

# 11. SILICON NPN - HIGH POWER TRANSISTORS

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

LINE No.	TYPE No.	MIN. DERATE J to C (W/C)	MAX. FREE AIR @ 25°C (W)	Pc	M A X	ABSOLUTE MAX. RATINGS @ 25°C					MAX. I CbO @ 25°C (A)		BIAS I Cb		MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y2000 Ser.	L C O A D E
						Ic (A)	Ib (A)	BVcbo (V)	VBvebo (V)	VBVceo (V)	Icbo (A)	MAX Vcb (A)	Ic (A)	MIN								
1#	2SC1075	133m	20	0	5	4.0	36	4.0	18	10u	130	400m	15	60	800M				PE	T98		
2#	2SC1337	133m	20	0	5	2.0	35	4.5	17	200u	100	100m	10	180	1.0G				PE	T0129		
3#	2SC1967	133m	20	0	5	2.0	35	4.0	17	200u	100	100m	10	180	1.0G				PE			
4#	2SC2124	133m	10	0	5	2.0	2.2k	5.0	800	1.0m	100	100m	10	180	4.0M		700n	DM	T03			
5#	2SC2237	133m	2.0	0	5	2.0	35	4.0	17	500u	100	100m	10	180	4.0M			PE	W96			
6#	2SC2312	133m	1.5	0	5	6.0	60	5.0	20	500u	100	100m	10	180	4.0M			PE	B26			
7#	2SC2509*	133m	20	0	5	5.0	40	4.0	18	1.0m	100	100m	10	180	200M			PE	Y220b			
8#	2SC2627	133m	20	0	5	2.0	35	4.0	17	1.0m	100	100m	10	180	200M			PE				
9#	2SC2932	133m	20	0	5	2.0	35	3.0	17	2.0m	10	0.1	10	180	200M			PE				
10#	2SD146	133m	20	0	5	1.0	40	5.0	35	20u	4.0	500m	30	150	1.4M	2.0		D	F6b			
11#	2SD147	133m	20	0	5	1.0	60	5.0	50	20u	4.0	500m	20	150	1.4M	2.0		D	F6b			
12#	2SD148†	133m	20	0	5	2.0	70	5.0	70	20u	4.0	2.0	35	150	1.2M	500m	1.3u	Δ	F12a			
13#	2SD155	133m	20	0	5	3.0	80	5.0	60	1.0m	2.0	2.0	4.0	145	150			ME	T066			
14#	2SD255	133m	20	0	5	3.0	70	5.0	60	1.0m	2.0	2.0	30	150			ME	T066				
15#	2SD580	133m	20	0	5	1.0	60	5.0	50	20u	4.0	500m	70	150				ME	T08			
16	40282	133m	23	0	5	2.0	36	4.0	18	250u	5.0	500m	35	150	350M			PE	T060			
17	40292	133m	23	0	5	1.2	40	4.0	50	250u	5.0	500m	35	150	300M			PE	T060			
18#	BD1241	133m	15	0	5	2.0	500m	70	6.0	45	2.0u	5.0	500m	35	150	60M	500m	75n	PE	F9c		
19#	BLY53A	133m	8.0	0	5	1.0	36	4.0	18	10u	5.0	500m	10	40	800M	400m		PE	T84			
20#	BUX341	133m	20	0	5	5.0	120	6.0	80	10u	2.0	2.0	40	150	85M	200m	140n	PE	R216h			
21#	BUY71	133m	10	0	5	2.0	2.2k	5.0	800	1.0m	100	100m	10	180	4.0M		700n	PL	T03			
22#	BUY80†	133m	20	0	5	5.0	150	7.0	60	10u	5.0	500m	40	60	60M	200m		PL	T039			
23	MJ2249	133m	20	0	5	2.0	500m	60	6.0	60	4.0	100m	25	200	10M	2.5		Δ	T066			
24	MJ2250	133m	20	0	5	2.0	500m	60	6.0	60	4.0	100m	25	200	10M	2.5		Δ	T066			
25	MJ3101	133m	20	0	5	2.0	500m	50	6.0	40	1.0	100m	25	200	10M	3.3		Δ	T066			
26	SPT3738	133m	20	0	5	3.0	1.0	250	6.0	225	500u	100	250m	50	100	10M	10		Δ	T066		
27	TRS2006	133m	20	0	5	1.0	500m	200	6.0	200	100u	100	50m	30	300	50M				T066		
28	TRS3006	133m	20	0	5	1.0	500m	300	6.0	300	100u	100	50m	30	300	50M				T066		
29	TRS4006	133m	20	0	5	1.0	500m	400	6.0	400	100u	100	50m	30	300	50M				T066		
30	TRS4006S	133m	20	0	5	1.0	500m	450	6.0	400	100u	100	50m	30	300	20M	200			T066		
31	TRS4016S	133m	20	0	5	1.0	500m	450	6.0	400	100u	100	50m	30	300	50M				T066		
32	TRS4506	133m	20	0	5	1.0	500m	450	6.0	450	100u	100	50m	30	300	50M				T066		
33	TRS5006	133m	20	0	5	1.0	500m	500	6.0	500	100u	100	20m	30	300	50M				T066		
34	TRS5006A	133m	20	0	5	1.0	550	4.0	550	200u	100	20m	20	30	20M	200				T066		
35	TRS6006	133m	20	0	5	1.0	500m	600	6.0	600	100u	100	20m	30	300	50M				T066		
36	TRS7006	133m	20	0	5	1.0	500m	700	6.0	700	100u	100	20m	30	300	50M				T066		
37	TRS8006	133m	20	0	5	1.0	500m	800	6.0	800	100u	100	20m	30	300	50M				T066		
38	XGSQ1530†	133m	10	0	5	2.0	1.0	350	7.0	300	10u	1.0	10	10	30M	300m	250n				T066	
39	XGSQ1535†	133m	10	0	5	2.0	1.0	400	7.0	350	10u	1.0	10	10	30M	300m	250n				T066	
40	XGSQ1540†	133m	10	0	5	2.0	1.0	450	7.0	400	10u	1.0	10	10	30M	300m	250n				T066	
41	2N3327	134m	20	0	5	2.0	200m	65	3.0	65	500u	100	500m	10	100	100M				T31		
42	2N122	140m	9.0	0	5	1.0	140m	120	1.0	100	100u	35	100m	3.0	100k	200				F34		
43#	2SC2441	140m	1.0	0	5	3.0	80m	160	5.0	160	1.0	5.0	10m	60	320	150M	700m		G	T0126		
44	2N1483	142m	25	0	5	3.0	1.5	60	12	40	15u	4.0	750m	20	60	1.2M	2.6		P	T08		
45	JAN2N1483	142m	1.7	0	5	3.0	1.5	60	12	40	15u	4.0	750m	20	60	600k			Δ	T08		
46	2N1484	142m	25	0	5	3.0	1.5	100	12	55	15u	4.0	750m	20	60	1.2M	2.6		D	T08		
47	JAN2N1484	142m	1.7	0	5	3.0	1.5	100	12	55	15u	4.0	750m	20	60	600k			Δ	T08		
48	2N1485	142m	25	0	5	3.0	1.5	60	12	40	15u	4.0	750m	35	100	1.2M	1.0		D	T08		
49	JAN2N1485	142m	1.7	0	5	3.0	1.5	60	12	40	15u	4.0	750m	35	100	600k			Δ	T08		
50	2N1486	142m	25	0	5	3.0	1.5	100	12	55	15u	4.0	750m	35	100	1.2M	1.0		D	T08		
51	JAN2N1486	142m	1.7	0	5	3.0	1.5	100	12	55	15u	4.0	750m	35	100	600k			Δ	T08		
52	2N2304	142m	25	0	5	3.0	1.5	60	6.0	40	100u	4.0	300m	20	80	1.0M	3.0		D	T08		
53	2N2308	142m	25	0	5	3.0	1.5	100	12	80	50u	4.0	1.0	20	60	1.0M	1.0		PL	T08		
54	2N2887	142m	25	0	5	1.2	400m	100	4.0	80	2.0	350m	15	80	1.0M	1.2				T39		
55	2N3054	142m	25	0	5	4.0	2.0	90	7.0	60	1.0m	4.0	500m	25	150	30k	2.0			F4e		
56	2N3142	142m	25	0	5	2.0	200m	65	1.0	65	100u	100	1.0	10	10	10M				T46		
57	2N3143	142m	25	0	5	2.0	200m	140	1.0	140	100u	100	1.0	10	10	10M				T46		
58	2N3144	142m	25	0	5	2.0	200m	65	1.0	65	100u	100	1.0	10	10	10M				T46		
59	2N3145	142m	25	0	5	2.0	200m	140	1.0	140	100u	100	1.0	10	10	10M				T46		
60	2N3226	142m	75	0	5	5.0	2.6	35	6.0	35	200u	3.0	2.0	20	50	30k	500m			T03		
61	2N3441	142m	25	0	5	3.0	2.0	160	7.0	140	100m	4.0	500m	25	100	2.2				T066		
62	JAN2N3441	142m	2.5	0	5	3.0	2.0	160	7.0	140	1.0m	4.0	500m	20	80	100	2.0			T066		
63	2N4910	142m	25	0	5	1.0	1.0	40	5.0	40	100u	1.0	500m	20	100	3.0M				T066		
64	2N4911	142m	25	0	5	1.0	1.0	60	5.0	60	100u	1.0	500m	20	100	3.0M				T066		
65	2N4912	142m	25	0	5	1.0	1.0	80	5.0	80	100u	1.0	500m	20	100	3.0M				T066		
66	2N5216	142m	25	0	5	1.5	400m	80	4.0	80	100u	5.0	500m	10	60	350M	800m			T62b		
67#	2SD761	142m	25	0	5	1.5	180	6.0	180	10u	5.0	300m	40	200	8.0M			PL	Y220a			
68	40368	142m	25	0	5	3.0	1.5	100	12	55	9.0u	4.0	750m	35	100	1.0				T08		
69	B5-8Z	142m	25	0	5	2.5	3.0	4.0	14	3.0	1.4				175M				W54			
70	B12-28	142m	25	0	5	2.5	3.0	4.0	35	3.0	1.4				175M				T91			
71#	BD226	142m	12	0	5	1.5	45	5.0	45	100n	2.0	150m	40	250	125M	800m		PE	T0126			
72#	BD228	142m	12	0	5	1.5	60	5.0	60	100n	2.0	150m	40	160	125M	800m		PE	T0126			
73#	BD230	142m	12	0	5	1.5	100	5.0	80	100n	2.0	150m	40	160	125M	800m		PE	T0126			
74#	BDY72	142m	25	0	5	3.0	2.0	150</														