	DEVICE POLARITY		I _C Max A	V _{CEO} Max V	hpe Min/Max	α IC A	V _{CE} (Max		[†] T Min MHz	PD(Max) T _C =25°C W	PACK- AGE
ŀ	2N3054	NPN	4.0	55	25/150	0.5	1.0	0.5		25	TO-66
- 1	2N3055	NPN	15	60	20/70	4.0	1.1	4.0	-	117	TO-3
	2N3055SD	NPN	15	60	20/70	4.0	1.1	4.0	0.8	115	TO-3
- 1	2N3439	NPN	1.0	350	40/160	0.02	0.5	0.05	15	10	TO-39
- 1	2N3440	NPN	1.0	250	40/160	0.02	0.5	0.05	15	10	TO-39
١	2N3713	NPN	10	60	25/75	1.0	1.0	5.0	4.0	150	то-3
١	2N3713 2N3714	NPN	10	80	25/75	1.0	1.0	5.0	4.0	150	TO-3
	2N3714 2N3715	NPN	10	60	50/150	1.0	0.8	5.0	4.0	150	TO-3
	2N3715 2N3716	NPN	10	80	50/150	1.0	0.8	5.0	2.5	150	TO-3
	2N3740	PNP	1.0	60	30/100	0.25	0.6	1.0	4.0	- 25	TO-66
l			4.0		00/100		0.6	1.0	4.0	25	TO-66
	2N3741	PNP	1.0	80	30/100	0.25 0.5	0.6 1.0	0.5	10	20	TO-66
١	2N3766	NPN	3.0	60	40/160 40/160	0.5	1.0	0.5	10	20	TO-66
١	2N3767	NPN	3.0	80	15/60	15	2.0	15	0.2	150	TO-3
١	2N3771	NPN	30	40	15/60	10	1.4	10	0.2	150	TO-3
1	2N3772	NPN	20	60	15/60	''	1.44	10			
١	2N3789	PNP	10	60	25/90	1.0	1.0	5.0	4.0	150	TO-3
ı	2N3790	PNP	10	80	25/90	1.0	1.0	5.0	4.0	150	TO-3
ŀ	2N3791	PNP	10	60	50/180	1.0	1.0	5.0	4.0	150	TO-3
1	2N3792	PNP	10	80	50/180	1.0	1.0	5.0	4.0	150	TO-3
١	2N4231	NPN	4.0	40	25/100	1.5	0.7	1.5	4.0	35	TO-66
					705 (100		0.7		40	35	TO-66
1	2N4232	NPN	4.0	60	25/100	1.5	0.7	1.5	4.0 4.0	35	TO-66
١	2N4233	NPN	4.0	80	25/100	1.5 0.25	0.7 0.6	1.5 1.0	3.0	6.0	TO-39
1	2N4234	PNP	3.0	40	30/150		0.6	1.0	3.0	6.0	TO-39
	2N4235	PNP	3.0	60 80	30/150 30/150	0.25 0.25	0.6	1.0	3.0	6.0	TO-39
	2N4236	PNP	3.0	80	30/130	0.25	0.0	1.0	0.0	0.0	"
ı	2N4237	NPN	4.0	40	30/150	0.25	0.6	1.0	1.0	6.0	TO-39
١	2N4238	NPN	4.0	60	30/150	0.25	0.6	1.0	1.0	6.0	TO-39
ı	2N4239	NPN	4.0	80	30/150	0.25	0.6	1.0	1.0	6.0	TO-39
١	2N4398	PNP	30	40	15/60	15	1.0	15	4.0	200	TO-3
١	2N4399	PNP	30	60	15/60	15	1.0	15	4.0	200	TO-3
	2N4895	NPN	5.0	60	40/120	2.0	1.0	5.0	50	7.0	TO-39
١	2N4896	NPN	5.0	60	100/300	2.0	1.0	5.0	80	7.0	TO-39
Į	2N4897	NPN	5.0	80	40/120	2.0	1.0	5.0	50	7.0	TO-39
ł	2N4898	PNP	1.0	40	20/100	0.5	0.6	1.0	3.0	25	TO-66
	2N4899	PNP	1.0	60	20/100	0.5	0.6	1.0	3.0	25	TO-66
	2N4900	PNP	1.0	80	20/100	0.5	0.6	1.0	3.0	25	TO-66
ļ	2N4900 2N4901	PNP	5.0	40	20/80	1.0	1.5	5.0	4.0	87.5	TO-3
	2N4901 2N4902	PNP	5.0	60	20/80	1.0	1.5	5.0	4.0	87.5	TO-3
	2N4903	PNP	5.0	80	20/80	1.0	1.5	5.0	4.0	87.5	TO-3
	2N4904	PNP	5.0	40	25/100	2.5	1.5	5.0	4.0	87.5	TO-3
-	2014005	DAID	5.0	60	25/100	2.5	1.5	5.0	4.0	87.5	TO-3
	2N4905	PNP PNP	5.0	80	25/100	2.5	1.5	5.0	4.0	87.5	TO-3
	2N4906 2N4907	PNP	10	40	20/80	4.0	0.75	4.0	4.0	150	TO-3
	2N4907 2N4908	PNP	10	60	20/80	4.0	0.75	4.0	4.0	150	TO-3
ļ	2N4908 2N4909	PNP	10	80	20/80	4.0	2.0	10	4.0	150	TO-3
					00/400	۰		4.0	40	25	TO-66
	2N4910	NPN	1.0	40	20/100	0.5	0.6	1.0 1.0	4.0	25 25	TO-66
	2N4911	NPN	1.0	60	20/100	0.5	0.6	1.0	4.0	25	TO-66
	2N4912	NPN	1.0	80	20/100	0.5 2.5	1.5	5.0	4.0	87.5	TO-30
	2N4913	NPN	5.0	40 60	25/100 25/100	2.5	1.5	5.0	4.0	87.5	TO-3
	2N4914 NPN 5.0		J 5.0	1 60	20/100	2.0	'.5	5.0	J 7.0	1 57.5	1 .0.0

1	DEVICE POLARITY		V _{CEO} Max V	h _{FE} Min/Mar	VCI Max V	E(sat) (a) IC A	f _T Min MHz	P _{D(Max)} T _C =25°C W	PACK- AGE	
2N4915 2N5038 2N5039 2N5058 2N5059	NPN NPN NPN NPN NPN	5.0 20 20 0.15 0.15	80 90 75 300 250	25/100 20/100 20/100 35/150 30/150	2.5 12 10 .03 .03	1.5 1.0 1.0 1.0	5.0 12 10 .03	4.0 60 60 30 30	87.5 140 140 1.0 1.0	TO-3 TO-3 TO-3 TO-39 TO-39
2N5067 2N5068 2N5069 2N5301 2N5302	NPN NPN NPN NPN NPN	5.0 5.0 5.0 30 30	40 60 80 40 60	20/80 20/80 20/80 15/60 15/60	1.0 1.0 1.0 15 15	0.4 0.4 0.4 2.0 2.0	1.0 1.0 1.0 20 20	4.0 4.0 4.0 2.0 2.0	87.5 87.5 87.5 200 200	TO-3 TO-3 TO-3 TO-3 TO-3
2N5303 2N5320 2N5321 2N5322 2N5323	NPN NPN NPN PNP PNP	20 2.0 2.0 2.0 2.0	80 75 50 75 50	15/60 30/130 40/250 30/130 40/250	10 0.5 0.5 0.5 0.5	2.0 0.5 0.8 0.5 0.8	20 0.5 0.5 0.5 0.5	2.0 50 50 50 50	200 10 10 10 10	TO-3 TO-39 TO-39 TO-39 TO-39
2N5334 2N5335 2N5336 2N5337 2N5338	NPN NPN NPN NPN NPN	3.0 3.0 5.0 5.0 5.0	60 80 80 80 100	30/150 30/150 30/120 60/240 30/120	1.0 1.0 2.0 2.0 2.0	0.7 0.7 0.7 0.7 0.7	2.0 2.0 2.0 2.0 2.0	40 40 30 30 30	6.0 6.0 6.0 6.0	TO-39 TO-39 TO-39 TO-39 TO-39
2N5339 2N5415 2N5416 2N5629 2N5630	NPN PNP PNP NPN NPN	5.0 1.0 1.0 16 16	100 200 300 100 120	60/240 30/150 30/120 25/100 20/80	2.0 0:05 0.05 8.0 8.0	0.7 2.5 2.0 1.0	2.0 0.05 0.05 10 10	30 15 15 0.5 0.5	6.0 10 10 200 200	TO-39 TO-39 TO-39 TO-3 TO-3
2N5631 2N5679 2N5680 2N5681 2N5682	NPN PNP PNP NPN NPN	16 1.0 1.0 1.0 1.0	140 100 120 100 120	15/60 40/150 40/150 40/150 40/150	8.0 0.25 0.25 0.25 0.25	1.0 1.0 1.0 1.0	10 0.5 0.5 0.5 0.5	0.5 30 30 30 30	200 10 10 10 10	TO-3 TO-39 TO-39 TO-39 TO-39
2N5683 2N5684 2N5685 2N5686 2N5838	PNP PNP NPN NPN NPN	50 50 50 50 3.0	60 80 60 80 250	15/60 15/60 15/60 15/60 8/40	25 25 25 25 25 3.0	1.0 1.0 1.0 1.0	25 25 25 25 25 3.0	2.0 2.0 2.0 2.0 5.0	300 300 300 300 100	TO-3 TO-3 TO-3 TO-3 TO-3
2N5839 2N5840 2N5871 2N5872 2N5873	NPN NPN PNP PNP NPN	3.0 3.0 7.0 7.0 7.0	275 350 60 80 60	10/50 10/50 20/100 20/100 20/100	2.0 2.0 2.5 2.5 2.5	1.5 1.5 1.0 1.0	2.0 2.0 4.0 4.0 4.0	5.0 5.0 4.0 4.0 4.0	100 100 115 115 115	TO-3 TO-3 TO-3 TO-3 TO-3
2N5874 2N5875 2N5876 2N5877 2N5878	NPN PNP PNP NPN NPN	7.0 8.0 8.0 8.0 8.0	80 60 80 60 80	20/100 20/100 20/100 20/100 20/100	2.5 4.0 4.0 4.0 4.0	1.0 1.0 1.0 1.0	4.0 5.0 5.0 5.0 5.0	4.0 4.0 4.0 4.0 4.0	115 150 150 150 150	TO-3 TO-3 TO-3 TO-3 TO-3
2N5879 2N5880 2N5881 2N5882 2N5883	PNP PNP NPN NPN PNP	12 12 12 12 12 20	60 80 60 80 60	20/100 20/100 20/100 20/100 20/100	6.0 6.0 6.0 6.0	1.0 1.0 1.0 1.0	7.0 7.0 7.0 7.0 15	4.0 4.0 4.0 4.0 4.0	160 160 160 160 200	TO-3 TO-3 TO-3 TO-3 TO-3

DEVICE POLARITY		I _C Max A	V _{CEO} Max V	h _{FE} Min∕Max (alc A	V _{CE} (Max ((sat) @ I _C A	f _T Min MHż	P _{D(Max)} T _C =25°C W	PACK- AGE
2N5884	PNP	20	80	20/100	10	1.0	15	4.0	200	TO-3
2N5885	NPN	20	60	20/100	10	1.0	15	4.0	200	TO-3
2N5886	NPN	20	80	20/100	10	1.0	15	4.0	200	TO-3
2N6029	PNP	16	100	25/100	8.0	2.0	16	1.0	200	TO-3
2N6030	PNP	16	120	20/80	8.0	2.0	16	-1.0	200	TO-3
2N6031	PNP	16	140	15/60	8.0	2.0	46	1.0	200	TO-3
2N6050	PNP	12	60	750/18K	6.0	2.0	6.0	4.0	150	TO-3
2N6051	PNP	12	80	750/18K	6.0	2.0	6.0	4.0	150	TO-3
2N6052	PNP	12	100	750/18K	6.0	2.0	6.0	4.0	150	TO-3
2N6053	PNP	8.0	60	750/18K	4.0	2.0	4.0	4.0	100	TO-3
2N6054	PNP	8.0	80	750/18K	4.0	2.0	4.0	4.0	100	TO-3
2N6055	NPN	8.0	60	750/18K	4.0	2.0	4.0	4.0	100	TO-3
2N6056	NPN	8.0	80	750/18K	4.0	2.0	4.0	4.0	100	TO-3
2N6057	NPN	12	60	750/18K	6.0	2.0	6.0	4.0	150	TO-3
2N6058	NPN	12	80	750/18K	6.0	2.0	6.0	4.0	150	TO-3
2N6059	NPN	12	100	750/18K	6.0	2.0	6.0	4.0	150	TO-3
2N6121	NPN	4.0	45	25/100	1.5	0.6	1.5	2.5	40	TO-220
2N6122	NPN	4.0	60	25/100	1.5	0.6	1.5	2.5	40	TO-220
2N6123	NPN	4.0	80	20/80	1.5	0.6	1.5	2.5	40	TO-220
2N6124	PNP	4.0	45	25/100	1.5	0.6	1.5	2.5	40	TO-220
2N6125	PNP	4.0	60	25/100	1.5	0.6	1.5	2.5	40	TO-220
2N6126	PNP	4.0	80	20/80	1.5	0.6	1.5	2.5	40	TO-220
2N6129	NPN	7.0	40	20/100	2.5	1.4	7.0	2.5	50	TO-220
2N6130	NPN	7.0	60	20/100	2.5	1.4	7.0	2.5	50	TO-220
2N6131	NPN	7.0	80	20/100	2.5	2.0	7.0	2.5	50	TO-220
2N6132	PNP	7.0	40	20/100	2.5	1.4	7.0	2.5	50	TO-220
2N6133	PNP	7.0	60	20/100	2.5	1.4	7.0	2.5	50	TO-220
2N6134	PNP	7.0	80	20/100	2.5	2.0	7.0	2.5	50	TO-220
2N6249	NPN	10	200	10/50	10	1.5	10	2.5	100	TO-3
2N6250	NPN	10	275	8/50	10	1.5	10	2.5	100	TO-3
2N6251	NPN	10	350	6/50	10	1.5	10	2.5	100	TO-3
2N6282	NPN	20	60	750/18K	10	2.0	10	4.0	160	TO-3
2N6283	NPN	20	80	750/18K	10	2.0	10	4.0	160	TO-3
2N6284	NPN	20	100	750/18K	10	.2.0	10	4.0	160	TO-3
2N6285	PNP	20	60	750/18K	10	2.0	10	4.0	160	TO-3
2N6286	PNP	20	80	750/18K	10	2.0	10	4.0	160	TO-3
2N6287	PNP	20	100	750/18K	10	2.0	10	4.0	160	TO-3
2N6306	NPN	8.0	250	15/75	3.0	0.8	3.0	5.0	125	TO-3
2N6307	NPN	8.0	300	15/75	3.0	1.0	3.0	5.0	125	TO-3
2N6308	NPN	8.0	350	12/60	3.0	1.5	3.0	5.0	125	TO-3
2N6383	NPN	10	40	1K/20K	5.0	2.0	5.0	20	100	TO-3
2N6384	NPN	10	60	1K/20K	5.0	2.0	5.0	20	100	TO-3
2N6385	NPN	10	80	1K/20K	5.0	2.0	5.0	20	100	TO-3
2N6386	NPN	10	40	1K/20K	3.0	2.0	3.0	20	40	TO-220
2N6387 2N6388	NPN NPN	10 10	60 80	1K/20K 1K/20K	3.0 3.0	2.0 2.0	3.0 3.0	20 20	40 40	TO-220 TO-220
2N6473	NPN	4.0	100	15/150	1.5	1.2	1.5	10	40	TO-220
2N6474	NPN	4.0	120	15/150	1.5	1.2	1.5	10	40	TO-220
2N6475	PNP	4.0	100	15/150	1.5	1.2	1.5	10	40	TO-220
2N6476	PNP	4.0	120	15/150	1.5	1.2	1.5	10	40	TO-220
2N6486	NPN	15	40	20/150	5.0	1.3	5.0	5.0	75	TO-220

	/ICE ARITY	IC Max A	V _{CEO} Max V	h _{FE} Min/Max		V _{CE} Max V		f _T Min MHz	P _D (Max) T _C =25°C W	PACK- AGE
2N6487	NPN	15	60	20/150	5.0	1.3	5.0	5.0	75	TO-220
2N6488	NPN	15	80	20/150	5.0	1.3	5.0	5.0	75	TO-220
2N6489	PNP	15	40	20/150	5.0	1.3	5.0	5.0	75	TO-220
2N6490	PNP	15	60	20/150	5.0	1.3	5.0	5.0	75	TO-220
2N6491	PNP	15	80	20/150	5.0	1.3	5.0	5.0	75	TO-220
2N6569	NPN	12	40	15/200	4.0	1.5	4.0	1.5	100	то-3
2N6576	NPN	15	60	2K/20K	4.0	4.0	15	10	120	TO-3
2N6577	NPN	15	90	2K/20K	4.0	4.0	15	10	120	TO-3
BC323	NPN	5.0	60	50/250	0.5	0.15	0.5		7.0	TO-39
BD220	NPN	4.0	70	30/120	0.5	1.0	0.5	0.8	36	TO-220
BD221	NPN	4.0	40	30/120	1.0	1.0	1.0	8.0	36	TO-220
BD222	NPN	4.0	60	20/80	1.5	1.0	1.5	0.8	36	TO-220
BD223	PNP	4.0	70	30/120	0.5	1.0	0.5	0.8	36	TO-220
BD224	PNP	4.0	40	30/120	1.0	1.0	1.0	0.8	36	TO-220
BD225	PNP	4.0	60	20/80	1.5	1.0	1.5	8.0	36	TO-220
BFX34	NPN	5.0	60	40/150	2.0	1.0	5.0	70	5.0	то-39
BF257	NPN	0.1	160	25/-	0.03	1.0	0.03	75*	1.0	TO-39
BF258	NPN	0.1	250	25/-	0.03	1.0	0.03	75*	1.0	TO-39
BF259	NPN	0.1	300	25/-	0.03	1.0	0.03	75*	1.0	TO-39
BF336	NPN	0.1	180	20/-	0.03	-	-	50	1.0	TO-39
BF337	NPN	0.1	200	20/-	0.03	-	-	50	1.0	TO-39
BF338	NPN	0.1	225	20/-	0.03			50	1.0	TO-39
TIP29 TIP29A	NPN NPN	3.0 3.0	40 60	15/75 15/75	1.0 1.0	0.7	1.0 1.0	3.0 3.0	30 30	TO-220 TO-220
		ł				l				
TIP29B	NPN	3.0	80	15/75	1.0	0.7	1.0	3.0	30	TO-220
TIP29C	NPN	3.0	100	15/75	1.0	0.7	1.0	3.0	30	TO-220
TIP30	PNP	3.0	40	15/75	1.0	0.7	1.0	3.0	30	TO-220
TIP30A	PNP	3.0	60	15/75	1.0	0.7	1.0	3.0	30	TO-220
TIP30B	PNP	3.0	80	15/75	1.0	0.7	1.0	3.0	30	TO-220
TIP30C	PNP	3.0	100	15/75	1.0	0.7	1.0	3.0	30	TO-220
TIP31	NPN	5.0	40	10/50	3.0	1.2	3.0	3.0	40	TO-220
TIP31A	NPN	5.0	60	10/50	3.0	1.2	3.0	3.0	40	TO-220
TIP31B	NPN	5.0	80	10/50	3.0	1.2	3.0	3.0	40	TO-220
TIP31C	NPN	5.0	100	10/50	3.0	1.2	3.0	3.0	40	TO-220
TIP32	PNP	5.0	40	10/50	3.0	1.2	3.0	3.0	40	TO-220
TIP32A	PNP	5.0	60	10/50	3.0	1.2	3.0	3.0	40	TO-220
TIP32B	PNP	5.0	80	10/50	3.0	1.2	3.0	3.0	40	TO-220
TIP32C	PNP	5.0	100	10/50	3.0	1.2	3.0	3.0	40	TO-220
TIP41	NPN	6.0	40	30/-	0.3	1.5	6.0	3.0	65	TO-220
TIP41A	NPN	6.0	60	30/-	0.3	1.5	6.0	3.0	65	TO-220
TIP41B	NPN	6.0	80	30/-	0.3	1.5	6.0	3.0	65	TO-220
TIP41C	NPN	6.0	100	30/-	0.3	1.5	6.0	3.0	65	TO-220
TIP42	PNP	6.0	40	30/-	0.3	1.5	6.0 6.0	3.0	65 65	TO-220
TIP42A	PNP	6.0	60	30/-	0.3	1.5	6.0	3.0	05	TO-220
TIP42B	PNP	6.0	80	30/-	0.3	1.5	6.0	3.0	65	TO-220
TIP42C	PNP	6.0	100	30/-	0.3	1.5	6.0	3.0	65	TO-220
TIP61	NPN	0.5	40	40/-	0.05	0.7	0.5	3.0	15	TO-220
TIP61A	NPN	0.5	60	40/-	0.05	0.7	0.5	3.0	15	TO-220
TIP618	NPN	0.5	80	40/-	0.05	0.7	0.5	3.0	15	TO-220

DEVICE		I _C Max	V _{CEO} Max	h _{FE} Min∕Ma× @ l _C		V _{CE(sat)} Max @ I _C		f _T Min	P _{D(Max)} T _C =25°C	PACK- AGE
POLA	ARITY	Α	V		A	V	A	MHz	w	
TIP61C	NPN	0.5	100	40/-	0.05	0.7	0.5	3.0	15	TO-220
TIP62	PNP	0.5	40	40/-	0.05	0.7	0.5	3.0	15	TO-220
TIP62A	PNP	0.5	60	40/-	0.05	0.7	0.5	3.0	15	TO-220
TIP62B	PNP	0.5	80	40/-	0.05	0.7	0.5	3.0	15	TO-220
TIP62C	PNP	0.5	100	40/-	0.05	0.7	0.5	3.0	15	TO-220
TIP110	NPN	2.0	60	1K/-	1.0	2.5	2.0	-	50	TO-220
TIP111	NPN	2.0	80	1K/-	1.0	2.5	2.0	-	50	TO-220
TIP112	NPN	2.0	100	1K/-	1.0	2.5	2.0	-	50	TO-220
TIP115	PNP	2.0	60	1K/-	1.0	2.5	2.0	-	50	TO-220
TIP116	PNP	2.0	80	1K/-	1.0	2.5	2.0	-	50	TO-220
TIP117	PNP	2.0	100	1K/-	1.0	2.5	2.0	-	50	TO-220
TIP120	NPN	5.0	60	1K/-	0.5	2.0	3.0		65	TO-220
TIP121	NPN	5.0	80	1K/-	0.5	2.0	3,0		65	TO-220
TIP122	NPN	5.0	100	1K/-	0.5	2.0	3.0	-	65	TO-220
TIP125	PNP	5.0	60	1K/-	0.5	2.0	3.0	-	65	TO-220
TIP126	PNP	5.0	80	1K/-	0.5	2.0	3.0	-	65	TO-220
TIP127	PNP	5.0	100	1K/-	0.5	2.0	3.0	-	65	TO-220

TYPE	POLARITY		MAXI	MUM R	ATINGS	н	FE			V _{CE(S}	AT)	fT	COMPLE-
NO.	70 410	CASE	P _d (W)	IC (A)	VCEO (V)	min	max	IC (A)	VCE (V)	max (V)	IC (A)	min (MHz)	MENTARY TYPE
BD 239	N	TO-220B	30	2	45	15	_	1	4	0.7	1	3	BD 240
BD 239A	N	TO-2208	30 30	2 2	60 80	15 15	_	1	4	0.7 0.7		3 3	BD 240A BD 240B
BD 239B BD 240	N	TO-220B TO-220B	30	2	45	15	_	1	4	0.7	li	3	BD 239
BD 240A	P	TO-220B	30	2	60	15	_	1	4	0.7	i	3	BD 239A
BD 240B	P	TO-220B	30	2	80	15	_	1	4	0.7	1	3	BD 239B
BD 241	N	TO-220B	40	3	45	25	-	1	4	1.2	3	3	BD 242
BD 241A	N	TO-220B	40	3	60 80	25 25	_	1	4	1.2 1.2	3	3	BD 242A BD 242B
BD 241B BD 242	N P	TO-220B TO-220B	40 40	3	45	25	_	1	4	1,2	3	3	BD 241
BD 242A	P	TO-220B	40	3	60	25	_	1	4	1.2	3	3	BD 241A
BD 242B	P	TO-220B	40	3	80	25	_	1	4	1.2	3	3	BD 241B
BD 301	N	TO-220B	55	8	45	30	-	3	2	1	3	3	-
BD 303	N	TO-220B	55	8	60	30	-	3	2	1 0 5	3	3	BD 416
BD 415	N	TO-220B	2	1	60	80	300	0.05	1	0.5	0.25	75	BD 410
BD 416	P	TO-220B	2	1	60	80	300	0.05	1	0.5	0.25	75	BD 415
BD 417	N	TO-220B	2	1	80	80 80	300 300	0,05	1	0,5 0.5	0.25 0.25	75 75	BD 418 BD 417
BD 418 BD 533	P N	TO-220B TO-220B	50 50	1 4	80 45	25	300	2	2	0.8	2	3	BD 534
BD 535	N	TO-220B	50	4	60	25	_	2	2	0.8	2	3	BD 536
BD 537	N	TO-220B	50	4	80	15	_	2	2	0.8	2	3	BD 538
BD 633	N	TO-220B	30	2	45	25	-	1	2	0.6	1	3	BD 634
BD 634	P	TO-220B	30	2	45	25	-	1	2	0.6	1	3	BD 633
BD 635	N	TO-220B	30	2	60	25	-	1 1	2 2	0.6		3	BD 636 BD 635
BD 636	P	TO-220B	30	2	60	25	-	'	_	0.6]
BD 637 BD 638	N P	TO-220B TO-220B	30 30	2 2	80 80	25 25		1	2 2	0.6 0.6	1	3 3	BD 638 BD 637
CX 701	N	TO-220B	25	2	120	30	120	0.5	5	1 1	!	-	-
CX 701A	N	TO-220B	25 40	2 5	150 80	30 15	120 70	0.5	5 5	1 2	1 4	-	_
CX 702 CX 702A	N	TO-220B TO-220B	40	5	100	15	70	4	5	2	4	_	_
CX 702A	l N	TO-220B	30	4	50	40	240#	l i	2	1	2	3	CX 754
CX 754	P	TO-220B	30	4	50	40	240#	1.	2	1	2	3	CX 704
D 44C1	N	TO-220B	30	4	30	10	_	1	1	0.5	1	30+	D 45C1
D 44C2	N	TO-220B	30	4	30	20	-	1	!	0.5	1	30+	D 45C2
D 44C3 D 44C4	N	TO-220B TO-220B	30 30	4	30 45	20 10	_	2	1 1	0.5 0.5	1	30+ 30+	D 45C3 D 45C4
D 44C4 D 44C5	N	TO-220B	30	4	45	20	_	i	i	0.5	i	30+	D 45C5
D 44C6	N	TO-220B	30	4	45	20	_	2	1	0.5	1	30+	D 45C6
D 44C7	N	TO-220B	30	4	60	10	_	1	1	0.5	1	30+	D 45C7
D 44C8	N	TO-220B	30	4	60	20	-	1	1	0.5	1	30+	D 45C8
D 44C9 D 44C10	N	TO-220B TO-220B	30 30	4	60 80	10	_	2	1 1	0.5 0.5	1 1	30+ 30+	D 45C9 D 45C10
	N	TO-220B	30	4	80	20	_	1	1	0.5	1	30+	D 45C11
D 44C11 D 44C12	N	TO-220B	30	4	80	20	_	2	;	0.5	i	30+	D 45C12
D 45C1	P	TO-220B	30	4	30	10	_	1	i	0.5	1	30+	D 44C1
D 45C2	P	TO-220B	30	4	30	20	-	1	1	0.5	1	30+	D 44C2
D 45C3	P	TO-220B	30	4	30	20	-	2	1	0.5	1	30+	D 44C3
D 45C4	P	TO-220B	30	4	45	10	-	1	1	0.5	1	30+	D 44C4
D 45C5	P	TO-220B TO-220B	30 30	4	45 45	20 20	_	1 2	1 1	0.5 0.5	1	30+ 30+	D 44C5 D 44C6
D 45C6 D 45C7	P	TO-220B	30	4	60	10	_	1		0.5	l i	30+	D 44C6
D 45C8	P	TO-220B	30	4	60	20	_	i	i	0.5	i	30+	D 44C8
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#HFE groupings available + Typical value

TYPE	RITY		MAXIMUM RATINGS			н	FE			V _{CE(S}	AT)	fτ	COMPLE-
NO.	POLARITY	CASE	Pd (W)	IC (A)	VCEO (V)	min	max	<u>C</u> (A)	VCE (V)	max (V)	E)	min (MHz)	MENTARY TYPE
2SB 513A	Р	TO-220A	25	3	80	30	160#	1	3	1	2	_	2SD 366A
2SB 514	₽	TO-220B	20	2	50	40	320#	1	2	1	2	8+	2SD 330
2SB 515	P	TO-220A	20	2	50	40	320#	1	2	1	2	8+	2SD 331
2SB 523	P	TO-220B	10	2	20	55	300#	0.5	4	2	1.5	l –	_
2SB 526	P	TO-220B	10	0.8	80	55	300#	0.3	4	1	0.3	i	_
2SB 529	Р	TO-220B	10	2	20	55	300#	0.5	4	1	1.5	-	
2SC 789	N	TO-220B	30	4	60	40	240#	0.5	5	1.5	3	3	2SA 489
2SC 790	N	TO-220B	25	3	40	40	240#	0.5	2	1.4	2 2 2	3	2SA 490
2SC 1060	N	TO-220A	25	3	50	35	320#	0,1	4	1	2	3	2SA 670
2SC 1061	N	TO-220B	25	3	50	35	320#	0.1	4	1		3	2SA 671
2SC 1173	N	TO-220B	10	3	30	40	400#	0.5	2	0.8	2	100+	2SA 473
2SC 1626	N	TO-220B	10	0.75	80	70	240#	0.15	2	0.5	0.5	50	2SA 816
2SD 234	N	TO-220B	25	3	50	40	240#	0.5	5	1.2	3	1.5+	2\$B 434
2SD 235	N	TO-220B	25	3	40	40	240#	0.5	5	1	1	1.5+	2SB 435
2SD 288	N	TO-220B	20	3	60	40	200#	0.5	5	2	2	35+	-
2SD 289	N	TO-220A	20	3	60	40	200#	0.5	5	2	2	35+	_
2SD 313	N	TO-220B	30	3	60	40	320#	1	2	1	2	8+	2SB 507
2SD 314	N	TO-220A	30	3	60	40	320#	1	2	۱ ،	2	8+	2SB 508
2SD 330	N	TO-220B	20	2	50	40	320#	1	2	1 1	2	8+	2SB 514
2SD 331	N	TO-220A	20	2	50	40	320#	1	2	1	2	8+	2SB 515
2SD 356	l Ñ	TO-220B	10	0.8	80	55	300#	0.3	4	l 1	0.3	_	_
2SD 359	N	TO-220B	10	2	20	55	300#	0.5	4	1	1.5	-	_
2SD 360	l N	TO-220B	10	2	20	55	300#	0.5	4	2	1.5	_	
2SD 365	N	TO-220B	25	3	60	30	160#	1	3	1	2	3	2SB 512
2SD 365A	l Ñ	TO-220B	25	3	80	30	160#	1	3	1 1	2	3	2SB 512A
2SD 366	N.	TO-220A	25	3	60	30	160#	1	3	Ιi	2		2SB 513
2SD 366A	N	TO-220A	25	3	80	30	160#	i	3	1	2	-	2SB 513A
2SD 526	N	TO-220B	30	4	80	40	240#	0.5	5	1.5	3	3	2SB 596
2SD 570	N	TO-220B	30	4	70	40	240#	0.5	5	1.5	3	3	2SB 604

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Packaging Information



