	0 to +100	±.005	750	T0-18
FCT1121	6.7	0.1	-55 to +100	±.001	750	T0-18
FCT1122	6.7	0.1	-55 to +100	±.002	750	T0-18
FCT1125	6.7	0.1	-55 to +100	±.005	750	T0-18

MATCHED DIODE ASSEMBLIES (NUMERIC LISTING) GLASS AND PLASTIC

NUMBER OF DIODES	2		2	4	4	4	
CONFIGURATION	PAIR		PAIR	QUAD	QUAD	BRIDGE	
PACKAGE	(308)		DO-7 or DO-35	(310)	DO-7 or DO-35	(309)	
V _F MATCHING (-55°C to +100°C)							
BASIC DIODE	I _F RANGE	Δ V _F	TYPE	TYPE	TYPE	TYPE	
SPECIFICATION	mA	mV					
1N914	0.01 – 1.0	3	FA2310 E	FA2310 U	FA4310 E	FA4310 U	FA3310
1N914	0.01 – 1.0	10	FA2311 E	FA2311 U	FA4311 E	FA4311 U	FA3311
1N914	1.0 – 10	5	FA2312 E	FA2312 U	FA4312 E	FA4312 U	FA3312
1N914	1.0 – 10	15	FA2313 E	FA2313 U	FA4313 E	FA4313 U	FA3313
1N3070	0.01 – 1.0	3	FA2320 E	FA2320 U	FA4320 E	FA4320 U	FA3320
1N3070	0.01 – 1.0	10	FA2321 E	FA2321 U	FA4321 E	FA4321 U	FA3321
1N3070	1.0 – 10	5	FA2322 E	FA2322 U	FA4322 E	FA4322 U	FA3322
1N3070	1.0 – 10	15	FA2323 E	FA2323 U	FA4323 E	FA4323 U	FA3323
1N3070	10 – 100	10	FA2324 E	FA2324 U	FA4324 E	FA4324 U	FA3324
1N3070	10 – 100	20	FA2325 E	FA2325 U	FA4325 E	FA4325 U	FA3325
1N3070	10 – 100	10	FA2360 E	FA2360 U	FA4360 E	FA4360 U	FA3360
1N3070	10 – 100	20	FA2361 E	FA2361 U	FA4361 E	FA4361 U	FA3361
1N3595	0.01 – 1.0	10	FA2330 E	FA2330 U	FA4330 E	FA4330 U	FA3330
1N3595	1.0 – 10	15	FA2331 E	FA2331 U	FA4331 E	FA4331 U	FA3331
1N3595	10 – 100	20	FA2332 E	FA2332 U	FA4332 E	FA4332 U	FA3332
1N3595	0.01 – 1.0	10	FA2333 E	FA2333 U	FA4333 E	FA4333 U	FA3333
1N3595	1.0 – 10	15	FA2334 E	FA2334 U	FA4334 E	FA4334 U	FA3334
1N3595	10 – 100	20	FA2335 E	FA2335 U	FA4335 E	FA4335 U	FA3335
1N4306	0.1 – 10	10	1N4306				
1N4306 JAN	0.1 – 10	10	1N4306 JAN				
1N4307	0.1 – 10	10			1N4307		
1N4307 JAN	0.1 – 10	10			1N4307 JAN		

DIODES

MONOLITHIC DIODE ARRAYS (BY DESCENDING NUMBER OF JUNCTIONS) PLASTIC—METAL—CERAMIC PACKAGES

CIRCUIT	TYPE	B_V	I_R	V_F	C	t_{RR}	PACKAGE	
		VOLTS	nA @ V_R	VOLTS @ I_F	pF	ns	OUTLINE	DESCRIPTION
		MIN	MAX @ VOLTS	MAX @ mA	MAX	MAX		
	FSA2500M	60	100 @ 50	1.5 @ 500	7	50	TO-91	Ceramic FP — 10L
	FSA2501M	60	100 @ 50	1.5 @ 500	7	50	TO-116	Ceramic Dip — 14L
	FSA2502M	60	100 @ 50	1.5 @ 500	7	50	TO-96	Metal Can — 10L
	FSA2510M	60	100 @ 40	1.3 @ 500	5	50	TO-116	Plastic Dip — 14L
	FSA2503M	60	100 @ 50	1.5 @ 500	7	50	TO-116	Ceramic Dip — 14L
	FSA2504M	60	100 @ 50	1.5 @ 500	7	50	TO-86	Ceramic FP — 14L
	FSA2509M	60	100 @ 40	1.3 @ 500	5	50	TO-116	Plastic Dip — 14L
	FSA2508M	60	100 @ 40	1.3 @ 500	5	50	(9B)	Plastic Dip — 16L
	FSA2565M	60	100 @ 40	1.3 @ 500	3	50	TO-116	Plastic Dip — 14L
	FSA2566M	60	100 @ 40	1.3 @ 500	3	50	TO-116	Plastic Dip — 14L
	FSA1411M	60	100 @ 40	1.5 @ 500	3	50	TO-96	Metal Can — 10L
	FSA2002M	60	100 @ 40	1.5 @ 500	3	50	TO-91	Ceramic FP — 10L
	FSA2563M	60	100 @ 40	1.3 @ 500	3	50	TO-116	Plastic Dip — 14L
	FSA1410M	60	100 @ 40	1.5 @ 500	3	50	TO-96	Metal Can — 10L
	FSA2003M	60	100 @ 40	1.5 @ 500	3	50	TO-91	Ceramic FP — 10L
	FSA2564M	60	100 @ 40	1.3 @ 500	3	50	TO-116	Plastic Dip — 14L
	FSA2619M	100	25µA @ 20	1.0 @ 10	4	4	(9B)	Plastic Dip — 16L
	FSA2620M	100	25µA @ 20	1.0 @ 10	4	4	(9A)	Plastic Dip — 14L
	FSA2621M	100	25µA @ 20	1.0 @ 10	4	4	TO-86	Ceramic FP — 14L
	FSA2702M	60	100 @ 40	1.0 @ 200	3	8	TO-78	Metal Can — 4L
	FSA2703M	60	100 @ 40	1.0 @ 200	3	8	TO-72	Metal Can — 4L
	FSA2704M	60	100 @ 40	1.0 @ 200	3	8	TO-78	Metal Can — 4L
	FSA2705M	60	100 @ 40	1.0 @ 200	3	8	TO-72	Metal Can — 4L

DIODES

UNENCAPSULATED (BY DESCENDING BV)

TYPE	BASIC STANDARD DEVICE	B _V VOLTS		I _R nA @ V _R VOLTS		V _F VOLTS @ I _F mA		t _{RR} ns @ I _F =I _R MAX		C pF MAX	CHIP SIZE MILS	BASIC APPLICATION
		MIN	MAX		MAX		MAX		MAX			
FDC3070	1N3070	200	100	@ 175	1.0	@ 100	50	@ 10	2.5	17.5 x 17.5	High Voltage Switching	
FDC485B	1N485B	200	25	@ 175	1.0	@ 100	500	@ 10	5.0	17.5 x 17.5	High Voltage Low Leakage	
FDC3600	1N3600	75	100	@ 50	1.0	@ 100	4.0	@ 10	2.5	17.5 x 17.5	General Purpose Switching	
FDC4376	1N4376	20	100	@ 10	1.1	@ 50	0.8	@ 10	1.2	17.5 x 17.5	Ultra High Speed Switching	

RECTIFIERS

GENERAL PURPOSE RECTIFIERS (BY ASCENDING V_R) GLASS PACKAGE

TYPE	V _R VOLTS MIN	I _R @ V _R μA MAX	VOLTS MAX	V _F @ I _F VOLTS MAX	I _F AMPS	VOLTS MAX	V _{FM} @ I _O AMPS	PACKAGE
1N4001	50	10	1.1	@ 1.0	1.6	@ 1.0	D0-41	
1N4002	100	10	1.1	@ 1.0	1.6	@ 1.0	D0-41	
1N4003	200	10	1.1	@ 1.0	1.6	@ 1.0	D0-41	
1N4004	400	10	1.1	@ 1.0	1.6	@ 1.0	D0-41	
1N4005	600	10	1.1	@ 1.0	1.6	@ 1.0	D0-41	

TRANSISTORS—SMALL SIGNAL

NPN HIGH SPEED SATURATED SWITCHING TRANSISTORS (BY ASCENDING V_{CEO}) METAL PACKAGE

(FOR MEDIUM SPEED — SEE GENERAL PURPOSE SECTION)

TYPE	V _{CEO} (V _{CER}) VOLTS		t _s (t _{off}) ns @ I _C	h _{FE}		V _{CE(sat)} VOLTS @ I _C		f _T MHz	C _{ob} pF	P _D		PNP Complement	
	MIN	MAX	mA	MIN	MAX	mA	MAX	mA	MIN	MAX	T _A 25°C		T _C 25°C
													Package
2N834		25	@ 10	25	@ 10		0.25 @ 10	350	4.0	300	1.0	TO-18	2N2894A
2N709	6	6	@ 5	20 - 120	@ 10		0.30 @ 3	600	3.0	300	0.5	TO-18	2N4207
FT709	6	6	@ 5	30 - 125	@ 10		0.25 @ 10	600	3.0	300	0.5	TO-18	2N4207
2N3010	6	6	@ 5	25 - 125	@ 10		0.25 @ 10	600	3.0	300		TO-18	2N4207
2N709A	6	6	@ 5	30 - 90	@ 10		0.30 @ 3	800	3.0	300	0.5	TO-18	2N4207
2N2475	6	6	@ 5	30 - 150	@ 20		0.40 @ 20	600	3.0	500	0.3	TO-18	2N2894A
2N3647	10	(20)	@ 150	25 - 150	@ 150		0.40 @ 150	350	4.0	400	2.0	TO-46	
2N3510	10	(25)	@ 150	25 - 150	@ 150		0.40 @ 150	350	4.0	360	1.2	TO-52	2N5455
2N3011	12	13	@ 10	30 - 120	@ 10		0.20 @ 10	400	4.0	360	1.2	TO-18	2N4207
2N743	12	14	@ 10	20 - 60	@ 10		0.35 @ 10	280	5.0	300	1.0	TO-18	2N2894A
2N744	12	18	@ 10	40 - 120	@ 10		0.35 @ 10	280	5.0	300	1.0	TO-18	2N2894A
2N744JAN	12	18	@ 10	40 - 120	@ 10		0.35 @ 10	280	5.0	300	1.0	TO-18	2N2894A
2N1708	12	25	@ 10	20	@ 10		0.22 @ 10	200	6.0	300	1.0	TO-46	
2N2205	12	25	@ 10	20	@ 10		0.22 @ 10	200	6.0	300	1.0	TO-18	2N2894A
2N2206	12	35	@ 10	40	@ 10		0.22 @ 10	200	6.0	300	1.0	TO-46	
2N2368	15	10	@ 10	20 - 60	@ 10		0.25 @ 10	400	4.0	360	1.2	TO-18	2N5056
2N834A	15	10	@ 10	25	@ 10		0.25 @ 10	500	4.0	360	1.2	TO-18	2N5056
2N4449	15	13	@ 10	40	@ 10		0.20 @ 10	500	4.0	300	1.5	TO-46	
2N2369	15	13	@ 10	40 - 120	@ 10		0.25 @ 10	500	4.0	360	1.2	TO-18	2N5057
2N2369A	15	13	@ 10	40 - 120	@ 10		0.20 @ 10	500	4.0	360	1.2	TO-18	2N5057
2N2369AJAN*	15	13	@ 10	40 - 120	@ 10		0.20 @ 10	500	4.0	360	1.2	TO-18	2N5057
2N3009	15	18	@ 10	30 - 120	@ 30		0.18 @ 30	350	5.0	360	1.2	TO-52	2N5455
2N3013	15	18	@ 10	30 - 120	@ 30		0.18 @ 30	350	5.0	360	1.2	TO-52	2N5455
2N3511	15	(18)	@ 150	30 - 120	@ 150		0.40 @ 150	450	4.0	360	1.2	TO-52	2N5455
2N914	15	20	@ 20	30 - 120	@ 10		0.25 @ 20	300	6.0	360	1.2	TO-18	2N5455
2N914JAN*	15	20	@ 20	30 - 120	@ 10		0.25 @ 20	300	6.0	360	1.2	TO-18	2N5455
2N2481	15	20	@ 10	40 - 120	@ 10		0.25 @ 10	300	5.0	360	1.2	TO-18	2N5057
2N2481JAN	15	20	@ 10	40 - 120	@ 10		0.25 @ 10	300	5.0	360	1.2	TO-18	2N5057
2N706A	15	25	@ 10	20 - 60	@ 10		0.60 @ 10	200	5.0	300	1.0	TO-18	2N5056
2N706B	15	25	@ 10	20 - 60	@ 10		0.60 @ 10	200	5.0	300	1.0	TO-18	2N5056
2N708	15	25	@ 10	30 - 120	@ 10		0.40 @ 10	300	6.0	360	1.2	TO-18	2N5056
2N708JAN*	15	25	@ 10	30 - 120	@ 10		0.40 @ 10	300	6.0	360	1.2	TO-18	2N5056
2N1708A	15	25	@ 10	30 - 120	@ 10		0.22 @ 10	300	6.0	300	1.0	TO-46	
2N2242	15	25	@ 10	40 - 120	@ 10		0.30 @ 10	250	6.0	360		TO-18	2N5056
2N3648	15	(28)	@ 150	30 - 120	@ 150		0.40 @ 150	450	4.0	400	2.0	TO-46	
2N706 JAN	15	35	@ 10	30 - 120	@ 10		0.50 @ 10	200	6.0	360	1.2	TO-18	2N5056
2N753	15	35	@ 10	40 - 120	@ 10		0.60 @ 10	200	5.0	300	1.0	TO-18	2N5057
2N947	(15)	50	@ 10	30	@ 10		0.40 @ 5	200	8.0	360	1.2	TO-18	2N5056
2N784	16	15	@ 10	25	@ 10		0.16 @ 10	200	3.5	300	1.0	TO-18	2N5056
2N783	(20)	10	@ 10	20 - 60	@ 10		0.25 @ 10	200	3.5	300	1.0	TO-18	2N3209
2N4137	20	13	@ 10	40 - 120	@ 10		0.30 @ 10	500	4.0	360	1.2	TO-18	2N3209
2N2710	20	15	@ 10	40	@ 10		0.25 @ 10	500	4.0	360	1.2	TO-18	2N3209
2N3014	20	18	@ 10	30 - 120	@ 30		0.18 @ 30	350	5.0	360	1.2	TO-52	2N5456
2N3013 JAN	20	18	@ 10	35 - 120	@ 30		0.18 @ 30	350	5.0	360	1.2	TO-52	2N5456
2N2651	20	25	@ 10	25	@ 10		0.25 @ 10	350	4.0	360	1.2	TO-18	2N5456

* JAN TX also available.

Preferred devices in bold type

TRANSISTORS—SMALL SIGNAL

NPN HIGH SPEED SATURATED SWITCHING TRANSISTORS (BY ASCENDING V_{CE0})

METAL PACKAGE

(FOR MEDIUM SPEED — SEE GENERAL PURPOSE SECTION)

Continued

TYPE	V_{CE0} (V_{CER})		t_s (t_{off})	h_{FE}		$V_{CE(sat)}$		f_T	C_{ob}	P_D		Package	PNP Complement
	VOLTS		ns @ I_C	h_{FE}	@ I_C	VOLTS @ I_C		MHz	pF	T_A	T_C		
	MIN	MAX	mA	MIN - MAX	mA	MAX	mA	MIN	MAX	25°C	25°C		
2N835	20	35	@ 10	20	@ 10	0.30	@ 10	300	4.0	300	1.0	TO-18	2N5456
2N2847	20	(40)	@ 150	40 - 140	@ 150	0.40	@ 150	250	8.0	360	1.2	TO-18	
2N2848	20	(40)	@ 150	40 - 140	@ 150	0.40	@ 150	250	8.0	800	3.0	TO-5	
2N2476	20	(45)	@ 150	20	@ 150	0.40	@ 150	250	10.0	600	2.0	TO-5	
2N2477	20	(45)	@ 150	40	@ 150	0.40	@ 150	250	10.0	600	2.0	TO-5	
2N706	(20)	60	@ 10	20	@ 10	0.60	@ 10	200	6.0	300	1.0	TO-18	2N2894
2N1252	(20)	(150)	@ 150	15 - 45	@ 150	1.50	@ 150	40	45.0	600	2.0	TO-5	
2N1253	(20)	(150)	@ 150	30 - 90	@ 150	1.50	@ 150	50	45.0	600	2.0	TO-5	
2N2845	30	(40)	@ 150	30 - 120	@ 150	0.40	@ 150	250	8.0	360	1.2	TO-18	
2N2846	30	(40)	@ 150	30 - 120	@ 150	0.40	@ 150	250	8.0	800	3.0	TO-5	
2N2410	30	(55)	@ 150	30 - 120	@ 150	0.45	@ 150	200	11.0	800	2.5	TO-5	
2N3015	30	(60)	@ 300	30 - 120	@ 150	0.40	@ 150	250	8.0	800	3.0	TO-5	
2N4046	30	(60)	@ 500	40 - 150	@ 100	0.20	@ 100	250	12.0	800	3.5	TO-5	2N5023
2N3724	30	(60)	@ 500	60 - 150	@ 100	0.20	@ 100	300	12.0	800	3.5	TO-5	2N5023
2N4013	30	(60)	@ 500	60 - 150	@ 100	0.20	@ 100	300	12.0	360	1.2	TO-18	
2N3734	30	(60)	@ 1000	30 - 120	@ 1000	0.90	@ 1000	300	9.0	1000	4.0	TO-5	2N5023
2N3252	30	(70)	@ 500	30 - 90	@ 500	0.50	@ 500	200	12.0	1000	5.0	TO-5	2N5023
2N3253	40	(70)	@ 500	25	@ 150	0.35	@ 150	175	12.0	1000	5.0	TO-5	2N5022
2N4047	50	(60)	@ 500	40 - 150	@ 100	0.26	@ 100	250	10.0	800	3.5	TO-5	2N5022
2N3725	50	(60)	@ 500	60 - 150	@ 100	0.26	@ 100	300	10.0	800	3.5	TO-5	2N5022
2N4014	50	(60)	@ 500	60 - 150	@ 100	0.26	@ 100	300	10.0	360	1.2	TO-18	
2N3444	50	(70)	@ 500	20 - 60	@ 500	0.60	@ 500	150	12.0	1000	5.0	TO-5	2N5022
2N3722	60	(100)	@ 500	40 - 150	@ 100	0.22	@ 100	300	10.0	800	4.0	TO-5	
2N3723	80	(130)	@ 500	40 - 150	@ 100	0.28	@ 100	300	9.0	800	4.0	TO-5	

Preferred devices in bold type

TRANSISTORS—SMALL SIGNAL

NPN HIGH SPEED SATURATED SWITCHING TRANSISTORS (BY ASCENDING V_{CEO}) PLASTIC PACKAGE

(FOR MEDIUM SPEED — SEE GENERAL PURPOSE SECTION)

TYPE	V _{CEO} (V _{CER}) VOLTS		t _s (t _{off}) ns @ I _C	h _{FE} @ I _C		V _{CE(sat)} VOLTS @ I _C		f _T MHz	C _{ob} pF	P _D		PNP Complement	
	MIN	MAX	mA	MIN - MAX	mA	MAX	mA	MIN	MAX	T _A 25°C	T _C 25°C		Package
MPS834			25 @ 10	25	@ 10	0.25 @ 10		350	4.0	625	1.0	TO-92	MPSL08
2N5134	10	18	@ 10	20 - 150	@ 10	0.25 @ 10		250	4.0	200	0.5	TO-106	2N5140
EN3011	12	13	@ 10	30 - 120	@ 10	0.20 @ 10		400	4.0	200	0.5	TO-106	EN2894A
2N4274	12	13	@ 10	35 - 120	@ 10	0.20 @ 10		400	4.0	280	0.83	TO-106	2N2894A
EN744	12	18	@ 10	40 - 120	@ 10	0.30 @ 10		280	5.0	200	0.5	TO-106	EN2984A
2N4265	12	20	@ 10	100 - 400	@ 10	0.22 @ 10		300	4.0	310		TO-92	MPSL08
2N5224	12	(60)	@ 10	40 - 400	@ 10	0.35 @ 10		250	4.0	310		TO-92	MPSL08
2N4275	15	13	@ 10	35 - 120	@ 10	0.20 @ 10		400	4.0	280	0.83	TO-106	2N5910
EN2369A	15	13	@ 10	40	@ 10	0.20 @ 10		500	4.0	200	0.5	TO-106	2N5910
MPS2369	15	13	@ 10	40 - 120	@ 10	0.25 @ 10		500	4.0	625	1.0	TO-92	2N5771
2N5769	15	13	@ 10	40 - 120	@ 10	0.20 @ 10		500	4.0	625	1.0	TO-92	2N5771
EN3009	15	18	@ 10	30 - 120	@ 30	0.18 @ 30		350	5.0	200	0.5	TO-106	
EN3013	15	20	@ 20	30 - 120	@ 10	0.40 @ 10		300	6.0	200	0.5	TO-106	
MPS3646	15	18	@ 10	30 - 120	@ 30	0.20 @ 30		350	5.0	625	1.0	TO-92	
SE3646	15	18	@ 10	30 - 120	@ 30	0.20 @ 30		350	5.0	200	0.5	TO-106	
2N3646	15	18	@ 10	30 - 120	@ 30	0.20 @ 30		350	5.0	200	0.5	TO-106	
2N5772	15	18	@ 10	30 - 120	@ 30	0.20 @ 30		350	5.0	625	1.0	TO-92	
EN708	15	20	@ 20	30 - 120	@ 10	0.40 @ 10		300	6.0	200	0.5	TO-106	2N5910
EN914	15	20	@ 20	30 - 120	@ 10	0.25 @ 20		300	6.0	200	0.5	TO-106	
2N4264	15	20	@ 10	40 - 160	@ 10	0.22 @ 10		300	4.0	310		TO-92	
EN706	15	60	@ 10	20	@ 10	0.60 @ 10		200	6.0	200	0.5	TO-106	2N5910
MPS2713	18			30 - 90	@ 2	0.30 @ 2		250	2.5	625	1.0	TO-92	
MPS2714	18			75 - 225	@ 2	0.30 @ 2		250	2.5	625	1.0	TO-92	
EN3014	20	18	@ 10	30 - 120	@ 30	0.18 @ 30		350	5.0	200	0.5	TO-106	
MPS706A	(20)	25	@ 10	20 - 60	@ 10	0.60 @ 10		200	6.0	625	1.0	TO-92	MPS3640
MPS706	(20)	60	@ 10	20	@ 10	0.60 @ 10		200	6.0	625	1.0	TO-92	MPS3640
2N5845A	40	(50)	@ 500	35 - 150	@ 500	0.50 @ 500		250	9.0	500	1.2	TO-92	
2N5845	40	(60)	@ 500	25 - 150	@ 500	0.60 @ 500		200	9.0	500	1.2	TO-92	

Preferred devices in bold type

TRANSISTORS—SMALL SIGNAL

PNP HIGH SPEED SATURATED SWITCHING TRANSISTORS (BY ASCENDING V_{CE0})

METAL PACKAGE

(FOR MEDIUM SPEED — SEE GENERAL PURPOSE SECTION)

TYPE	V_{CE0} (V_{CER}) VOLTS		t_s (t_{off}) ns @ I_C	h_{FE} @ I_C	$V_{CE(sat)}$ VOLTS @ I_C	f_T MHz	C_{ob} (C_{cb}) pF	P_D		NPN Complement	
	MIN	MAX	mA	MIN - MAX	mA	MAX	mA	MIN	MAX		
	MIN	MAX	mA	MIN - MAX	mA	MAX	mA	MIN	MAX		
2N4207	6	15	@ 10	50 - 120 @ 10	0.15 @ 10	650	3.0	350	0.7	TO-18	2N2369A
2N3304	6	30	@ 10	30 - 120 @ 10	0.16 @ 10	500	3.5	300	0.5	TO-18	2N709
2N4208	12	20	@ 10	30 - 120 @ 10	0.15 @ 10	700	3.0	350	0.7	TO-18	2N2369A
2N2894A	12	20	@ 10	40 - 120 @ 30	0.19 @ 30	800	4.5	360	1.2	TO-18	2N2369A
2N3546	12	(30)	@ 50	30 - 120 @ 10	0.15 @ 10	700	6.0	360	1.2	TO-18	2N914
2N3012	12	(75)	@ 30	30 - 120 @ 30	0.20 @ 30	400	6.0	360	1.2	TO-18	2N2369A
2N2894	12	(90)	@ 30	30 - 150 @ 30	0.20 @ 30	400	6.0	360	1.2	TO-18	2N2369A
2N4209	15	20	@ 10	50 - 120 @ 10	0.18 @ 10	850	3.0	350	0.7	TO-18	2N2369A
2N5056	15	30	@ 10	30 - 100 @ 30	0.13 @ 30	600	4.5	360	1.2	TO-18	2N2369A
2N5057	15	30	@ 10	40 - 100 @ 30	0.19 @ 30	800	4.5	360	1.2	TO-18	2N2369A
2N5455	15	35	@ 10	30 - 120 @ 30	0.15 @ 30	450	(6.0)	340	1.0	TO-52	2N3013
2N3209	20	(90)	@ 30	30 - 120 @ 30	0.20 @ 30	400	5.0	360	1.2	TO-18	2N4137
2N5456	25	35	@ 10	30 - 120 @ 30	0.15 @ 30	450	(6.0)	340	1.0	TO-52	2N3014
2N5023	30	(90)	@ 500	40 - 100 @ 500	0.35 @ 500	200	25.0	1000	4.0	TO-39	2N3724
2N3467	40	(90)	@ 500	40 - 120 @ 500	0.50 @ 500	175	25.0	1000	5.0	TO-5	2N3725
2N5022	50	(90)	@ 500	25 - 100 @ 500	0.40 @ 500	170	25.0	1000	4.0	TO-39	2N3725
2N3468	50	(90)	@ 500	25 - 75 @ 500	0.60 @ 500	150	25.0	1000	5.0	TO-5	2N3725

PNP HIGH SPEED SATURATED SWITCHING TRANSISTORS (BY ASCENDING V_{CE0})

PLASTIC PACKAGE

TYPE	V_{CE0} (V_{CER}) VOLTS		t_s (t_{off}) ns @ I_C	h_{FE} @ I_C	$V_{CE(sat)}$ VOLTS @ I_C	f_T MHz	C_{ob} pF	P_D		NPN Complement	
	MIN	MAX	mA	MIN - MAX	mA	MAX	mA	MIN	MAX		
	MIN	MAX	mA	MIN - MAX	mA	MAX	mA	MIN	MAX		
2N5140	5	(20)	@ 10	20 - 140 @ 10	0.20 @ 10	400	5.0	200	0.5	TO-106	2N5134
2N5228	5	(140)	@ 10	30 @ 10	0.40 @ 10	300	5.0	310		TO-92	2N5224
2N4257A	6	12	@ 10	30 - 120 @ 10	0.15 @ 10	500	3.0	200	0.5	TO-106	2N4274
2N4257	6	15	@ 10	30 - 120 @ 10	0.15 @ 10	500	3.0	200	0.5	TO-106	2N4274
MPSL07	6	15	@ 10	30 - 120 @ 10	0.15 @ 10	500	3.0	625	1.0	TO-92	MPS2369
MPS3639	6	(25)	@ 50	30 - 120 @ 10	0.16 @ 10	500	3.5	625	1.0	TO-92	MPS2369
2N3639	6	30	@ 10	30 - 120 @ 10	0.16 @ 10	500	3.5	200	0.5	TO-106	2N4274
2N5141	6	(150)	@ 30	25 @ 10	0.20 @ 10	300	7.0	200	0.5	TO-106	2N5134
2N4258A	12	15	@ 10	30 - 120 @ 10	0.15 @ 10	700	3.0	200	0.5	TO-106	2N4274
2N4258	12	20	@ 10	30 - 120 @ 10	0.15 @ 10	700	3.0	200	0.5	TO-106	2N4274
MPSL08	12	20	@ 10	30 - 120 @ 10	0.15 @ 10	700	3.0	625	1.0	TO-92	MPS2369
2N5055	12	20	@ 10	30 - 100 @ 30	0.19 @ 30	550	4.5	200	0.5	TO-106	2N4274
2N4313	12	20	@ 10	30 - 120 @ 30	0.19 @ 30	700	4.5	200	0.5	TO-106	2N4274
EN2894A	12	20	@ 10	40 - 120 @ 30	0.19 @ 30	800	4.5	200	0.5	TO-106	EN2369A
MPS3640	12	(35)	@ 50	30 - 120 @ 10	0.20 @ 10	500	3.5	625	1.0	TO-92	2N5772
2N3640	12	50	@ 10	30 - 120 @ 10	0.20 @ 10	500	3.5	200	0.5	TO-106	2N4274
2N4389	12	(90)	@ 50	30 - 180 @ 10	0.15 @ 10	400	6.0	200	0.5	TO-106	2N4274
2N5771	15	20	@ 10	50 - 120 @ 10	0.15 @ 10	850	3.0	625	1.0	TO-92	2N5772
2N5910	20	20	@ 10	30 - 120 @ 10	0.15 @ 10	700	3.0	200	0.5	TO-106	EN3014

Preferred devices in bold type

TRANSISTORS—SMALL SIGNAL

NPN GENERAL PURPOSE AMPLIFIER AND SWITCHING TRANSISTORS (BY ASCENDING V_{CE0}) METAL PACKAGE

(ALSO SEE LOW LEVEL AND HIGH VOLTAGE SECTION)

TYPE	V_{CE0} (V_{CER})		h_{FE}		$V_{CE(sat)}$		C_{ob}	f_T	t_{off}	P_D		PNP Complement
	VOLTS		h_{FE}	@ I_C	VOLTS @ I_C		pF	MHz	ns	T_A	T_C	
	MIN	MIN - MAX		mA	MAX	mA	MAX	MIN	MAX	25°C	25°C	
2N957	20	45 @ 10			1.50 @ 10		6.0	200		250	0.8	TO-18 2N3250
2N2959	20	100 - 300 @ 150			0.50 @ 150		8.0	250	500	600	3.0	TO-5 2N3134
2N3116	20	100 - 300 @ 150			0.50 @ 150		8.0	250	500	500	1.8	TO-18 2N3136
2N2958	20	40 - 120 @ 150			0.50 @ 150		8.0	250	500	600	3.0	TO-5 2N3133
2N3115	20	40 - 120 @ 150			0.50 @ 150		8.0	250	500	400	1.8	TO-18 2N3135
2N916	25	50 - 200 @ 10			0.50 @ 10		6.0	300		360	1.2	TO-18 FT3905
2N703	25	40 - 100 @ 10			0.50 @ 10		0.5	70		300	0.6	TO-18 FT3905
2N1986	25	60 - 240 @ 150			1.50 @ 150		35.0	40		600	2.0	TO-5 2N2801
2N2195	25	20 @ 150			0.35 @ 150		20.0	50		600	2.8	TO-5 2N3133
2N2195A	25	20 @ 150			0.25 @ 150		20.0	50		600	2.8	TO-5 2N3133
2N2195B	25	20 @ 150			0.18 @ 150		20.0	50		600	2.8	TO-5 2N3133
2N1987	25	20 - 80 @ 150			1.50 @ 150		35.0	40		600	2.0	TO-5 2N3133
2N1420A	28	100 - 300 @ 150			1.50 @ 150		25.0	60		800	3.0	TO-5 2N3134
2N1420	28	100 - 300 @ 150			1.50 @ 150		35.0	50		600	2.0	TO-5 2N3134
2N718	28	40 - 120 @ 150			1.50 @ 150		35.0	50		400	1.5	TO-18 2N3135
2N717	28	20 - 60 @ 150			1.50 @ 150		35.0	40		400	1.5	TO-18 2N2800
2N2219	30	100 - 300 @ 150			0.40 @ 150		8.0	250		800	3.0	TO-5 2N2905
2N2219JAN*	30	100 - 300 @ 150			0.40 @ 150		8.0	250		800	3.0	TO-5 2N2905
2N2222	30	100 - 300 @ 150			0.40 @ 150		8.0	250		500	1.8	TO-18 2N2907
2N2222JAN*	30	100 - 300 @ 150			0.40 @ 150		8.0	250		500	1.8	TO-18 2N2907
2N3300	30	100 - 300 @ 150			0.22 @ 150		8.0	250	150	800	3.0	TO-5 2N2905
2N3302	30	100 - 300 @ 150			0.22 @ 150		8.0	250	150	360	1.8	TO-18 2N2907
2N1711JAN*	30	100 - 300 @ 150			1.50 @ 150		25.0	70		800	3.0	TO-5 2N2905JAN
2N2218	30	40 - 120 @ 150			0.40 @ 150		8.0	250		800	3.0	TO-5 2N2904
2N2221	30	40 - 120 @ 150			0.40 @ 150		8.0	250		500	1.8	TO-18 2N2906
2N3299	30	40 - 120 @ 150			0.22 @ 150		8.0	250	150	800	3.0	TO-5 2N2904
2N3301	30	40 - 120 @ 150			0.22 @ 150		8.0	250	150	360	1.8	TO-18 2N2906
2N718AJAN*	30	40 - 120 @ 150			1.50 @ 150		25.0	60		500	1.8	TO-18 2N2907AJAN
2N1613JAN*	30	40 - 120 @ 150			1.50 @ 150		25.0	60		800	3.0	TO-5 2N2905AJAN
2N2405	30	30 - 120 @ 150			0.45 @ 150		11.0	200		800	2.4	TO-5 2N2904
2N1972	(30)	110 - 350 @ 50			2.00 @ 50		25.0	50		800	3.0	TO-5 2N2905
2N909	(30)	110 - 350 @ 50			2.00 @ 50		25.0	50		500	1.8	TO-18 2N2907
2N1711A	32	100 - 300 @ 150			1.00 @ 150		25.0	70		100	5.0	TO-5 2N2905
2N2297	35	40 - 120 @ 150			0.20 @ 150		12.0	60		800	5.0	TO-5 2N2904
2N3947	40	100 - 300 @ 10			0.20 @ 10		4.0	300	450	360	1.2	TO-18 2N3250
FT3904	40	100 - 300 @ 10			0.20 @ 10		4.0	300	225	310	1.2	TO-18 FT3906
2N3946	40	50 - 150 @ 10			0.20 @ 10		4.0	250	375	360	1.2	TO-18 FT3905
FT3903	40	50 - 150 @ 10			0.20 @ 10		4.0	250	225	310	1.2	TO-18 FT3905
2N2219A	40	100 - 300 @ 150			0.30 @ 150		8.0	300	285	800	3.0	TO-5 2N2905A
2N2222A	40	100 - 300 @ 150			0.30 @ 150		8.0	300	285	500	1.8	TO-18 2N2907A
2N2192	40	100 - 300 @ 150			0.35 @ 150		20.0	50		800	2.8	TO-5 2N2905
2N2192A	40	100 - 300 @ 150			0.25 @ 150		20.0	50		800	2.8	TO-5 2N2905
2N2192B	40	100 - 300 @ 150			0.18 @ 150		20.0	50		800	2.8	TO-5 2N2905
2N3109	40	100 - 300 @ 150			0.25 @ 150		25.0	70		800	5.0	TO-5 2N2905

* JAN TX also available
Preferred devices in bold type

TRANSISTORS—SMALL SIGNAL

NPN GENERAL PURPOSE AMPLIFIER AND SWITCHING TRANSISTORS (BY ASCENDING V_{CEO}) METAL PACKAGE

(ALSO SEE LOW LEVEL AND HIGH VOLTAGE SECTION)

Continued

TYPE	V _{CEO}	h _{FE}	V _{CE(sat)}	C _{ob}	f _T	t _{off}	P _D		Package	PNP Complement
	(V _{CER})	h _{FE}	VOLTS @ I _C	pF	MHz	ns	T _A	T _C		
	VOLTS MIN	MIN - MAX @ I _C mA	VOLTS @ I _C MAX mA	MAX	MIN	MAX	25°C mW	25°C W		
2N2218A	40	40 - 120 @ 150	0.30 @ 150	8.0	250	285	800	3.0	TO-5	2N2904
2N2221A	40	40 - 120 @ 150	0.30 @ 150	8.0	250	285	500	1.8	TO-18	2N2906
2N2868	40	40 - 120 @ 150	0.25 @ 150	20.0	50		800	2.8	TO-5	2N2905
2N3110	40	40 - 120 @ 150	0.25 @ 150	25.0	60		800	5.0	TO-5	2N2904
2N2194	40	20 - 60 @ 150	0.35 @ 150	20.0	50		800	2.8	TO-5	2N2904
2N2194A	40	20 - 60 @ 150	0.25 @ 150	20.0	50		800	2.8	TO-5	2N2904
2N2194B	40	20 - 60 @ 150	0.18 @ 150	20.0	50		800	2.8	TO-5	2N2904
2N697	(40)	40 - 120 @ 150	1.50 @ 150	35.0	50		600	2.0	TO-5	2N2904
2N697JAN	(40)	40 - 120 @ 150	1.50 @ 150	35.0	60		600	2.0	TO-5	2N2905AJAN
2N696	(40)	20 - 60 @ 150	1.50 @ 150	35.0	40		600	2.0	TO-5	2N2904
2N1988	45	35 - 120 @ 30	2.00 @ 30	20.0	40		600	2.0	TO-5	2N2904A
2N1989	45	20 - 60 @ 30	2.00 @ 30	20.0	40		600	2.0	TO-5	2N2904A
2N2270	45	50 - 200 @ 150	0.90 @ 150	15.0	100		1000	5.0	TO-5	2N2904A
2N3326	45	40 - 120 @ 150	0.40 @ 150	8.0	250	340		3.0	TO-5	2N2904A
2N915	50	50 - 200 @ 10	1.00 @ 10	3.5	250		360	1.2	TO-18	2N3250A
2N2219AJAN*	50	100 - 300 @ 150	0.30 @ 150	8.0	250	300	800	3.0	TO-5	2N2905AJAN
2N2222AJAN*	50	100 - 300 @ 150	0.30 @ 150	8.0	250	300	500	1.8	TO-18	2N2907AJAN
2N2193	50	40 - 120 @ 150	0.35 @ 150	20.0	50		800	2.8	TO-5	2N2904A
2N2193A	50	40 - 120 @ 150	0.25 @ 150	20.0	50		800	2.8	TO-5	2N2904A
2N2193B	50	40 - 120 @ 150	0.18 @ 150	20.0	50		800	2.8	TO-5	2N2904A
2N3945	50	40 - 250 @ 150	0.50 @ 150	12.0	60			5.0	TO-5	2N2904A
2N2049	(50)	100 - 300 @ 150	0.40 @ 10	25.0	50		800	3.0	TO-5	2N2905
2N2645	(50)	100 - 300 @ 150	0.40 @ 10	25.0	50		500	1.8	TO-18	2N2907
2N956	(50)	100 - 300 @ 150	1.50 @ 150	25.0	70		500	1.8	TO-18	2N2907
2N1711	(50)	100 - 300 @ 150	1.50 @ 150	25.0	70		800	3.0	TO-5	2N2905
2N3053	(50)	50 - 250 @ 150	1.40 @ 150	15.0	100			5.0	TO-5	2N2905
2N718A	(50)	40 - 120 @ 150	1.50 @ 150	25.0	60		500	1.8	TO-18	2N2907
2N1613	(50)	40 - 120 @ 150	1.50 @ 150	25.0	80		800	3.0	TO-5	2N2905A
2N3678	55	40 - 120 @ 150	0.40 @ 150	8.0	250		800	4.0	TO-5	2N2905A
2N910	60	75 @ 10	0.40 @ 10	15.0	60		500	1.8	TO-18	2N2907A
2N1973	60	75 @ 10	0.40 @ 10	15.0	60		800	3.0	TO-5	2N2905A
2N1983	60	75 @ 10	0.25 @ 5	15.0	60		800	3.0	TO-5	2N2905A
2N911	60	35 @ 10	0.40 @ 10	15.0	50		500	1.8	TO-18	2N2906A
2N1974	60	35 @ 10	0.40 @ 10	15.0	50		800	3.0	TO-5	2N2904A
2N1984	60	35 @ 10	0.25 @ 5	15.0	50		800	3.0	TO-5	2N2904A
2N912	60	15 @ 10	0.40 @ 10	15.0	40		500	1.8	TO-18	2N2906A
2N1975	60	15 @ 10	0.40 @ 10	15.0	40		800	3.0	TO-5	2N2904A
2N1985	60	15 @ 10	0.25 @ 5	15.0	40		800	3.0	TO-5	2N2904A
2N1990	60	20 @ 30	0.50 @ 2				600	2.0	TO-5	2N2904A
2N871	60	100 - 300 @ 150	5.00 @ 150	15.0	60		500	1.8	TO-18	2N2907A
2N1890	60	100 - 300 @ 150	5.00 @ 150	15.0	60		800	3.0	TO-5	2N2905A
2N4960	60	100 - 300 @ 150	0.18 @ 150	15.0	250	1000	800	3.5	TO-39	2N2905A
2N4962	60	100 - 300 @ 150	0.18 @ 150	15.0	250	1000	500	1.5	TO-18	2N2907A
2N3107	60	100 - 300 @ 150	0.25 @ 150	20.0	70		800	5.0	TO-5	2N4032
2N870	60	40 - 120 @ 150	5.00 @ 150	15.0	50		500	1.8	TO-18	2N2906A
2N1889	60	40 - 120 @ 150	5.00 @ 150	19.0	70		800	3.0	TO-5	2N2904A

* JAN TX also available

TRANSISTORS—SMALL SIGNAL

NPN GENERAL PURPOSE AMPLIFIER AND SWITCHING TRANSISTORS (BY ASCENDING V_{CEO}) METAL PACKAGE

Continued

(ALSO SEE LOW LEVEL AND HIGH VOLTAGE SECTION)

TYPE	V _{CEO} (V _{CER}) VOLTS	h _{FE} @ I _C mA	V _{CE(sat)} VOLTS @ I _C mA	C _{ob} pF	f _T MHz	t _{off} ns	P _D		Package	PNP Complement
	MIN	MIN - MAX	MAX	MAX	MIN	MAX	T _A 25°C mW	T _C 25°C W		
2N720	60	40 - 120 @ 150	5.00 @ 150	20.0	50		500	1.8	TO-18	2N2906A
2N3108	60	40 - 120 @ 150	0.25 @ 150	20.0	60		800	5.0	TO-5	2N4030
2N698	60	20 - 60 @ 150	5.00 @ 150	15.0	40		800	3.0	TO-5	2N2904A
2N719A	60	20 - 60 @ 150	5.00 @ 150	15.0	40		500	1.8	TO-18	2N2906A
2N719	60	20 - 60 @ 150	5.00 @ 150	20.0	60		500	1.8	TO-18	2N2906A
2N656	60	30 - 90 @ 200	5.00 @ 200				800	4.0	TO-5	2N2904A
2N497	60	12 - 36 @ 200	5.00 @ 200				800	4.0	TO-5	2N2904A
2N3666	80	100 - 300 @ 150	1.20 @ 150	12.0	60			5.0	TO-5	2N4033
2N3019	80	100 - 300 @ 150	0.20 @ 150	12.0	100		800	5.0	TO-5	2N4033
2N3700	80	100 - 300 @ 150	0.20 @ 150	12.0	100		500	1.8	TO-18	2N4029
2N4961	80	100 - 300 @ 150	0.18 @ 150	15.0	250	1000	800	3.5	TO-39	2N4033
2N4963	80	100 - 300 @ 150	0.18 @ 150	15.0	250	1000	500	1.5	TO-18	2N4029
2N3665	80	40 - 120 @ 150	1.20 @ 150	12.0	60			5.0	TO-5	2N4031
2N3020	80	40 - 120 @ 150	0.20 @ 150	12.0	80		800	5.0	TO-5	2N4031
2N3701	80	40 - 120 @ 150	0.20 @ 150	12.0	80		500	1.8	TO-18	2N4027
2N720A	80	40 - 120 @ 150	5.00 @ 150	15.0	50		500	1.8	TO-18	2N4027
2N1893	80	40 - 120 @ 150	5.00 @ 150	15.0	50		800	3.0	TO-5	2N4031
2N699B	80	40 - 120 @ 150	5.00 @ 150	15.0	60		870	5.0	TO-5	2N4031
2N720AJAN*	80	40 - 120 @ 150	1.20 @ 150	15.0	60		500	1.8	TO-18	2N4027
2N1893AJAN*	80	40 - 120 @ 150	5.00 @ 150	15.0	60		800	3.0	TO-5	2N4031
2N699	(80)	40 - 120 @ 150	5.00 @ 150	20.0	50		600	2.0	TO-5	2N4030
2N699A	(80)	40 - 120 @ 150	5.00 @ 150	20.0	50		800	5.0	TO-5	2N4030

* JAN TX also available
Preferred devices in bold type

TRANSISTORS—SMALL SIGNAL

NPN GENERAL PURPOSE AMPLIFIER AND SWITCHING TRANSISTORS (BY ASCENDING V_{CE0})

PLASTIC PACKAGE

(ALSO SEE LOW LEVEL AND HIGH VOLTAGE SECTION)

TYPE	V_{CE0}	h_{FE}		$V_{CE(sat)}$		C_{ob}	f_T	t_{off}	P_D		PNP Complement	
	(V_{CER})	(h_{fe})		VOLTS @ I_C		pF	MHz	ns	T_A	T_C		
	VOLTS	h_{FE}	@ I_C	MAX	mA	MAX	MIN	MAX	25°C	25°C		
	MIN	MIN-MAX	mA	MAX	mA	MAX	MIN	MAX	mW	W	Package	
2N5128	12	35-350	@ 50	0.25 @ 150	10.0	200			300	0.7	TO-105	2N5142
2N5129	12	35-350	@ 50	0.25 @ 150	10.0	200			200	0.5	TO-106	2N5143
2N5219	15	35-500	@ 2	0.40 @ 2	4.0	150			310		TO-92	2N3221
2N5131	15	30-500	@ 10	1.00 @ 10	6.0	100			200	0.5	TO-106	2N5139
2N5220	15	30-600	@ 50	0.50 @ 50	10.0	100			310		TO-92	2N5226
MPS2712	18	75-225	@ 2		4.0				625	1.0	TO-92	2N4126
MPS2711	18	30-90	@ 2		4.0				625	1.0	TO-92	2N4125
2N5223	20	50-800	@ 2	0.70 @ 2	4.0	150			310		TO-92	2N5227
SE2002	20	100-400	@ 10	0.70 @ 10	6.0	200			200	0.5	TO-106	2N4122
SE2001	20	40-160	@ 10	0.70 @ 10	6.0	200			200	0.5	TO-106	2N4121
2N5132	20	30-400	@ 10	2.00 @ 10	3.5	200			200	0.5	TO-106	2N4121
MPS3706	20	30-600	@ 50	1.00 @ 50	12.0	100			625	1.0	TO-92	MPS3702
2N5136	20	20-400	@ 150	0.25 @ 150	35.0	40			220	0.6	TO-105	2N5142
2N5137	20	20-400	@ 150	0.25 @ 150	35.0	40			220	0.6	TO-106	2N5143
MPS6561	20	50-200	@ 350	0.50 @ 150	30.0	60			625	1.0	TO-92	MPS6563
MPS6515	25	250-500	@ 2	0.50 @ 2	3.5				625	1.0	TO-92	MPS6519
MPS2925	25	(235-470)	@ 2		12.0				625	1.0	TO-92	2N4126
MPS3392	25	150-300	@ 2		3.5				625	1.0	TO-92	2N4126
MPS6514	25	150-300	@ 2	0.50 @ 2	3.5				625	1.0	TO-92	MPS6518
MPS2924	25	(150-300)	@ 2		12.0				625	1.0	TO-92	2N4126
MPS3395	25	150-500	@ 2		3.5				625	1.0	TO-92	2N4126
2N4124	25	120-360	@ 2	0.30 @ 2	4.0	300			310		TO-92	2N4126
MPS3393	25	90-180	@ 2		3.5				625	1.0	TO-92	2N4126
MPS2923	25	(90-180)	@ 2		12.0				625	1.0	TO-92	2N4126
MPS3721	25	60-660	@ 2		3.5				625	1.0	TO-92	2N4125
MPS3394	25	55-110	@ 2		3.5				625	1.0	TO-92	2N4125
MPS2926	25	(35-470)	@ 2		3.5				625	1.0	TO-92	2N4125
2N3692	25	100-400	@ 10	0.70 @ 10	6.0	200			200	0.5	TO-106	2N4122
MPS5172	25	100-500	@ 10	0.25 @ 10	12.0				625	1.0	TO-92	2N4126
EN916	25	50-200	@ 10	0.50 @ 10	6.0	300			200	0.5	TO-106	2N4121
2N5135	25	50-600	@ 10	1.00 @ 100	25.0	40			300	0.8	TO-105	2N5142
2N3691	25	40-160	@ 10	0.70 @ 10	6.0	200			200	0.5	TO-106	2N4121
2N5225	25	30-600	@ 50	0.80 @ 50	20.0	50			310		TO-92	2N5226
MPS6560	25	50-200	@ 500	0.50 @ 500	30.0	60			625	1.0	TO-92	MPS6562
MPS6513	30	90-180	@ 2	0.50 @ 2	3.5				625	1.0	TO-92	MPS6517
MPS6512	30	50-100	@ 2	0.50 @ 2	3.5				625	1.0	TO-92	MPS6516
2N4123	30	50-150	@ 2	0.30 @ 2	4.0	250			310		TO-92	2N4125
2N3566	30	50-160	@ 10	1.00 @ 100	25.0	40			300	0.8	TO-105	2N3638A
MPS3704	30	100-300	@ 50	0.60 @ 50	12.0	100			625	1.0	TO-92	2N4403
MPS3705	30	50-150	@ 50	0.80 @ 50	12.0	100			625	1.0	TO-92	2N4402
MPS6532	30	30	@ 100	0.50 @ 100	5.0				625	1.0	TO-92	MPS6535M
2N3643	30	100-300	@ 150	0.22 @ 150	8.0	250			350	0.7	TO-105	2N3638A
2N4437	30	100-300	@ 150	0.22 @ 150	8.0	250	150		200	0.5	TO-106	EN2907
EN2219	30	100-300	@ 150	0.40 @ 150	8.0	250			200	0.5	TO-105	EN2905
EN2222	30	100-300	@ 150	0.40 @ 150	8.0	250			200	0.5	TO-106	EN2907
2N4970	30	100-350	@ 150	0.40 @ 150	8.0	200	440		200	0.5	TO-106	EN2907

TRANSISTORS—SMALL SIGNAL

NPN GENERAL PURPOSE AMPLIFIER AND SWITCHING TRANSISTORS (BY ASCENDING V_{CE0}) PLASTIC PACKAGE

Continued

(ALSO SEE LOW LEVEL AND HIGH VOLTAGE SECTION)

TYPE	V_{CE0} (V_{CER})	h_{FE} (h_{fe})		$V_{CE(sat)}$	C_{ob}	f_T	t_{off}	P_D		PNP Complement	
	VOLTS MIN	h_{FE} MIN-MAX	@ I_C mA	VOLTS @ I_C MAX mA	pF MAX	MHz MIN	ns MAX	T_A 25°C mW	T_C 25°C W		Package
2N4969	30	40-120	@ 150	0.40 @ 150	8.0	200	380	200	0.5	TO-106	EN2907
2N3641	30	40-120	@ 150	0.22 @ 150	8.0	250		350	0.7	TO-105	2N3638
2N4436	80	40-120	@ 150	0.22 @ 150	8.0	250	150	200	0.5	TO-106	EN2907
EN697	30	40-120	@ 150	1.50 @ 150	35.0	50		300	0.8	TO-105	2N3638
MPSA10	40	40-400	@ 5		4.0	50		625	1.0	TO-92	2N3905
MPSA20	40	40-400	@ 5	0.25 @ 5	4.0	125		625	1.0	TO-92	2N3905
2N3904	40	100-300	@ 10	0.20 @ 10	4.0	300	225	310		TO-92	2N3906
EN3904	40	100-300	@ 10	0.30 @ 10	4.0	300	225	200	0.5	TO-106	EN3906
2N3903	40	50-150	@ 10	0.20 @ 10	4.0	250	225	310		TO-92	2N3905
EN3903	40	50-150	@ 10	0.20 @ 10	4.0	250	225	200	0.5	TO-106	EN3905
MPS6531	40	90-270	@ 100	0.30 @ 100	5.0			625	1.0	TO-92	MPS6534M
MPS6530	40	40-120	@ 100	0.50 @ 100	5.0			625	1.0	TO-92	MPS6535M
2N4401	40	100-300	@ 150	0.40 @ 150	6.5	250	225	310		TO-92	2N4403
2N3569	40	100-300	@ 150	0.25 @ 150	20.0	60		300	0.8	TO-105	2N4355
2N4946	40	100-300	@ 150	0.25 @ 150	25.0	60		220	0.6	TO-106	EN2907
EN1711	40	100-300	@ 150	1.50 @ 150	25.0	70		300	0.8	TO-105	EN2905
EN956	40	100-300	@ 150	1.50 @ 150	25.0	70		220	0.6	TO-106	EN2907
2N4400	40	50-150	@ 150	0.40 @ 150	6.5	200	255	310		TO-92	2N4402
2N3567	40	40-120	@ 150	0.25 @ 150	20.0	60		300	0.8	TO-105	2N5041
2N4944	40	40-120	@ 150	0.25 @ 150	25.0	60		220	0.6	TO-106	EN2907
EN718A	40	40-120	@ 150	1.50 @ 150	25.0	60		220	0.6	TO-106	EN2907
EN1613	40	40-120	@ 150	1.50 @ 150	25.0	60		300	0.8	TO-105	EN2905
2N3694	45	100-400	@ 10		3.5	200		200	0.5	TO-106	2N4122
MPS3694	45	100-400	@ 10		3.5	200		625	1.0	TO-92	2N3906
SE1002	45	100-400	@ 10	2.00 @ 10	3.5	200		200	0.5	TO-106	2N4122
MPS6566	45	100-400	@ 10	0.40 @ 10	3.5	200		625	1.0	TO-92	2N3906
MPS6565	45	40-150	@ 10	0.40 @ 10	3.5	200		625	1.0	TO-92	2N3905
2N3693	45	40-160	@ 10		3.5	200		200	0.5	TO-106	2N4121
MPS3693	45	40-160	@ 10		3.5	200		625	1.0	TO-92	2N3905
SE1001	45	40-160	@ 10	2.00 @ 10	3.5	200		200	0.5	TO-106	2N4121
2N3642	45	40-120	@ 150	0.22 @ 150	8.0	250		350	0.7	TO-105	2N3644
2N4409	50	60-400	@ 1	0.20 @ 1	12.0	60		310		TO-92	MPSA55
EN915	50	50-200	@ 10	1.00 @ 10	3.5	250		200	0.5	TO-106	2N4122
MPS6591	50	40	@ 10	0.60 @ 10	12.0			625	1.0	TO-92	MPSA55
MPSA05	60	50	@ 100	0.25 @ 100		50		625	1.0	TO-92	MPSA55
SE6020	60	100-300	@ 150	0.18 @ 150	15.0	250	1000	300	0.8	TO-105	2N3645
SE6022	60	100-300	@ 150	0.18 @ 150	15.0	250	1000	220	0.6	TO-106	
EN871	60	100-300	@ 150	5.00 @ 150	20.0	60		220	0.6	TO-106	
2N5856	60	50-300	@ 150	0.40 @ 150	12.0	200		750		TO-105	2N5855
EN870	60	40-120	@ 150	5.00 @ 150	20.0	50		220	0.6	TO-106	
2N3568	60	40-120	@ 150	0.25 @ 150	20.0	60		300	0.8	TO-105	2N4354
2N4945	60	40-120	@ 150	0.25 @ 150	20.0	60		220	0.6	TO-106	
2N4410	80	60-400	@ 10	0.20 @ 1	12.0	60		310		TO-92	MPSA56
MPSA06	80	50	@ 100	0.25 @ 100		50		625	1.0	TO-92	MPSA56
SE6021	80	100-300	@ 150	0.18 @ 150	15.0	250	1000	300	0.8	TO-105	2N4356
SE6023	80	100-300	@ 150	0.18 @ 150	15.0	250	1000	220	0.6	TO-106	

Preferred devices in bold type.

TRANSISTORS—SMALL SIGNAL

NPN GENERAL PURPOSE AMPLIFIER AND SWITCHING TRANSISTORS (BY ASCENDING V_{CEO})

PLASTIC PACKAGE

(ALSO SEE LOW LEVEL AND HIGH VOLTAGE SECTION)

Continued

TYPE	V _{CEO} (V _{CER})		h _{FE} (h _{fe})		V _{CE(sat)}		C _{ob} pF	f _T MHz	t _{off} ns	P _D		Package	PNP Complement
	VOLTS		h _{FE}	@ I _C	VOLTS @ I _C					T _A	T _C		
	MIN	MIN - MAX		mA	MAX	mA				25°C	25°C		
2N5858	80	50 - 300	@ 150	0.40	@ 150	12.0	200			750		TO-105	2N5857
MPS6590	80	40	@ 10	0.60	@ 10	12.0	60			625	1.0	TO-92	MPSA56

PNP GENERAL PURPOSE AMPLIFIER AND SWITCHING TRANSISTORS (BY ASCENDING V_{CEO})

METAL PACKAGE

(ALSO SEE LOW LEVEL AND HIGH VOLTAGE SECTION)

TYPE	V _{CEO} (V _{CER})		h _{FE}		V _{CE(sat)}		C _{ob} pF	f _T MHz	t _{off} ns	P _D		Package	NPN Complement
	VOLTS		h _{FE}	@ I _C	VOLTS @ I _C					T _A	T _C		
	MIN	MIN - MAX		mA	MAX	mA				25°C	25°C		
2N996	12	30	@ 60	0.30	@ 60	1.0	100			360	1.2	TO-18	2N916
2N995	15	35	@ 20	0.20	@ 20	10.0	100			360	1.2	TO-18	2N916
2N995A	15	35 - 140	@ 20	0.20	@ 20	6.0	100	90	360	1.2	TO-18	2N914	
2N869AJAN*	18	40 - 120	@ 10	0.15	@ 10	6.0	400	80	360	1.2	TO-18	2N914	
2N869	18	20	@ 10	1.00	@ 10	9.0	100			360	1.2	TO-18	2N916
2N869A	18	40 - 120	@ 30	0.20	@ 30	6.0	400	80	360	1.2	TO-18	2N914	
2N978	20	15 - 60	@ 150	1.50	@ 150	45.0	40			330	1.25	TO-18	2N2221
2N1991	20	15 - 60	@ 150	1.50	@ 150	45.0	40			600	2.0	TO-5	2N2218
2N2927	25	30 - 130	@ 50	0.25	@ 50	20.0	100	300	800	3.0	TO-5	2N2218	
2N2696	25	30 - 130	@ 50	0.25	@ 50	20.0	100	170	360	1.2	TO-18	2N2221	
2N3134	35	100 - 300	@ 150	0.60	@ 150	10.0	200	150	600	3.0	TO-5	2N2219	
2N3136	35	100 - 300	@ 150	0.60	@ 150	10.0	200	150	400	1.8	TO-18	2N2221	
2N2303	35	75 - 200	@ 150	1.50	@ 150	45.0	60			600	2.0	TO-5	2N2219
2N2801	35	75 - 225	@ 150	0.40	@ 150	25.0	120	270	800	3.0	TO-5	2N2219	
2N2838	35	75 - 225	@ 150	0.40	@ 150	25.0	120	270	500	1.8	TO-18	2N2222	
2N3133	35	40 - 120	@ 150	0.60	@ 150	10.0	200	150	600	3.0	TO-5	2N2218	
2N3135	35	40 - 120	@ 150	0.60	@ 150	10.0	200	150	400	1.8	TO-18	2N2221	
2N2800	35	30 - 90	@ 150	0.40	@ 150	25.0	120	270	800	3.0	TO-5	2N2218	
2N2837	35	30 - 90	@ 150	0.40	@ 150	25.0	120	250	500	1.8	TO-18	2N2221	
2N722	35	30 - 90	@ 150	1.50	@ 150	45.0	60			400	1.5	TO-18	2N718
2N1132	35	30 - 90	@ 150	1.50	@ 150	45.0	60			600	2.0	TO-39	2N1613
2N1132JAN	35	30 - 90	@ 150	1.50	@ 150	45.0	60			600	2.0	TO-39	2N1613JAN
2N721	35	25 - 45	@ 150	1.50	@ 150	45.0	50			400	1.5	TO-18	2N717
2N1131	35	20 - 45	@ 150	1.50	@ 150	45.0	50			600	2.0	TO-39	2N2194
2N4035	40	150 - 300	@ 10	0.14	@ 10	3.5	450	150	360	1.0	TO-18	2N3947	
FT3906	40	100 - 300	@ 10	0.25	@ 10	4.5	250	300	360	1.2	TO-18	FT3904	
2N3251	40	100 - 300	@ 10	0.25	@ 10	6.0	300	250	360	1.2	TO-18	2N3947	
2N4034	40	70 - 200	@ 10	0.14	@ 10	3.5	400	150	360	1.0	TO-18	2N3946	
FT3905	40	50 - 150	@ 10	0.25	@ 10	4.5	200	260	360	1.2	TO-18	FT3903	
2N3250	40	50 - 150	@ 10	0.25	@ 10	6.0	250	225	360	1.2	TO-18	2N3946	
2N2905	40	100 - 300	@ 150	0.40	@ 150	8.0	200	110	600	3.0	TO-5	2N2218A	
2N2905JAN*	40	100 - 300	@ 150	0.40	@ 150	8.0	200	110	600	3.0	TO-5	2N2218A	
2N2907	40	100 - 300	@ 150	0.40	@ 150	8.0	200	110	400	1.8	TO-18	2N2222A	
2N2907JAN*	40	100 - 300	@ 150	0.40	@ 150	8.0	200	110	400	1.8	TO-18	2N2222A	
2N4037	40	50 - 250	@ 150	1.40	@ 150		60		1000		TO-5	2N3110	
2N2904	40	40 - 120	@ 150	0.40	@ 150	8.0	200	110	600	3.0	TO-5	2N2218A	

* JAN TX also available
Preferred devices in bold type

TRANSISTORS—SMALL SIGNAL

PNP GENERAL PURPOSE AMPLIFIER AND SWITCHING TRANSISTORS (BY ASCENDING V_{CEO}) METAL PACKAGE

Continued

(ALSO SEE LOW LEVEL AND HIGH VOLTAGE SECTION)

TYPE	V _{CEO} (V _{CER})	h _{FE}	V _{CE(sat)}	C _{ob}	f _T	t _{off}	P _D		Package	NPN Complement
	VOLTS	h _{FE}	VOLTS @ I _C	pF	MHz	ns	T _A 25°C	T _C 25°C		
	MIN	MIN - MAX @ I _C mA	MAX @ I _C mA	MAX	MIN	MAX	mW	W		
2N2906	40	40 - 120 @ 150	0.40 @ 150	8.0	200	110	400	1.8	TO-18	2N2221A
2N5042	40	40 - 150 @ 150	0.25 @ 150	35.0	100		800	4.0	TO-39	2N3110
2N1131A	40	20 - 45 @ 150	1.50 @ 150	30.0	50	35	600	2.0	TO-5	2N1613
2N1132A	40	30 - 90 @ 150	1.50 @ 150	30.0	60	35	600	2.0	TO-5	2N1613
2N3502	45	115 - 300 @ 50	0.25 @ 50	8.0	200	100	700	3.0	TO-5	2N2219A
2N3504	45	115 - 300 @ 50	0.25 @ 50	8.0	200	100	400	1.3	TO-18	2N2222A
2N3120	45	30 - 130 @ 50	0.25 @ 50	10.0	130	100	800	3.0	TO-5	2N2218A
2N3121	45	30 - 130 @ 50	0.25 @ 50	10.0	130	100	360	1.2	TO-18	2N2218A
2N3671	50	75 - 225 @ 150	0.40 @ 150	9.0	200	100	600	3.0	TO-5	2N3107
2N3672	50	75 - 225 @ 150	0.40 @ 150	9.0	200	100	400	1.8	TO-18	2N871
2N3251A	60	100 - 300 @ 10	0.25 @ 10	6.0	300	250	360	1.2	TO-18	2N871
2N3251A JAN*	60	100 - 300 @ 110	0.25 @ 10	6.0	300	250	360	1.2	TO-18	
2N3250A	60	50 - 150 @ 10	0.25 @ 10	6.0	250	225	360	1.2	TO-18	2N870
2N3503	60	115 - 300 @ 50	0.25 @ 50	8.0	200	100	700	3.0	TO-5	2N3107
2N3505	60	115 - 300 @ 50	0.25 @ 50	8.0	200	100	400	1.3	TO-18	2N871
2N3072	60	30 - 130 @ 50	0.25 @ 50	10.0	130	100	800	3.0	TO-5	2N3108
2N3073	60	30 - 130 @ 50	0.25 @ 50	10.0	130	100	360	1.2	TO-18	2N870
2N4028	60	100 - 300 @ 100	0.15 @ 150	20.0	150		500	2.0	TO-18	2N871
2N4032	60	100 - 300 @ 100	0.15 @ 150	20.0	150		800	4.0	TO-5	2N3107
2N4026	60	40 - 120 @ 100	0.15 @ 150	20.0	100		500	2.0	TO-18	2N870
2N4030	60	40 - 120 @ 100	0.15 @ 150	20.0	100		800	4.0	TO-5	2N3108
2N2905A	60	100 - 300 @ 150	0.40 @ 150	8.0	200	110	600	3.0	TO-5	2N3107
2N2905AJAN*	60	100 - 300 @ 150	0.40 @ 150	8.0	200	200	600	3.0	TO-5	2N3107
2N2907A	60	100 - 300 @ 150	0.40 @ 150	8.0	200	110	400	1.8	TO-18	2N871
2N2907AJAN*	60	100 - 300 @ 150	0.40 @ 150	8.0	200	200	400	1.8	TO-18	2N871
2N2904A	60	40 - 120 @ 150	0.40 @ 150	8.0	200	110	600	3.0	TO-5	2N3108
2N2906A	60	40 - 120 @ 150	0.40 @ 150	8.0	200	110	400	1.8	TO-18	2N870
2N4036	65	20 - 200 @ 150	0.65 @ 150		60	700		7.0	TO-5	2N3108
2N4029	80	100 - 300 @ 100	0.15 @ 150	20.0	150		500	2.0	TO-18	2N3700
2N4033	80	100 - 300 @ 100	0.15 @ 150	20.0	150		800	4.0	TO-5	2N3020
2N4027	80	40 - 120 @ 100	0.15 @ 150	20.0	100		500	2.0	TO-18	2N3701
2N4031	80	40 - 120 @ 100	0.15 @ 150	20.0	100		800	4.0	TO-5	2N3019
2N3494	80	35 @ 100	0.30 @ 10	7.0	200		600	3.0	TO-5	2N3019
2N3496	80	35 @ 100	0.30 @ 10	7.0	200		400	1.8	TO-18	2N3701

* JAN TX also available
Preferred devices in bold type

TRANSISTORS—SMALL SIGNAL

PNP GENERAL PURPOSE AMPLIFIER AND SWITCHING TRANSISTORS (BY ASCENDING V_{CE0}) PLASTIC PACKAGE

(ALSO SEE LOW LEVEL AND HIGH VOLTAGE SECTION)

TYPE	V_{CE0}	h_{FE}		$V_{CE(sat)}$		C_{ob}	f_T	t_{off}	P_D		Package	NPN Complement		
	(V_{CER})	h_{FE}	@	I_C	VOLTS @				I_C	pF			MHz	ns
	VOLTS MIN	MIN - MAX		mA	MAX	mA	MAX	MIN	MAX	25°C	25°C			
2N5221	15	30 - 600	@	50	0.50	@	50	15.0	100		310	TO-92	2N5227	
2N5139	20	30	@	10	0.20	@	10	5.0	300		200	0.5	TO-106	2N5137
2N5142	20	30	@	50	0.50	@	50	30.0	100	200	300	0.7	TO-105	2N5136
2N5143	20	30	@	50	0.50	@	50	30.0	100	200	200	0.5	TO-106	2N5137
MPS6563	20	50 - 200	@	350	0.50	@	350	30.0	60		625	1.0	TO-92	MPS6561
MPS6519	25	250 - 500	@	2	0.50	@	2	4.0			625	1.0	TO-92	MPS6515
2N4126	25	120 - 360	@	2	0.40	@	2	4.5	250		310		TO-92	2N4124
2N3638A	25	100	@	50	0.25	@	50	10.0	150	170	300	0.7	TO-105	2N3643
MPS3638A	25	100	@	50	0.25	@	50	10.0	150	170	625	1.0	TO-92	2N4401
MPS3702	25	60 - 300	@	50	0.25	@	50	12.0	100		625	1.0	TO-92	MPS3706
2N3638	25	30	@	50	0.25	@	50	20.0	100	170	300	0.7	TO-105	2N3641
MPS3638	25	30	@	50	0.25	@	50	20.0	100	170	625	1.0	TO-92	2N3641
2N5226	25	30 - 600	@	50	0.80	@	50	20.0	50		310		TO-92	2N5225
2N5040	25	30	@	150	0.25	@	150	35.0	80		300	0.8	TO-105	2N3567
MPS6562	25	50 - 200	@	500	0.50	@	500	30.0	60		625	1.0	TO-92	MPS6560
2N4125	30	50 - 150	@	2	0.40	@	2	4.5	200		310		TO-92	2N4123
2N5227	30	50 - 700	@	2	0.40	@	2	5.0	100		310		TO-92	2N4123
2N4917	30	150 - 300	@	10	0.14	@	10	4.5	450	150	200	0.5	TO-106	EN3904
2N4916	30	70 - 200	@	10	0.14	@	10	4.5	400	150	200	0.5	TO-106	EN3903
MPS3703	30	30 - 150	@	50	0.25	@	50	12.0	100		625	1.0	TO-92	2N4123
MPS6535M	30	30	@	100	0.50	@	100	8.0			625	1.0	TO-92	MPS6533
EN722	35	30 - 90	@	150	1.50	@	150	45.0	60		200	0.5	TO-106	EN718
EN1132	35	30 - 90	@	150	1.50	@	150	45.0	60		200	0.5	TO-105	EN1613
MPS6518	40	150 - 300	@	2	0.50	@	2	4.0			625	1.0	TO-92	MPS6514
MPS6517	40	90 - 180	@	2	0.50	@	2	4.0			625	1.0	TO-92	MPS6513
MPS6516	40	50 - 100	@	2	0.50	@	2	4.0			625	1.0	TO-92	MPS6512
MPSA70	40	40 - 400	@	5	0.25	@	5	4.0	125		625	1.0	TO-92	MPSA20
2N4122	40	150 - 300	@	10	0.14	@	10	4.5	450	150	200	0.5	TO-106	EN3904
2N3906	40	100 - 300	@	10	0.25	@	10	4.5	250	300	310		TO-92	2N3904
EN3906	40	100 - 300	@	10	0.25	@	10	4.5	250	300	200	0.5	TO-106	EN3904
2N4121	40	70 - 200	@	10	0.14	@	10	4.5	400	150	200	0.5	TO-106	EN3903
2N3905	40	50 - 150	@	10	0.25	@	10	4.5	200	260	310		TO-92	2N3903
EN3905	40	50 - 150	@	10	0.25	@	10	4.5	200	260	200	0.5	TO-106	EN3903
EN3250	40	50 - 150	@	10	0.25	@	10	6.0	250	225	200	0.5	TO-106	EN3903
MPS6534M	40	90 - 270	@	100	0.30	@	100	8.0			625	1.0	TO-92	MPS6532
MPS6533M	40	40 - 120	@	100	0.50	@	100	8.0			625	1.0	TO-92	MPS6531
EN2905	40	100 - 300	@	150	0.40	@	150	8.0	150	110	300	0.7	TO-105	EN2219
EN2907	40	100 - 300	@	150	0.40	@	150	8.0	150	110	200	0.5	TO-106	EN2222
2N4403	40	100 - 300	@	150	0.40	@	150	8.5	200	255	310		TO-92	2N4401
2N4402	40	50 - 150	@	150	0.40	@	150	8.5	150	255	310		TO-92	2N4400
2N5041	40	40 - 150	@	150	0.25	@	150	35.0	100		300	0.8	TO-105	2N3567
2N3644	45	115 - 300	@	50	0.25	@	50	8.0	200	100	300	0.7	TO-105	2N3569
EN3502	45	100 - 300	@	150	0.40	@	150	8.0	150	100	300	0.7	TO-105	EN2219
EN3504	45	100 - 300	@	150	0.40	@	150	8.0	150	100	200	0.5	TO-106	EN2222
2N4355	60	100 - 400	@	10	0.15	@	150	30.0	100		350	0.8	TO-105	2N3568

Preferred devices in bold type

TRANSISTORS—SMALL SIGNAL

PNP GENERAL PURPOSE AMPLIFIER AND SWITCHING TRANSISTORS (BY ASCENDING V_{CEO}) PLASTIC PACKAGE

Continued

(ALSO SEE LOW LEVEL AND HIGH VOLTAGE SECTION)

TYPE	V _{CEO} (V _{CER}) VOLTS	h _{FE}		V _{CE(sat)}		t _{off}	P _D	t _{off}	P _D		Package	NPN Complement
	MIN	MIN - MAX	@ I _C mA	VOLTS @ I _C MAX	@ I _C mA	pF MAX	MHz MIN	ns MAX	T _A 25° C mW	T _C 25° C W		
2N4354	60	50 - 500	@ 10	0.15	@ 150	30.0	100		350	0.8	TO-105	SE6020
2N3645	60	115 - 300	@ 50	0.25	@ 50	8.0	200	100	300	0.7	TO-105	SE6020
MPSA55	60	50	@ 100	0.25	@ 100		50		625	1.0	TO-92	MPSA05
2N5855	60	50 - 300	@ 150	0.40	@ 150		15		750		TO-105	2N5856
2N4356	80	50 - 250	@ 10	0.15	@ 150	30.0	100		350	0.8	TO-105	SE6021
MPSA56	80	50	@ 100	0.25	@ 100		50		625	1.0	TO-92	MPSA06
2N5857	80	50 - 300	@ 150	0.40	@ 150		15		750		TO-105	2N5858

NPN LOW LEVEL, LOW NOISE AMPLIFIER TRANSISTORS (BY ASCENDING V_{CEO}) METAL PACKAGE

TYPE	V _{CEO} VOLTS	h _{FE}		h _{FE}		NF		NF		PACKAGE
	MIN	MIN - MAX	(h _{fe}) @ I _C mA	h _{FE} (h _{fe}) @ I _C mA	dB MAX	@ f kHz	dB MAX	@ f kHz		
FT107A	30	900	@ 0.01	1200 - 2200	@ 10.0	3.0	@ 1.0	8.0	@ 0.01	TO-18
FT107B	45	450	@ 0.01	600 - 1550	@ 10.0	4.0	@ 1.0		@ 0.01	TO-18
2N2586	45	120 - 360	@ 0.01	600	@ 1.0	3.0	@ 1.0	2.0	@ 10.0	TO-18
2N930 JAN*	45	100 - 300	@ 0.01	600	@ 10.0	5.0	@ 0.1	3.0	@ 1.0	TO-18
2N930	45	100 - 300	@ 0.01	600	@ 10.0			3.0	@ WIDEBAND	TO-18
2N929	45	40 - 120	@ 0.01	350	@ 10.0			4.0	@ WIDEBAND	TO-18
2N760	45	(76 - 333)	@ 1.00							TO-18
2N2511	50	120	@ 0.01	250 - 750	@ 10.0	4.0	@ 1.0			TO-18
2N3117	60	250 - 500	@ 0.01	400	@ 1.0	1.0	@ 1.0	1.0	@ 10.0	TO-18
FT107C	60	100	@ 0.01	150 - 950	@ 10.0	6.0	@ 1.0			TO-18
2N2484	60	100 - 500	@ 0.01	250	@ 1.0	2.0	@ 10.0	3.0	@ WIDEBAND	TO-18
2N2484JAN	60	100 - 500	@ 0.01	250	@ 1.0	2.0	@ 10.0	3.0	@ WIDEBAND	TO-18
2N2483	60	40 - 120	@ 0.01	175	@ 1.0	3.0	@ 10.0	4.0	@ WIDEBAND	TO-18
2N760A	60	(40)	@ 0.10	(76 - 333)	@ 1.0					TO-18
2N2510	65	75	@ 0.01	150 - 500	@ 10.0	4.0	@ 1.0			TO-18
2N2509	80	25	@ 0.01	40	@ 10.0	7.0	@ 1.0			TO-18

* JAN TX also available
Preferred devices in bold type

TRANSISTORS—SMALL SIGNAL

NPN LOW LEVEL, LOW NOISE AMPLIFIER TRANSISTORS (BY ASCENDING V_{CEO}) PLASTIC PACKAGE

TYPE	V _{CEO}	h _{FE}	h _{FE}	I _C	h _{FE}	h _{FE}	I _C	NF			NF			PACKAGE
	VOLTS							MIN - MAX	@	MIN - MAX	@	MAX	@	
	MIN			mA			mA							
2N5133	18	60 - 1000	@	1.00										TO-106
MPS6571	20	250 - 1000	@	0.10										TO-92
2N4968	25	40 - 200	@	0.01	45 - 265	@	0.1	6.0	@	1.0				TO-106
2N5089	25	400 - 1200	@	0.10	400	@	10.0				2.0	@	WIDEBAND	TO-92
MPS6521	25	150	@	0.10	300 - 600	@	2.0				3.0	@	WIDEBAND	TO-92
MPS6520	25	100	@	0.10	200 - 400	@	2.0				3.0	@	WIDEBAND	TO-92
2N3565	25	70	@	0.10	150 - 600	@	1.0							TO-106
SE4010	25	200 - 1000	@	1.00				3.0	@	1.0				TO-106
SE4002	25	200 - 1000	@	1.00										TO-106
SE4001	25	60 - 300	@	1.00										TO-106
2N5963	30	900	@	0.01	1200 - 2200	@	10.0	3.0	@	1.0	8.0	@	0.01	TO-92
2N5088	30	300 - 900	@	0.10	300	@	10.0				3.0	@	WIDEBAND	TO-92
MPS3707	30	100 - 400	@	0.10							5.0	@	WIDEBAND	TO-92
MPS3711	30	180 - 660	@	1.00										TO-92
MPS3710	30	90 - 330	@	1.00										TO-92
MPS3709	30	45 - 165	@	1.00										TO-92
MPS3708	30	45 - 660	@	1.00										TO-92
2N4967	40	100 - 600	@	0.01	115 - 725	@	0.1	6.0	@	1.0				TO-106
2N4966	40	40 - 200	@	0.01	45 - 265	@	0.1	6.0	@	1.0				TO-106
2N5962	45	45	@	0.01	600 - 1400	@	10.0	3.0	@	1.0	3.0	@	WIDEBAND	TO-92
EN930	45	100 - 300	@	0.01	600	@	10.0				3.0	@	WIDEBAND	TO-106
2N5210	50	200 - 600	@	0.10	250	@	10.0	3.0	@	1.0	2.0	@	WIDEBAND	TO-92
2N5209	50	100 - 300	@	0.10	150	@	10.0	4.0	@	1.0	3.0	@	WIDEBAND	TO-92
MPSA09	50	100 - 600	@	0.10										TO-92
2N5961	60	100	@	0.01	150 - 950	@	10.0	6.0	@	1.0				TO-92
EN2484	60	100 - 500	@	0.01	250	@	1.0	2.0	@	10.0	3.0	@	WIDEBAND	TO-106

PNP LOW LEVEL, LOW NOISE AMPLIFIER TRANSISTORS (BY ASCENDING V_{CEO}) METAL PACKAGE

TYPE	V _{CEO}	h _{FE}	h _{FE}	I _C	h _{FE}	h _{FE}	I _C	NF			NF			PACKAGE
	VOLTS							MIN - MAX	@	MIN - MAX	@	MAX	@	
	MIN			mA			mA							
2N4359	45	50 - 500	@	0.010	50 - 600	@	1.0	4.0	@	1.0	5.0	@	WIDEBAND	TO-18
2N3964	45	180	@	0.001	250 - 500	@	0.01	2.0	@	1.0	4.0	@	0.1	TO-18
2N3965	60	180	@	0.001	250 - 500	@	0.01	2.0	@	1.0	4.0	@	0.1	TO-18
2N3962	60	60	@	0.001	100 - 300	@	0.01	3.0	@	1.0	10.0	@	0.1	TO-18
2N3963	80	60	@	0.001	100 - 300	@	0.01	3.0	@	1.0	10.0	@	0.1	TO-18

Preferred devices in bold type

TRANSISTORS—SMALL SIGNAL
PNP LOW LEVEL, LOW NOISE AMPLIFIER TRANSISTORS (BY ASCENDING V_{CEO})
PLASTIC PACKAGE

TYPE	V _{CEO}	h _{FE}		h _{FE}		NF		NF		PACKAGE
	VOLTS	h _{FE}	@ I _C	h _{FE}	@ I _C	dB @ f	dB @ f	dB @ f	dB @ f	
	MIN	MIN - MAX	mA	MIN - MAX	mA	MAX	kHz	MAX	kHz	
MPS6523	25	150	@ 0.10	300-600	@ 2.00			3.0	@ WIDEBAND	TO-92
MPS6522	25	100	@ 0.10	200-400	@ 2.00			3.0	@ WIDEBAND	TO-92
2N5138	30	50-800	@ 0.10	50	@ 1.00					TO-106
2N4965	40	80-400	@ 0.01	145-475	@ 0.10	6.0	@ 1.0			TO-106
2N4964	40	30-120	@ 0.01	60-145	@ 0.10	6.0	@ 1.0			TO-106
2N4250	40	250-700	@ 0.10	250	@ 1.00	2.0	@ 1.0	2.0	@ WIDEBAND	TO-106
2N4248	40	50	@ 0.10	50	@ 1.00					TO-106
2N5087	50	250-800	@ 0.10	250	@ 10.00	2.0	@ 1.0	2.0	@ WIDEBAND	TO-92
2N5086	50	150-500	@ 0.10	150	@ 10.00	3.0	@ 1.0	3.0	@ WIDEBAND	TO-92
EN3962	60	60	@ 0.001	100-300	@ 0.01	3.0	@ 1.0	10.0	@ 0.1	TO-106
2N4250A	60	250-700	@ 0.10	250	@ 1.00	2.0	@ 1.0	2.0	@ WIDEBAND	TO-106
2N4249	60	100-300	@ 0.10	100	@ 1.00	3.0	@ 1.0	3.0	@ WIDEBAND	TO-106

NPN HIGH VOLTAGE AMPLIFIER TRANSISTORS (BY ASCENDING V_{CEO})
METAL PACKAGE

TYPE	V _{CEO}	h _{FE}	h _{FE}	f _T	C _{ob} (C _{cb})	P _D		PACKAGE	PNP	
	VOLTS					h _{FE}	I _C			MHz
	MIN	MIN-MAX	@	mA	MIN	MAX	mW	W	COMPLEMENT	
2N498	100	12 - 36	@	200	50	13.0	800	4.0	TO-5	2N3495
2N657	100	30 - 90	@	200	70		800	4.0	TO-5	2N3495
2N657 JAN	100	30 - 90	@	200	4		800	4.0	TO-5	2N3495
2N2443	100	50 - 150	@	50	50	15.0	800	4.0	TO-5	2N3495
2N2008	110	40 - 120	@	50	40	15.0	800	3.0	TO-5	2N3495
SE7002	120	30	@	30	40	3.5	800	5.0	TO-39	2N3495
2N3526	120	30	@	30	40	12.0	800	5.0	TO-5	2N3495
SE7010	150	30	@	25	40	3.5	800	3.0	TO-39	2N3637
2N3923	150	30 - 120	@	25	40	3.5	800	3.0	TO-5	2N3637
SE7001	150	30	@	30	40	9.0	800	5.0	TO-39	2N3637
2N3114	150	30 - 120	@	30	40	9.0	800	5.0	TO-5	2N3637
2N4926	200	20 - 200	@	30	30	(6.0)	1000	7.0	TO-39	2N5415
SE7055	220	40 - 150	@	10	40	(3.5)	1000	7.0	TO-39	2N5415
2N4927	250	20 - 200	@	30	30	(6.0)	1000	7.0	TO-39	2N5416
2N5059	250	30 - 150	@	30	30	10.0	1000	5.0	TO-5	2N3743
2N5058	300	35 - 150	@	30	30	10.0	1000	5.0	TO-5	2N3743
SE7056	300	40 - 100	@	10	40	(3.0)	1000	7.0	TO-39	2N5416
SE7066	300	40 - 100	@	10	40	(3.0)	1750		TO-39	
2N3742	300	20 - 200	@	30	30	6.0	1000	5.0	TO-5	2N3743
SE7057	450	30 - 70	@	10	40	(2.5)	1000	7.0	TO-39	2N3495

Preferred devices in bold type

TRANSISTORS—SMALL SIGNAL

NPN HIGH VOLTAGE AMPLIFIER TRANSISTORS (BY ASCENDING V_{CE0}) PLASTIC PACKAGE

TYPE	V_{CE0}	h_{FE}	h_{FE} @	I_C mA	f_T MHz	C_{ob} pF	P_D		PACKAGE	PNP COMPLEMENT
	VOLTS MIN						MIN - MAX	$T_A=25^\circ C$ mW		
2N5830	120	80 - 500	@	25	100	40.0	310		TO-106	
2N5550	140	60 - 250	@	10	100	6.0	310		TO-92	2N5400
2N5964	150	50 - 250	@	10	100	4.0	700	2.0	TO-105	2N4888
MPS5551M	160	80 - 250	@	10	100	6.0	625		TO-92	2N5401
2N5831	160	80 - 250	@	10	100	4.0	310		TO-106	
2N5832	160	175 - 500	@	10	100	4.0	310		TO-106	
2N5965	180	50 - 250	@	10	100	4.0	700	2.0	TO-105	2N4888
2N5833	200	50 - 250	@	10	100	4.0	310		TO-106	

PNP HIGH VOLTAGE AMPLIFIER TRANSISTORS (BY ASCENDING V_{CE0}) METAL PACKAGE

TYPE	V_{CE0}	h_{FE}	h_{FE} @	I_C mA	f_T MHz	C_{ob} pF	P_D		PACKAGE	NPN COMPLEMENT
	VOLTS MIN						MIN - MAX	$T_A=25^\circ C$ mW		
2N3497	120	40	@	10	150	6.0	400	1.8	TO-18	
2N3495	120	40	@	10	150	6.0	600	3.0	TO-5	2N3923
2N3634	140	50 - 150	@	50	150	10.0	1000	5.0	TO-5	2N3923
2N3635	140	100 - 300	@	50	200	10.0	1000	5.0	TO-5	2N3923
2N3636	175	50 - 150	@	50	150	10.0	1000	5.0	TO-5	SE7055
2N3637	175	100 - 300	@	50	200	10.0	1000	5.0	TO-5	SE7055
2N3930	180	80 - 300	@	10	40	7.0	400	1.4	TO-18	
2N3931	180	80 - 300	@	10	40	7.0	700	2.5	TO-39	SE7055
2N5415	200	30 - 150	@	50	15	15.0	1000(50°C)	10.0	TO-5	SE7055
2N4357	240	80 - 300	@	10	40	7.0	400	1.4	TO-18	SE7055
2N4358	240	80 - 300	@	10	40	7.0	700	2.5	TO-39	SE7055
2N5416	300	30 - 120	@	50	15	15.0	1000(50°C)	10.0	TO-5	SE7056
2N3743	300	25 - 250	@	30	30	15.0	1000	5.0	TO-5	SE7056

PNP HIGH VOLTAGE AMPLIFIER TRANSISTORS (BY ASCENDING V_{CE0}) PLASTIC PACKAGE

TYPE	V_{CE0}	h_{FE}	h_{FE} @	I_C mA	f_T MHz	C_{ob} pF	P_D		PACKAGE	NPN COMPLEMENT
	VOLTS MIN						MIN - MAX	$T_A=25^\circ C$ mW		
MPSL51	100	40 - 250	@	50	60	8.0	625	1.0	TO-92	MPSL01
2N5400	120	40 - 180	@	10	100	6.0	310		TO-92	2N5550
2N5401	150	60 - 240	@	10	100	6.0	310		TO-92	MPS5551M
2N4888	150	40 - 400	@	10	30	4.0	300	0.8	TO-105	
2N4889	150	80 - 300	@	10	40	4.0	300	0.8	TO-105	

Preferred devices in bold type

TRANSISTORS—SMALL SIGNAL
NPN RF—IF AMPLIFIER AND OSCILLATOR TRANSISTORS (BY ASCENDING FREQUENCY)
METAL PACKAGE

TYPE	P.G. (OSC. Po)		V _{CEO}	f _T	C _{ob}	NF		P _D T _A 25°C	PACKAGE
	dB @ f		VOLTS	MHz	pF	dB @ f		mW	
	MIN	MHz	MIN	MIN	MAX	MAX	MHz		
SE8010	10.8 @ 27		60	300	9.0			800	TO-39
SE5023	22.5 @ 45		20	300	0.5	6.0 @ 45		175	TO-72
SE5024	22.5 @ 45		20	300	0.5	6.0 @ 45		175	TO-72
SE5055	27.0 @ 45		20	300	0.22	5.0 @ 45		175	TO-72
2N707	6.0 @ 100		25		5.0			300	TO-18
SE5050	20.0 @ 100		20	300	0.5	4.0 @ 100		175	TO-72
SE5051	20.0 @ 100		20	300	0.5			175	TO-72
2N917	9.0 @ 200		15	500	1.7	6.0 @ 60		200	TO-72
2N918	15.0 @ 200		15	600	1.7	6.0 @ 60		200	TO-72
SE5052	16.0 @ 200		20	375		4.0 @ 200		175	TO-72
SE5022	18.0 @ 200		20	300	0.5			175	TO-72
SE5020	20.0 @ 200		20	375	0.5	3.3 @ 200		175	TO-72
SE5021	20.0 @ 200		20	375	0.5	4.0 @ 200		175	TO-72
2N3137	6.0 @ 250		20	500	3.5			600	TO-5
2N918 JAN*	30.0 @ 500		15	600	1.7	6.0 @ 60		200	TO-72
2N917	(10.0)@500		15	500	1.7	6.0 @ 60		200	TO-72
2N918	(30.0)@500		15	600	1.7	6.0 @ 60		200	TO-72

* JAN TX also available
Preferred devices in bold type.

TRANSISTORS—SMALL SIGNAL

NPN RF—IF AMPLIFIER AND OSCILLATOR TRANSISTORS (BY ASCENDING FREQUENCY) PLASTIC PACKAGE

TYPE	P.G. (OSC. Po)		V _{CEO} VOLTS MIN	f _T MHz MIN	C _{ob} (C _{cb}) pF		NF		P _D T _A 25°C mW	PACKAGE
	MIN	f MHz			MAX	MAX	f MHz			
2N5127			12	150	(3.5)				200	T0-106
PE3100			30	400	(0.85)				300 (65°C)	T0-92
SE1010			15	200	3.5		5.5 @ 1		200	T0-106
2N3564	10.0 @	30	15	400	3.5				200	T0-106
PE5025	25.0 @	45	30	300	(1.0)				300 (65°C)	T0-92
PE5013	25.0 @	45	20	300	(0.4)		4.0 @ 45		200 (65°C)	T0-92
PE5029	28.0 @	45	30	500	(0.4)		6.0 @ 45		300 (65°C)	T0-92
PE5030B	28.0 @	45	40	600	(0.4)				300 (65°C)	T0-92
2N3688	29.0 @	45	40	400	1.6				200	T0-106
2N3689	29.0 @	45	40	400	1.6				200	T0-106
MPS6511	30.0 @	45	20		2.5				625	T0-92
PE5015	20.0 @	100	20	300	(0.5)		4.0 @ 100		200 (65°C)	T0-92
SE5006	20.0 @	100	40	400	1.6				200	T0-106
2N5126			20	300	(1.6)				200	T0-106
EN918	14.0 @	200	15	600	1.7		6.0 @ 60		200	T0-106
2N3563	14.0 @	200	12	600	1.7				200	T0-106
2N3690	15.0 @	200	40	400	1.6		5.5 @ 200		200	T0-106
MPS918	15.0 @	200	15	600	1.7		6.0 @ 60		625	T0-92
2N5130	17.0 @	200	12	450	(1.7)				200	T0-106
PE5031	19.0 @	200	30	500	0.4		4.5 @ 200		300 (65°C)	T0-92
PE5010	20.0 @	200	30	375	(0.5)		3.3 @ 200		200 (65°C)	T0-92
SE3001	12.0 @	500	12	600	1.7				200	T0-106
SE3002	12.0 @	500	12	600	1.7				200	T0-106
2N5770	15.0 @	500	15	900	(1.7)		6.0 @ 60		625	T0-92
EN918	(30.0) @	500	15	600	1.7		6.0 @ 60		200	T0-106
2N5770	(30.0) @	500	15	900	1.7		6.0 @ 60		625	T0-92
MPS3563	(30.0) @	500	12	600	1.7		6.0 @ 60		625	T0-92
MPS918	(30.0) @	500	15	600	1.7		6.0 @ 60		625	T0-92
SE3001			12	600	1.7				200	T0-106
SE3002	(3.0) @	930	12	600	1.7				200	T0-106

Preferred devices in bold type

TRANSISTORS—POWER

NPN
TO—5 PACKAGE

TYPE	V_{CEO}	I_C	h_{FE}	h_{FE}	I_C	VOLTS	$V_{CE(sat)}$		P_D	f_T	PNP
	VOLTS	AMPS					MIN-MAX	@			
2N4237	40	1.0	30-150	@	0.25	0.6	@	1.00	6	2	2N4234
2N4238	60	1.0	30-150	@	0.25	0.6	@	1.00	6	2	2N4235
2N4895	60	5.0	40-120	@	2.00	1.0	@	5.00	7	50	
2N4896	60	5.0	100-300	@	2.00	1.0	@	5.00	7	80	
2N4239	80	1.0	30-150	@	0.25	0.6	@	1.00	6	2	2N4236
2N4897	80	5.0	40-120	@	2.00	1.0	@	5.00	7	50	
2N3440	250	0.1	40-160	@	0.02	0.5	@	0.05	10	15	
2N3439	350	0.1	40-160	@	0.02	0.5	@	0.05	10	15	

PNP
TO—5 PACKAGE

TYPE	V_{CEO}	I_C	h_{FE}	h_{FE}	I_C	VOLTS	$V_{CE(sat)}$		P_D	f_T	PNP
	VOLTS	AMPS					MIN - MAX	@			
2N4234	40	1.0	30 - 150	@	0.25	0.6	@	1.0	6	3	2N4237
2N4235	60	1.0	30 - 150	@	0.25	0.6	@	1.0	6	3	2N4238
2N4236	80	1.0	30 - 150	@	0.25	0.5	@	1.0	6	3	2N4239

NPN
TO—66 PACKAGE

TYPE	V_{CEO}	I_C	h_{FE}	h_{FE}	I_C	VOLTS	$V_{CE(sat)}$		P_D	f_T	PNP
	VOLTS	AMPS					MIN-MAX	@			
2N4910	40	1.0	20-100	@	0.5	0.6	@	1.0	25	3	2N4898
2N4231	40	4.0	25-100	@	1.5	0.7	@	1.5	35	4	
2N3054	55	4.0	25-100	@	0.5	1.0	@	0.5	25	1	
2N4911	60	1.0	20-100	@	0.5	0.5	@	1.0	25	3	2N4899
2N3766	60	3.0	40-160	@	0.5	1.0	@	0.5	20	10	
2N4232	60	4.0	25-100	@	1.5	0.7	@	1.5	35	4	
2N4912	80	1.0	20-100	@	0.5	0.6	@	1.0	25	3	2N4900
2N3767	80	3.0	40-100	@	0.5	1.0	@	0.5	20	10	
2N4233	80	4.0	25-100	@	1.5	0.7	@	1.5	35	4	

Preferred devices in bold type

TRANSISTORS—POWER

PNP

TO—66 PACKAGE

TYPE	V_{CEO}	I_C	h_{FE}	h_{FE}	I_C	VOLTS	$V_{CE(sat)}$		P_D	f_T	NPN
	VOLTS	AMPS					@	AMP			
2N4898	40	1	20 - 100	@	.50	0.6	@	1.0	25	3	2N4910
2N4899	50	1	20 - 100	@	.50	0.6	@	1.0	25	3	2N4911
2N3740	60	1	30 - 100	@	.25	0.6	@	1.0	25	4	
2N4900	80	1	20 - 100	@	.50	0.6	@	1.0	25	3	2N4912
2N3741	80	1	30 - 100	@	.25	0.5	@	1.0	25	4	

NPN

TO—220 (PLASTIC TO—66) PACKAGE

TYPE	V_{CEO}	I_C	h_{FE}	h_{FE}	I_C	VOLTS	$V_{CE(sat)}$		P_D	f_T	PNP
	VOLTS	AMPS					@	AMP			
2N6121	45	4	25 - 100	@	1.5	0.6	@	1.5	40	2.5	2N6124
2N6122	60	4	25 - 100	@	1.5	0.6	@	1.5	40	2.5	2N6125
2N6123	80	4	20 - 80	@	1.5	0.6	@	1.5	40	2.5	2N6126

PNP

TO—220 (PLASTIC TO—66) PACKAGE

TYPE	V_{CEO}	I_C	h_{FE}	h_{FE}	I_C	VOLTS	$V_{CE(sat)}$		P_D	f_T	NPN
	VOLTS	AMPS					@	AMP			
2N6124	45	4	25 - 100	@	1.5	0.6	@	1.5	40	2.5	2N6121
2N6125	60	4	25 - 100	@	1.5	0.6	@	1.5	40	2.5	2N6122
2N6126	80	4	20 - 80	@	1.5	0.6	@	1.5	40	2.5	2N6123

Preferred devices in bold type

TRANSISTORS—POWER

NPN
TO—3 PACKAGE

TYPE	V_{CE0}	I_C	h_{FE}	h_{FE}	I_C	$V_{CE(sat)}$	$V_{CE(sat)}$	I_C	P_D	f_T	PNP
	VOLTS	AMPS									
	MIN	MAX				MAX			W	MIN	
2N5067	40	5	20 - 80	@	1.0	1.5	@	5	87.5	4.0	2N4901
2N4913	40	5	25 - 100	@	2.5	1.5	@	5	87.5	4.0	2N4904
2N5301	40	30	15 - 60	@	15	2.0	@	20	200	2.0	2N4398
2N5068	60	5	20 - 80	@	1.0	1.5	@	5	87.5	4.0	2N4902
2N4914	60	5	25 - 100	@	2.5	1.5	@	5	87.5	4.0	2N4905
2N3713	60	10	25 - 90	@	1.0	1.0	@	5	150	2.5	2N3789
2N3715	60	10	50 - 150	@	1.0	0.8	@	5	150	2.5	2N3791
2N3055	60	15	20 - 70	@	4.0	1.1	@	4	117	0.8	
2N5302	60	30	15 - 60	@	15	2.0	@	20	200	2.0	2N4399
2N5069	80	5	20 - 80	@	1.0	1.5	@	5	87.5	4.0	2N4903
2N4915	80	5	25 - 100	@	2.5	1.5	@	5	87.5	4.0	2N4906
2N3714	80	10	25 - 90	@	1.0	1.0	@	5	150	2.5	2N3790
2N3716	80	10	50 - 150	@	1.0	0.8	@	5	150	2.5	2N3792
2N5303	80	20	15 - 60	@	10	2.0	@	20	200	2.0	

PNP
TO—3 PACKAGE

TYPE	V_{CE0}	I_C	h_{FE}	h_{FE}	I_C	$V_{CE(sat)}$	$V_{CE(sat)}$	I_C	P_D	f_T	PNP
	VOLTS	AMPS									
	MIN	MAX				MAX			W	MIN	
2N4901	40	5	20 - 80	@	1.0	1.5	@	5	87.5	4	2N5067
2N4904	40	5	25 - 100	@	2.5	1.5	@	5	87.5	4	2N4913
2N4907	40	10	20 - 80	@	4.0	2.0	@	10	150	4	
2N4398	40	30	15 - 60	@	15	2.0	@	20	200	4	2N5301
2N4902	60	5	20 - 80	@	1.0	1.5	@	5	87.5	4	2N5068
2N4905	60	5	25 - 100	@	2.5	1.5	@	5	87.5	4	2N4914
2N3789	60	10	15	@	3.0	1.0	@	4	150	4	2N3713
2N4908	60	10	20 - 80	@	4.0	2.0	@	10	150	4	
2N3791	60	10	50 - 150	@	1.0	1.0	@	5	150	4	2N3715
2N4399	60	30	15 - 60	@	15	2.0	@	20	200	4	2N5302
2N4903	80	5	20 - 80	@	1.0	1.5	@	3	87.5	4	2N5069
2N4906	80	5	25 - 100	@	2.5	1.5	@	5	87.5	4	2N4915
2N3790	80	10	25 - 90	@	1.0	1.0	@	5	150	4	2N3714
2N4909	80	10	20 - 80	@	4.0	2.0	@	10	150	4	
2N3792	80	10	30	@	3.0	1.0	@	5	150	4	2N3716

Preferred devices in bold type

TRANSISTORS—FIELD EFFECT

N—CHANNEL RF AMPLIFIER JUNCTION FIELD EFFECT TRANSISTORS (BY ASCENDING V_{GSS}) PLASTIC PACKAGE

TYPE	V_{GSS}	I_{GSS}	I_{DSS}	$V_{GS(off)}$	C_{iss}	Y_{fs}	N.F.			N.F.			PACKAGE
	VOLTS	nA	mA	VOLTS	pF	μmho	dB	@	f	dB	@	f	
	MIN	MAX	MIN-MAX	MAX	MAX	MIN	MAX		kHz	MAX		MHz	
FE5245	30	1	5.0 - 15	6.0	4.5	4500				4	@	400	T0-106
FE5246	30	1	1.5 - 7	4.0	4.5	3000							T0-106
FE5247	30	1	8.0 - 24	8.0	4.5	4500							T0-106
2N5484	25	1	1.0 - 5	3.0	5.0	3000	2.5	@	1	3	@	100	T0-92
FE5484	25	1	1.0 - 5	3.0	5.0	3000	2.5	@	1	3	@	100	T0-106
2N5485	25	1	4.0 - 10	4.0	5.0	3500	2.5	@	1	4	@	400	T0-92
FE5485	25	1	4.0 - 10	4.0	5.0	3500	2.5	@	1	4	@	400	T0-106
2N5486	25	1	8.0 - 20	6.0	5.0	4000	2.5	@	1	4	@	400	T0-92
FE5486	25	10	8.0 - 20	7.5	5.0	4000	2.5	@	1	4	@	400	T0-106

P—CHANNEL GENERAL PURPOSE AMPLIFIER JUNCTION FIELD EFFECT TRANSISTORS (NUMERIC LISTING) PLASTIC PACKAGE

TYPE	V_{GSS}	I_{GSS}	I_{DSS}	$V_{GS(off)}$	C_{iss}	Y_{fs}	N.F.			PACKAGE	
	VOLTS	nA	mA	VOLTS	pF	μmho	dB	@	f		
	MIN	MAX	MIN-MAX	MAX	MAX	MIN	MAX		kHz		
FT3820	20	20	0.3 - 15	8.0	800	32					T0-106
2N4342	25	10	4.0 - 12	5.5	2000	20	1.5		0.1		T0-106
2N4343	25	1	10 - 30	10	4000	20	1.5		0.1		T0-106
2N4360	20	10	3.0 - 30	10	2000	20	1.5		0.1		T0-106
2N5033	20	10	0.3 - 3.5	2.5	1000	25	2.0		1.0		T0-106

N—CHANNEL RF DUAL GATE MOS FIELD EFFECT TRANSISTOR METAL PACKAGE

TYPE	V_{GSS}	I_{GSS}	I_{DSX}	$V_{GS(off)}$	Y_{fs}	C_{iss}	Gps		N.F.		PACKAGE
	VOLTS	nA	mA	VOLTS	μmho	pF	dB	@	f	dB	
	MIN	MAX	MIN-MAX	MAX	TYP	MAX	MIN		MHz	MAX	
FT0601	6	20	5.0 - 30	4	13000	10	16	@	200	4	T0-72

Preferred devices in bold type

TRANSISTORS—MULTIPLE TRANSISTORS
NPN MATCHED DUAL (DIFFERENTIAL) AMPLIFIER TRANSISTORS (NUMERIC LISTING)
METAL PACKAGE

TYPE	EQUIV. SINGLE DEVICE	V _{CEO} VOLTS MIN	h _{FE} MIN-MAX	h _{FE} @	I _C mA	MATCHING		TRACKING μV/°C MAX	P _D (Total) T _A = 25°C mW	PACKAGE
						h _{FE} %	V _{BE} mV			
MD918A	2N918	15	50	@	1.0	10	5.0	10	400	TO-77
MD918B	2N918	15	50	@	1.0	20	10	20	400	TO-77
2N2060	2N1893	60	30- 90	@	0.1	10	5.0	10	600	TO-77
2N2060A	2N1893	60	30- 90	@	0.1	10	3.0	10	600	TO-77
2N2060B	2N1893	60	30- 90	@	0.1	10	1.5	10	600	TO-77
2N2223	2N1711	60	40-200	@	1.0	20	15	25	600	TO-77
2N2223A	2N1711	60	40-200	@	1.0	10	5.0	25	600	TO-77
2N2639	2N930	45	50-300	@	0.01	10	5.0	10	600	TO-77
2N2640	2N930	45	50-300	@	0.01	20	10	20	600	TO-77
2N2642	2N930	45	100-300	@	0.01	10	5.0	10	600	TO-77
2N2643	2N930	45	100-300	@	0.01	20	10	20	600	TO-77
2N2910	2N930	25	70	@	0.1	20	10	20	600	TO-77
2N2915	2N2484	45	60-240	@	0.01	10	3.0	10	500	TO-77
2N2915A	2N2484	45	60-240	@	0.01	15	2.0	5	500	TO-77
2N2916	2N3117	45	150-600	@	0.01	10	5.0	10	500	TO-77
2N2916A	2N3117	45	150-600	@	0.01	15	2.0	5	500	TO-77
2N2917	2N2484	45	60-240	@	0.01	20	10	20	500	TO-77
2N2918	2N3117	45	150-600	@	0.01	20	5.0	20	500	TO-77
2N2919	2N2484	60	60-240	@	0.01	10	3.0	10	500	TO-77
2N2919A	2N2484	60	60-240	@	0.01	10	1.5	5	500	TO-77
2N2920	2N3117	60	150-600	@	0.01	10	3.0	10	500	TO-77
2N2920JAN*	2N3117	60	150-600	@	0.01	10	1.5	5	400	TO-77
2N2920A	2N3117	60	150-600	@	0.01	10	1.5	5	500	TO-77
FT2974	2N2484	45	60-240	@	0.01	10	2.0	5	300	TO-71
2N2974	2N2484	45	60-240	@	0.01	20	3.0	10	300	TO-71
FT2975	2N3117	45	150-600	@	0.01	10	2.0	5	300	TO-71
2N2975	2N3117	45	150-600	@	0.01	20	3.0	10	300	TO-71
2N2976	2N2484	45	60-240	@	0.01	10	5.0	20	300	TO-71
2N2977	2N3117	45	150-600	@	0.01	10	5.0	20	300	TO-71
FT2978	2N2484	60	60-240	@	0.01	10	2.0	5	300	TO-71
2N2978	2N2484	60	60-240	@	0.01	20	3.0	10	300	TO-71
FT2979	2N3117	60	150-600	@	0.01	10	2.0	5	300	TO-71
2N2979	2N3117	60	150-600	@	0.01	20	3.0	10	300	TO-71
2N2980	2N1893	60	50-150	@	0.01	20	5.0	10	300	TO-71
2N2981	2N1711	60	40-200	@	1.0	10	15	25	300	TO-71
2N2982	2N1711	60	40-200	@	1.0	20	15	15	300	TO-71
2N3423	2N918	15	20-200	@	3.0	20	10	40	550	TO-78
2N3424	2N918	15	20-200	@	3.0	10	5.0	20	450	TO-78
2N3728	2N3300	30	45-180	@	1.0	20	5.0	20	550	TO-78
2N3729	2N3300	30	45-180	@	1.0	10	3.0	10	550	TO-78
2N4956	2N2484	30	60-600	@	0.01	20	10	20	600	TO-77

* JAN TX also available
Preferred devices in bold type

TRANSISTORS—MULTIPLE TRANSISTORS

PNP MATCHED DUAL (DIFFERENTIAL) AMPLIFIER TRANSISTORS (NUMERIC LISTING) METAL PACKAGE

TYPE	EQUIV. SINGLE DEVICE	V _{CEO} VOLTS MIN	h _{FE} MIN-MAX	h _{FE} @	I _C mA	MATCHING h _{FE} %	V _{BE} mV	TRACKING μV/°C MAX	P _D (Total) T _A =25°C mW	PACKAGE
2N3726	2N2907	45	135-350	@	1.0	10	5.0	20	500	TO-78
2N3727	2N2907	45	135-350	@	1.0	10	2.5	10	500	TO-78
2N3802	2N3965	60	150-450	@	0.1	20	8.0	20	360	TO-71
2N3803	2N3965	60	300-900	@	0.1	10	8.0	20	360	TO-71
2N3804	2N3965	60	150-450	@	0.1	10	5.0	10	360	TO-71
2N3804A	2N3965	60	150-450	@	0.1	10	5.0	5	360	TO-71
2N3805	2N3965	60	300-900	@	0.1	10	5.0	10	360	TO-71
2N3805A	2N3965	60	300-900	@	0.1	10	5.0	5	360	TO-71
2N3808	2N3965	60	150-450	@	0.1	20	8.0	20	600	TO-78
2N3809	2N3965	60	300-900	@	0.1	10	8.0	20	360	TO-78
2N3810	2N3965	60	150-450	@	0.1	10	5.0	10	600	TO-78
2N3810A	2N3965	60	150-450	@	0.1	10	5.0	5	600	TO-78
2N3811	2N3965	60	300-900	@	0.1	10	5.0	10	360	TO-78
2N3811A	2N3965	60	300-900	@	0.1	10	5.0	5	600	TO-78
2N4015	2N2907A	60	135-350	@	1.0	10	5.0	20	500	TO-77
2N4016	2N2907A	60	135-350	@	1.0	10	2.5	10	500	TO-77
2N4020	2N3964	45	250-600	@	0.01	20	5.0	20	600	TO-77
2N4021	2N3962	60	100-350	@	0.01	20	5.0	20	600	TO-77
2N4022	2N3965	60	250-600	@	0.1	20	5.0	20	600	TO-77
2N4023	2N3964	45	250-600	@	0.1	10	3.0	10	600	TO-77
2N4024	2N3962	60	100-350	@	0.1	10	3.0	10	600	TO-77
2N4025	2N3965	60	250-600	@	0.1	10	3.0	10	600	TO-77
2N4937	2N3251	40	40-200	@	0.1	10	3.0	10	600	TO-78
2N4938	2N3251	40	40-200	@	0.1	20	5.0	20	600	TO-78
2N5255	2N3962	40	150-750	@	0.1	20	5.0	20	600	TO-78
2N5256	2N3962	40	150-750	@	0.1	10	3.0	10	600	TO-78
2N5843	2N3962	40	50-150	@	0.1	5	2.0	8	600	TO-78
2N5844	2N3962	40	100-300	@	0.1	5	2.0	8	600	TO-78

Preferred devices in bold type

TRANSISTORS—MULTIPLE TRANSISTORS
NPN UNMATCHED DUAL TRANSISTORS (NUMERIC LISTING)
METAL CAN

TYPE	EQUIV. SINGLE DEVICE	V _{CEO} VOLTS MIN	h _{FE}			P _D (Total) T _A = 25°C mW	Package
			h _{FE} MIN - MAX	@	I _C mA		
MD918	2N918	15	50	@	1.00	400	TO-78
MD2218A	2N2218A	40	40 - 120	@	150	600	TO-78
MD2219A	2N2219A	40	100 - 300	@	150	600	TO-78
2N2641	2N2484	45	50 - 300	@	0.01	600	TO-77
2N2644	2N2484	45	100 - 300	@	0.01	600	TO-77
2N2913	2N930	45	60 - 240	@	0.01	500	TO-77
2N2914	2N930	45	150 - 600	@	0.01	500	TO-77
2N2972	2N2484	45	60 - 250	@	0.01	300	TO-71
2N2973	2N2484	45	150 - 600	@	0.01	300	TO-71
2N3045	2N930	45	100 - 300	@	0.01	350	TO-89
2N3425	2N3014	15	30 - 120	@	100	550	TO-77
2N4955	2N2484	25	60 - 600	@	0.01	600	TO-77
2N5793	2N2222	40	40 - 120	@	150	600	TO-78
2N5794	2N2222	40	100 - 300	@	150	600	TO-78

PNP UNMATCHED DUAL TRANSISTORS (NUMERIC LISTING)
METAL CAN

TYPE	EQUIV. SINGLE DEVICE	V _{CEO} VOLTS MIN	h _{FE}			P _D (Total) T _A = 25°C mW	Package
			h _{FE} MIN - MAX	@	I _C mA		
MD2904A	2N2904A	60	40 - 120	@	150	600	TO-78
MD2905A	2N2905A	60	100 - 300	@	150	600	TO-78
2N3800	2N3965	60	150 - 450	@	0.10	360	TO-71
2N3801	2N3962	60	300 - 900	@	0.10	360	TO-72
2N3806	2N3965	60	150 - 450	@	0.10	600	TO-77
2N3807	2N3962	60	300 - 900	@	0.10	360	TO-78
2N4017	2N3964	80	100 - 350	@	0.01	600	TO-77
2N4018	2N3962	60	100 - 500	@	0.01	600	TO-77
2N4019	2N3965	45	250 - 500	@	0.10	600	TO-77
2N5795	2N2907	60	40 - 120	@	150	600	TO-78
2N5796	2N2907A	60	100 - 300	@	150	600	TO-78
2N5254	2N3962	40	50 - 750	@	0.10	600	TO-78

NPN—PNP UNMATCHED COMPLEMENTARY TRANSISTORS

TYPE	EQUIV. SINGLE DEVICE	V _{CEO} VOLTS MIN	h _{FE}			P _D (Total) T _A = 25°C mW	Package
			h _{FE} MIN - MAX	@	I _C mA		
2N4854	2N2222 - 2N2907	40	100 - 300	@	150	600	TO-78
2N4855	2N2222 - 2N2907	40	40 - 120	@	150	600	TO-78

TRANSISTORS—MULTIPLE TRANSISTORS

NPN DARLINGTON AMPLIFIER TRANSISTORS (NUMERIC LISTING) METAL AND PLASTIC PACKAGE

TYPE	V_{CE0}	h_{FE}		f_T	C_{ob}	P_D	Package
	VOLTS	h_{FE}	@ I_C				
	MIN	MIN - MAX	mA	MIN	MAX	mW	
MPSA12	20	20000	@ 10			310	TO-92
MPSA13	30	5000	@ 10	125		310	TO-92
MPSA14	30	10000	@ 10	125		310	TO-92
2N997	40	7000 - 70000	@ 100	60	30	500	TO-72
2N998	60	1600 - 8000	@ 10	60	30	500	TO-72
2N999	60	7000 - 70000	@ 100	60	20	500	TO-72
2N2723	60	2000 - 70000	@ 10	100	10	500	TO-72
2N2724	60	7000 - 50000	@ 10	100	10	500	TO-72
2N2725	45	2000 - 10000	@ 10	100	10	500	TO-72

PNP DARLINGTON AMPLIFIER TRANSISTORS PLASTIC PACKAGE

TYPE	V_{CE0}	h_{FE}		f_T	C_{ob}	P_D	Package
	VOLTS	h_{FE}	@ I_C				
	MIN	MIN - MAX	mA	MIN	MAX	mW	
MPSA65	30	50000	@ 10	100		310	TO-92
MPSA66	30	75000	@ 10	100		310	TO-92

NPN QUAD CORE DRIVER TRANSISTORS PLASTIC PACKAGE

TYPE	V_{CE0}	h_{FE}		$V_{CE(sat)}$		f_T	t_{off}	P_D	Package
	VOLTS	h_{FE}	@ I_C	VOLTS@ I_C	@ I_C				
	MIN	MIN - MAX	mA	MAX	mA	MIN	MAX	W	
FPO3724	40	30	@ 500	0.5	@ 500	200	200	1.2	9G
FPO3725	50	20	@ 500	0.5	@ 500	200	60	1.2	9G

PNP QUAD CORE DRIVER TRANSISTORS PLASTIC PACKAGE

TYPE	V_{CE0}	h_{FE}		$V_{CE(sat)}$		f_T	t_{off}	P_D	Package
	VOLTS	h_{FE}	@ I_C	VOLTS@ I_C	@ I_C				
	MIN	MIN - MAX	mA	MAX	mA	MIN	MAX	W	
FPO3467	40	30	@ 500	0.5	@ 500	200	90	1.2	9G
FPO3468	50	20	@ 500	0.5	@ 500	200	90	1.2	9G

Preferred devices in bold type

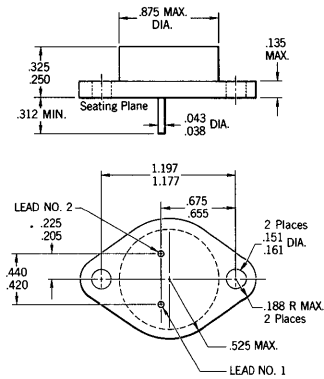
TRANSISTORS—UNENCAPSULATED

NPN AND PNP

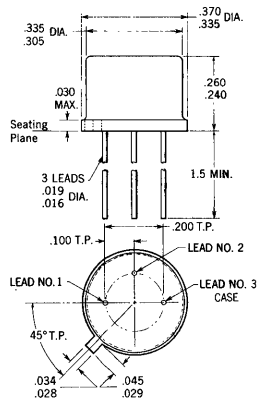
TYPE	POL.	BASIC V_{CE0} STANDARD VOLTS		I_{CBO} nA @ V_{CB}		h_{FE} @ I_C		CHIP SIZE MILS	BASIC APPLICATION
		DEVICE	MIN	MAX	VOLTS	MIN-MAX	mA		
DN2484	NPN	2N2484	60	20 @ 45	250	@ 1	1	17.5 x 17.5	Low Level, Low Noise Amplifier
DN3962	PNP	2N3962	60	20 @ 50	100 - 450	@ 1	1	13 x 26	Low Level, Low Noise Amplifier
DN918	NPN	2N918	15	20 @ 15	20	@ 3	3	10 x 15	R.F. Amplifier
DN3250	PNP	2N3250	40	20 @ 40	50 - 300	@ 10	10	11 x 18	R.F. Amplifier
DN3904	NPN	2N3904	40	50 @ 30	100 - 300	@ 10	10	10 x 15	General Purpose Amplifier
DN3906	PNP	2N3906	40	50 @ 30	100 - 300	@ 10	10	11 x 18	General Purpose Amplifier
DN2222A	NPN	2N2222A	40	20 @ 60	100 - 300	@ 100	100	20 x 20	G.P. Amplifier and Switch
DN2907	PNP	2N2907	40	20 @ 50	100 - 300	@ 100	100	22.5 x 22.5	G.P. Amplifier and Switch
DN3019	NPN	2N3019	80	20 @ 90	100 - 300	@ 100	100	20 x 20	G.P. Amplifier and Switch
DN4033	PNP	2N4033	80	50 @ 60	100 - 300	@ 100	100	27 x 33	G.P. Amplifier and Switch
DN3923	NPN	2N3923	150	20 @ 100	30 - 120	@ 25	25	20 x 20	High Voltage Amplifier and Switch
DN3930	PNP	2N3930	180	20 @ 100	80 - 300	@ 10	10	22.5 x 22.5	High Voltage Amplifier and Switch
DN3742	NPN	2N3742	300	200 @ 200	20 - 200	@ 30	30	35 x 35	High Voltage Amplifier and Switch
DN3743	PNP	2N3743	300	300 @ 200	25 - 250	@ 30	30	45 x 45	High Voltage Amplifier and Switch
DN2369A	NPN	2N2369A	15	400 @ 20	40 - 120	@ 10	10	10 x 15	High Speed Saturated Switch
DN4209	PNP	2N4209	15	20 @ 8	35	@ 1	1	12 x 17	High Speed Saturated Switch
DN3014	NPN	2N3014	20	300 @ 20	30 - 120	@ 30	30	15 x 15	High Speed Saturated Switch
DN5455	PNP	2N5455	20	50 @ 15	30 - 120	@ 30	30	17.5 x 17.5	High Speed Saturated Switch
DN3725	NPN	2N3725	50	1700 @ 60	60 - 150	@ 100	100	30 x 30	High Speed Core Driver
DN3468	PNP	2N3468	50	100 @ 30	25	@ 100	100	27 x 33	High Speed Core Driver

Package Outlines

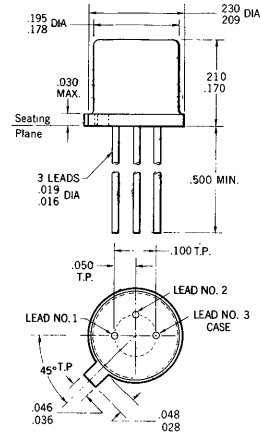
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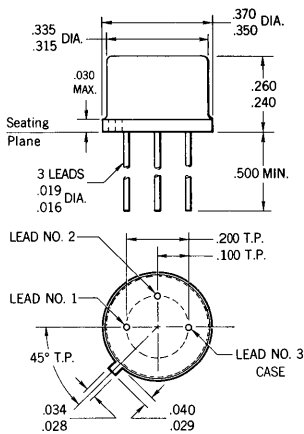
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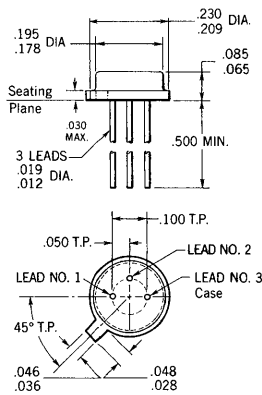
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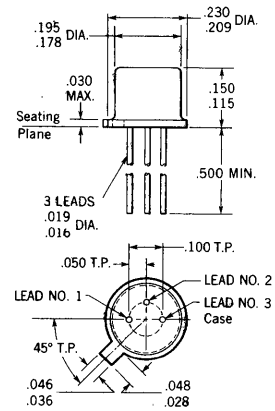
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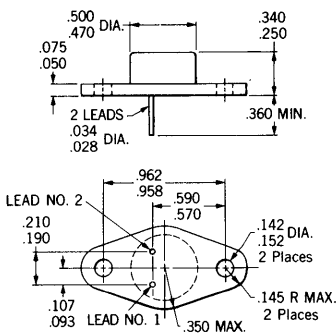
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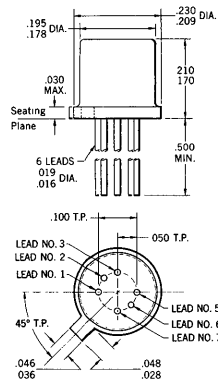
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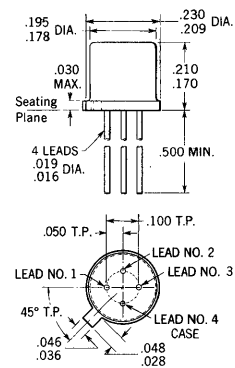
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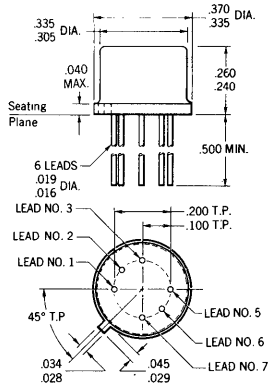
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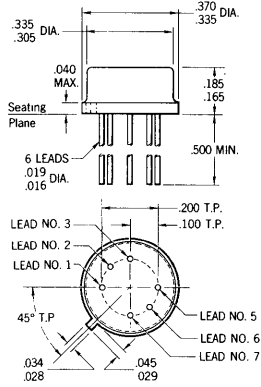
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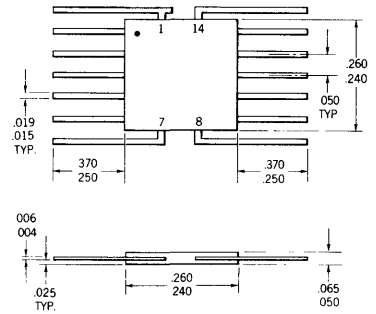
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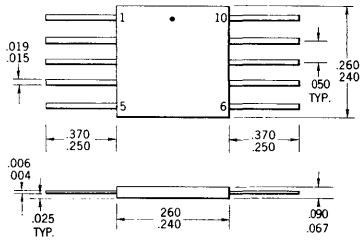
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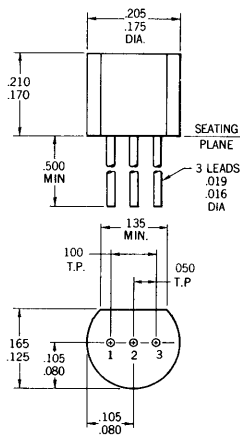
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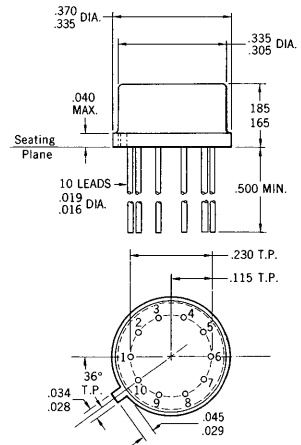
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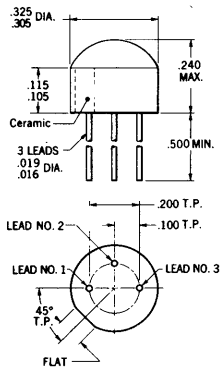
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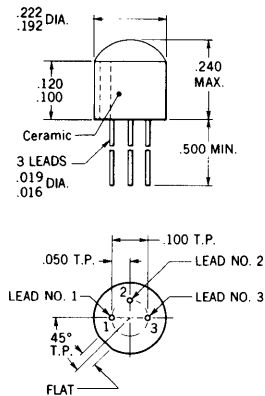
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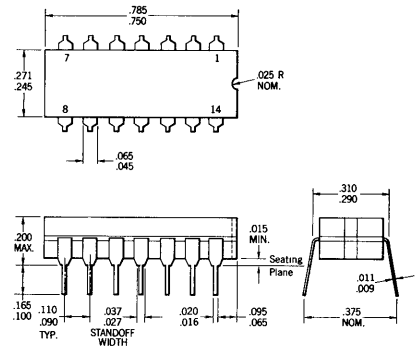
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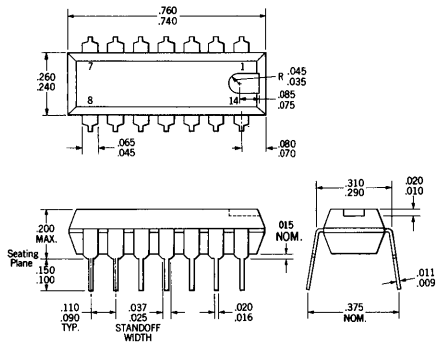
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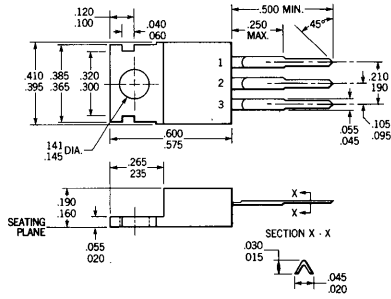
**TO-116 (6A)
Ceramic**



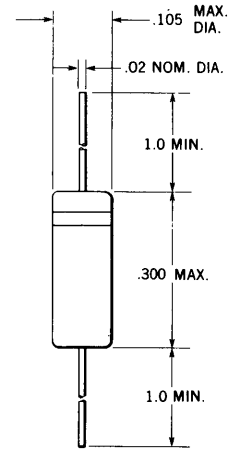
TO-116 (9A)
Plastic



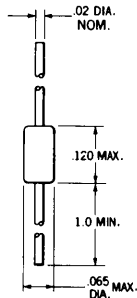
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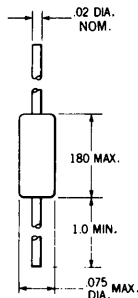
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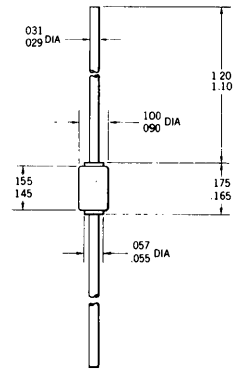
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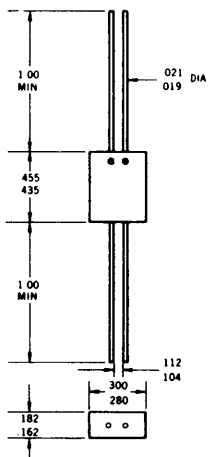
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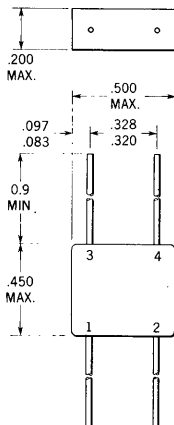
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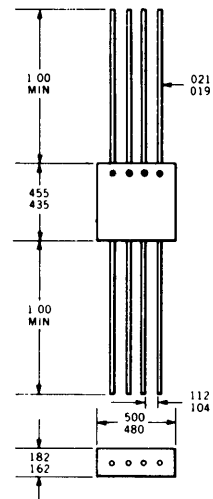
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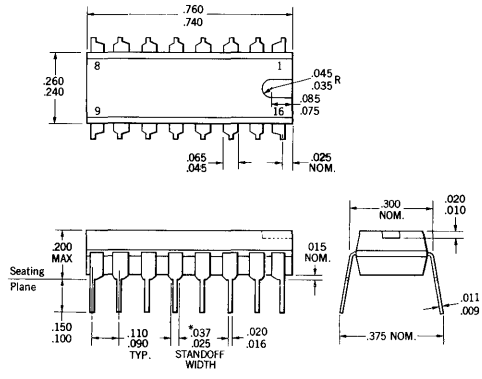
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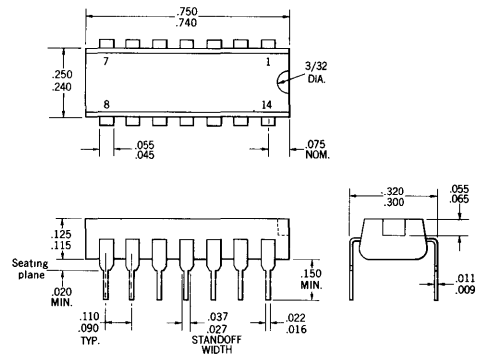
—310



(9B)



(9G)



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