

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 T A E X M P	ABSOLUTE MAX. RATINGS @ 25°C					MAX. I _{co} @ MAX V _{cb} @ 25°C		BIAS hFE		f _{ae} (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #	L C O D E			
						I _c (A)	I _b (A)	V _{cb} (V)	V _{eb} (V)	V _{ceo} (V)	I _{co} (A)	V _{cb} (V)	MIN	MAX									
1	2N1480	28m	5.0	∅	∅	1.5	1.0	100	12	100	10u∅	4.0∅	200m	20	60	1.5M†		D	T05	A∅			
2	JAN2N1480	28m	1.0	∅	∅	1.5	1.0	100	12	55	5.0u∅	4.0∅	200m	20	60	800k†Δ	3.8		T05	A∅			
3	2N1481	28m	5.0	∅	∅	1.5	1.0	60	12	60	10u∅†	4.0∅	200m	35	100	1.5M†		D	T05	A∅			
4	JAN2N1481	28m	1.0	∅	∅	1.5	1.0	60	12	40	5.0u∅	4.0∅	200m	35	100	800k†Δ	3.8		T05	A∅			
5	2N1482	28m	5.0	∅	∅	1.5	1.0	100	12	100	10u∅†	4.0∅	200m	35	100	1.5M†		D	T05	A∅			
6	JAN2N1482	28m	1.0	∅	∅	1.5	1.0	100	12	55	5.0u∅	4.0∅	200m	35	100	800k†Δ	3.8		T05	A∅			
7	2N1613A	28m	1.0	∅	∅	500m		75	50	7.0	2.0n∅	10∅	150m	40	120	60M‡Δ	150m#	Δ	T05	A∅			
8	2N1613B	28m	1.0	∅	∅	500m		120	7.0	50	2.0n∅	10∅	100u	20	60	60M‡Δ	1.3		T05	A∅			
9	2N1711A	28m	1.0	∅	∅	1.0		75	50	7.0	2.0m∅	10∅	150m	100	300	70M‡Δ	150m#	∅	T05	A∅			
10	2N1711B	28m	1.0	∅	∅	2.0		120	7.0	50	2.0n∅	10∅	100u	20	60	70M‡Δ	1.3		T05	A∅			
11	2N2017	28m	1.0	∅	∅	1.0		60	8.0	60	10u∅	10∅	200m	50	200		10		T05	A∅			
12	2N2102	28m	1.0	∅	∅	1.0		120	†	7.0†	65	2.0n∅†	10∅	150m	40	120	#	60M‡Δ	3.3	30n∅#	Δ	T05	A∅
13	2N2102A	28m	1.0	∅	∅	1.0		120	†	7.0†	65	2.0n∅†	10∅	150m	40	120	#	60M‡Δ	2.0	30n∅#	Δ	T05	A∅
14	2N2102S	28m	1.0	∅	∅	1.0		120	†	7.0†	65	2.0n∅†	10∅	150m	40	120	#	60M‡Δ	3.3	30n∅#	Δ	T039	A∅
15	2N2594	28m	1.0	∅	∅	1.0		80	7.0	80	100n∅	5.0∅	10	20			Δ	40M‡Δ	5.0			T05	A∅
16	2N2726	28m	1.0	∅	∅	500m	250m	200	10	200	1.0u∅†	10∅	200m	30	90	#	15M‡Δ					T05	A∅
17	2N2727	28m	1.0	∅	∅	500m	250m	200	10	200	1.0u∅†	10∅	200m	75	150	#	15M‡Δ					T05	A∅
18	2N3053	28m	5.0	∅	∅	700m		60	5.0	40	50n∅	1.0∅	150m	50	250	#	100M‡Δ					T05	A∅
19	2N3053A	28m	5.0	∅	∅	700m		80	7.0	60	50n∅	1.0∅	150m	25	250	#	100M‡Δ	2.0				T05	A∅
20	2N3053S	28m	5.0	∅	∅	700m		60	5.0	40	50n∅	1.0∅	150m	50	250	#	100M‡Δ					T039	A∅
21	2N3252†	28m	1.0	∅	∅	1.0		60	5.0	30	50n∅	1.0∅	500m	30	90	#	200M‡Δ					T039	A∅
22	2N3252S†	28m	1.0	∅	∅	1.0		60	5.0	30	50n∅	1.0∅	500m	30	90	#	200M‡Δ					T05	A∅
23	2N3253†	28m	1.0	∅	∅	1.0		75	5.0	40	50n∅	1.0∅	375m	25	75	#	175M‡Δ					T05	A∅
24	JAN2N3253†	28m	5.0	∅	∅	1.0		75	5.0	40	500n∅	1.0∅	500m	25	75	#	175M‡Δ	1.2				T05	A∅
25	2N3253S†	28m	1.0	∅	∅	1.0		75	5.0	40	50n∅	1.0∅	375m	25	75	#	175M‡Δ					T05	A∅
26	JAN2N3253S†	28m	5.0	∅	∅	1.0		75	5.0	40	500n∅	1.0∅	500m	25	75	#	30M‡Δ	2.0				T039	A∅
27	2N3309A*	28m	5.0	∅	∅	500m		60	4.0	60	500n∅	2.0∅	75m	5.0	100	#	30M‡Δ					T05	A∅
28	2N3374*	28m	5.0	∅	∅	500m	200m	80	4.0	80	50n∅	2.0∅	170m	10	10	#	230M‡Δ	2.0				T05	A∅
29	2N3439S	28m	1.0	∅	∅	1.0		450	†	7.0†	350	20u∅†	10∅	20	40	180	#	15M‡Δ	10			T039	A∅
30	2N3440S	28m	1.0	∅	∅	1.0		300	†	7.0†	250	20u∅†	10∅	20	40	180	#	15M‡Δ	10			T039	A∅
31	JAN2N3444†	28m	5.0	∅	∅	1.0		80	5.0	50	500n∅	1.0∅	500m	20	60	#	175M‡Δ	1.2				T05	A∅
32	JAN2N3444S†	28m	5.0	∅	∅	1.0		80	5.0	50	500n∅	1.0∅	500m	20	60	#	175M‡Δ	1.2				T05	A∅
33	2N3464	28m	5.0	∅	∅	5.0	2.0	60	5.0	40	100u∅	4.0∅	200m	35	100	#	30M‡Δ					T05	A∅
34	JAN2N3498†	28m	1.0	∅	∅	500m		100	6.0	100	50n∅	1.0∅	150m	40	120	#	150M‡Δ					T05	A∅
35	JAN2N3499†	28m	1.0	∅	∅	500m		100	6.0	100	50n∅	1.0∅	150m	40	120	#	150M‡Δ					T05	A∅
36	JAN2N3500†	28m	1.0	∅	∅	300m		150	6.0	150	50n∅	1.0∅	150m	40	120	#	150M‡Δ					T05	A∅
37	JAN2N3501†	28m	1.0	∅	∅	300m		150	6.0	150	50n∅	1.0∅	150m	100	300	#	150M‡Δ					T05	A∅
38	JAN2N3506†	28m	1.0	∅	∅	3.0		60	5.0	40	1.0u∅#	2.0∅	1.5	40	200	#	60M‡Δ					T05	A∅
39	JAN2N3507†	28m	1.0	∅	∅	3.0		60	5.0	40	1.0u∅#	2.0∅	1.5	40	200	#	60M‡Δ					T05	A∅
40	2N3664	28m	5.0	∅	∅	500m	100m	80	4.0	80	50n∅	2.0∅	50m	8.0	80	#	300M‡Δ	3.0				T30	A
41	2N3665	28m	5.0	∅	∅	1.0		120	8.0	80	50n∅	1.0∅	150m	40	120	#	60M‡Δ					T05	A∅
42	2N3666	28m	5.0	∅	∅	1.0		120	8.0	80	50n∅	1.0∅	150m	100	300	#	60M‡Δ					T05	A∅
43	2N3724A†	28m	1.0	∅	∅	1.2		80	6.0	30	500n∅	1.0∅	100m	60	150	#	300M‡Δ					T039	A∅
44	2N3725A†	28m	1.0	∅	∅	1.2		80	6.0	30	500n∅	1.0∅	100m	60	150	#	300M‡Δ					T039	A∅
45	2N3742	28m	1.0	∅	∅	50m		300	7.0	300	200n∅	1.0∅	30m	20	200	#	30M‡Δ	75				T05	A∅
46	2N3742S	28m	1.0	∅	∅	50m		300	7.0	300	200n∅	1.0∅	30m	20	200	#	30M‡Δ	75				T039	A
47	2N3866	28m	5.0	∅	∅	0.4	0.4	55	3.5	30	20uΔ	5.0∅	50m	10	200	#	500M‡Δ	10				T039	A
48	JAN2N3866	28m	1.0	∅	∅	400m		55	3.5	30	20uΔ	5.0∅	50m	15	200	#	800M‡Δ	10				T039	A
49	2N3866A	28m	5.0	∅	∅	400m		55	3.5	30	100u#	5.0∅	50m	25	200	#	800M‡Δ	10				T039	A
50	JAN2N3866A	28m	1.0	∅	∅	400m		80	3.5	30	20uΔ	5.0∅	50m	25	200	#	800M‡Δ	10				T039	A
51	2N3945	28m	5.0	∅	∅	1.0		70	8.0	50	100n∅	1.0∅	150m	40	150	#	60M‡Δ	3.3				T05	A
52	2N3948	28m	5.0	∅	∅	400m		38	3.5	20	100n∅	5.0∅	50m	15	200	#	700M‡Δ					T039	A
53	2N4924	28m	1.0	∅	∅	200m		100	5.0	100	100n∅	1.0∅	150m	40	200	#	100M‡Δ					T039	A
54	2N4925	28m	1.0	∅	∅	200m		150	5.0	150	100n∅	1.0∅	150m	40	200	#	100M‡Δ					T039	A
55	2N4926	28m	5.0	∅	∅	50m		200	7.0	200	100n∅	1.0∅	30m	20	200	#	30M‡Δ					T039	A
56	2N4927	28m	5.0	∅	∅	50m		250	7.0	250	100n∅	1.0∅	30m	20	200	#	30M‡Δ					T039	A
57	2N4976	28m	5.0	∅	∅	400m	150m	55	3.5	30	5.0m#	5.0∅	50m	20	250	#	1.0M‡Δ					T66	
58	JAN2N5109	28m	1.0	∅	∅	400m		40	3.0	20	20uΔ	15∅	50m	40	150	#	1.2G‡Δ					T039	A
59	2N5279	28m	1.0	∅	∅	1.0		400	7.0	300	20uΔ	10∅	20m	40	150	#	15M‡Δ					T05	A
60	2N5422	28m	5.0	∅	∅	500m		36	4.0	18	100u∅	5.0∅	500m	10	60	#	300M‡	1.0				T039	A
61	2N5481	28m	5.0	∅	∅	200m	50m	50	†	3.0†	30	2.0m	5.0∅	50m	20	250	#					T74	R
62	2N5527S	28m	5.0	∅	∅	5.0		60	3.0	40	1.0m	5.0∅	3.0	40	200	#	200M‡Δ	3.7				R179u	A
63	2N5531S	28m	5.0	∅	∅	5.0		90	3.0	75	1.0m	5.0∅	3.0	30	150	#	200M‡Δ	3.7				R179u	A
64	2N5535S	28m	5.0	∅	∅	20	8.0	60	3.0	50	1.0m	5.0∅	10	30	150	#	150M‡Δ	6.2				T061	A
65	2N5536S	28m	5.0	∅	∅	20	8.0	60	3.0	50	1.0m	5.0∅	10	30	150	#	150M‡Δ	6.2				T061	A
66	2N5537S	28m	5.0	∅	∅	20	8.0	90	3.0	75	1.0m	5.0∅	10	30	150	#	150M‡Δ	6.2				T061	