

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 (W)	MAX. I _c (A)	MAX. I _b (A)	ABSOLUTE MAX. RATINGS @ 25°C			MAX. I _{cb} @ MAX V _{cb} (A)	BIAS hFE			f _{ae} (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG #	L E O A D E	
							V _{cb} (V)	V _{be} (V)	V _{ceo} (V)		MIN (V)	MAX (V)	MIN (A)							MAX (A)
1#	BD843	82m	10	10	3.0	1.0	100	5.0	80	100n	2.0	150m	40	250	125M		EPL	T0202	B	
2#	2SC1124	83m	7.9	10	1.0	200m	140	6.0	140	1.0	2.0	100m	51	442	120M	700m	EM	B2	A	
3#	2SC1239	83m	12	10	1.5	1.0	80	4.5	40	100	1.0	100m	10		150M		PE	F19	A	
4#	2SC1728	83m	7.9	10	1.5	500m	100	6.0	50	200n	2.0	100m	98	849 *	80M	300m	ME	B2	A	
5#	2SC1760	83m	7.9	10	1.5	500m	100	6.0	50	200n	2.0	100m	98	849 *	80M	300m	ME	B2	A	
6#	2SC18101	83m	7.9	10	1.0	200m	700	12	300	500n	5.0	10m	30	300	13M	33	D	B2	C	
7#	2SD2361	83m	10	10	1.5	500m	40	7.0	30	100	4.0	500m	20	180	8.0MT	1.0	D	T066	C	
8#	2SD2371	83m	10	10	1.5	500m	80	7.0	50	100	4.0	500m	20	180	8.0MT	1.0	D	T066	C	
9#	2SD2381	83m	10	10	1.5	500m	110	7.0	80	100	4.0	500m	20	180	8.0MT	1.0	D	T066	C	
10#	KT919A	83m	10	10	700m		45			10m					1.3G			W94	E	
11#	KT919G	83m	10	10	700m		45			10m					1.3G			W94	E	
12#	NSD123	83m	1.7	10	500m		120	6.0	120	50n	10	150m	40	300	150M		PLT	Y202a	A	
13#	NSD131	83m	10	10	100m		250	7.0	250	100n	10	30m	60	90	50M		PLT	Y202a	A	
14#	NSD132	83m	10	10	100m		250	7.0	250	100n	10	30m	60	90	50M		PLT	Y202a	A	
15#	NSD133	83m	10	10	100m		300	7.0	300	100n	10	30m	60	90	50M		PLT	Y202a	A	
16#	NSD134	83m	10	10	100m		300	7.0	300	100n	10	30m	60	90	50M		PLT	Y202a	A	
17#	NSD135	83m	10	10	100m		375	7.0	375	100n	10	30m	60	90	50M		PLT	Y202a	A	
18#	NSD3439	83m	10	10	1.0	1.0	450	6.0	350	500n	1.0	20m	40	160	15M		PLT	Y202a	A	
19#	NSD3440	83m	10	10	1.0	1.0	300	6.0	250	500n	1.0	20m	40	160	15M		PLT	Y202a	A	
20#	NSD6178	83m	10	10	500m		100	5.0	75	500	2.0	500m	40	250	50M		PLT	Y202a	A	
21#	NSD6179	83m	10	10	500m		75	5.0	50	500	2.0	500m	40	250	50M		PLT	Y202a	A	
22#	NSDU01	83m	10	10	2.0		50	5.0	40	100n	1.0	10m	55	#	50M		PL	Y202a	A	
23#	NSDU01A	83m	10	10	2.0		50	5.0	40	100n	1.0	10m	55	#	50M		PL	Y202a	A	
24#	NSDU02	83m	10	10	2.0		60	4.0	40	100n	1.0	150m	50		50M		PL	Y202	GO	
25#	NSDU05	83m	10	10	2.0		80	4.0	80	100n	1.0	50m	80	#	50M		PL	Y202a	A	
26#	NSDU06	83m	10	10	2.0	500m	80	4.0	80	100n	1.0	250m	50		50M		PLT	Y202a	A	
27#	NSDU07	83m	10	10	2.0	500m	100	4.0	100	100n	1.0	250m	50		50M		PLT	Y202a	A	
28#	NSDU10	83m	10	10	2.0	1.0	300	8.0	300	200n	1.0	30m	40		60M		PLT	Y202a	A	
29#	NSE180	83m	10	10	3.0	500m	60	5.0	40	100n	1.0	100m	50	250	50M		PLT	Y202a	A	
30#	NSE181	83m	10	10	3.0	500m	80	5.0	60	100n	1.0	100m	50	250	50M		PLT	Y202a	A	
31#	2SC1762-11	84m	8.0	10	150m	200m	700	12	400	2.0	5.0	10m	30	300	13M	33	250n	DA	T05	A
32#	2SC1762-21	84m	8.0	10	150m	200m	850	12	450	2.0	5.0	10m	30	300	13M	33	250n	DA	T05	A
33#	2N5945	85m	15	10	800m		36	4.0	16	1.0	5.0	200m	20		1.0M			DA	T05	A
34#	2N5995	85m	10	10	1.5		36	3.5	14	2.5	5.0	200m	20		1.0M		PE	T78	R	
35#	40968	85m	10	10	1.5		36	3.5	14	5.0	5.0	200m	20		1.0M		PE	T72n	R	
36#	MRF818	85m	15	10	1.5		36	4.0	16	1.0	5.0	200m	20	150	900M			T90	R	
37#	MRF823	85m	15	10	1.5		36	4.0	16	1.0	5.0	200m	20	150	900M			W30	S	
38#	SD1220-1	85m	15	10	1.0	500m	65	4.0	35	1.0	5.0	100m	5.0		1.0		EPL	W52v	A	
39#	2N2306	86m	13	10	2.0		75	5.0	50	1.0	2.0	1.0	10	75				T08	A	
40#	2N4262	86m	15	10	200m		25	4.5	10	100n	1.0	30m	75		900M	15		T0102	A	
41#	2N4263	86m	15	10	200m		25	4.5	10	100n	1.0	30m	75		900M	15		T0102	A	
42#	2N5599	86m	15	10	600m		36	4.0	18	1.0	5.0	100m	5.0		200M			T71c	R	
43#	2N5636	86m	15	10	1.5		36	4.0	35	1.0	5.0	200m	5.0		450M			T71b	R	
44#	2N5641	86m	15	10	1.0		65	4.0	35	1.0	5.0	100m	5.0		300M			T71b	R	
45#	2SC2078	86m	10	10	3.0		80	5.0	75	1.0	5.0	500m	25	200	150M		PE	Y220b	D	
46#	2SD612	86m	10	10	2.0		25	5.0	25	1.0	2.0	500m	60	320	100M		PE	T0126	B	
47#	2SD612K	86m	10	10	2.0		25	5.0	35	1.0	2.0	500m	60	320	100M		PE	T0126	B	
48#	PT6007	86m	13	10	2.0		60	4.0	45	1.0	1.0	1.0	15	45	210M	2.0	PL	T08	A	
49#	SD1145	86m	15	10	800m		36	4.0	16	1.0	5.0	200m	20		1.0		PE	T90	R	
50#	SD1478	86m	15	10	1.7		36	4.0	16	1.0	5.0	0.2	20		1.0		EPL	T72n	R	
51#	2N1709	87m	2.0	10	2.0		75	4.0	30	100n	2.0	350m	7.5	75	150M	5.0		T08	A	
52#	2N1710	87m	2.0	10	2.0		60	3.0	30	50n	2.0	350m	4.0	100	150M	5.0		T08	A	
53#	2N5947	91m	16	10	400m		40	3.5	30	100n	2.0	75m	25	250	1.1G	1.7m		T81	R	
54#	2N5990	91m	13	10	1.2		36	4.0	18	1.0	10	500m	15	200	350M			W64	Y	
55#	2SC1168	96m	12	10	150m		300	5.0	300	100n	1.0	50m	100		100M		PL	T066	C	
56#	2SC1308	96m	12	10	3.0		65	4.0	65	1.0	10	500m	40	150	300M	600m	E	Y220b	D	
57#	2SC2020	96m	12	10	3.0		45	4.0	20	2.0	2.0	100m	30	150	270M	500m	E	Y220b	D	
58#	2SC2231	96m	12	10	200m	200m	200	5.0	180	100n	1.0	50m	100	#	320	#	D	Y202a	B	
59#	2SC2231A	96m	12	10	200m	200m	200	5.0	160	100n	1.0	50m	100	#	320	#	D	Y202a	B	
60#	GT200	96m	12	10	2.0		80	4.0	80	1.0	5.0	1.0	30	150	150M	500m	PE	Y220b	D	
61#	2N10721	100m	2.0	10	2.0	2.0	6.0	30	30	1.0	5.0	750m	20		2.6	100n	DA	T038	A	
62#	JAN2N10721	100m	2.0	10	2.0	2.0	75	6.0	75	5.0	750m	20		2.7	100n	1.0	DA	T037	A	
63#	2N20361	100m	10	10	1.0	1.0	80	10	60	150n	4.0	20	20	60	1.0M	500m		T037	A	
64#	2N22341	100m	10	10	500m	150m	40	6.0	20	10n	2.0	100m	15	60	50M	2.5	30n	T03	C	
65#	2N22351	100m	10	10	500m	150m	40	6.0	20	10n	2.0	100m	40	125	100M	2.5	25n	T03	C	
66#	2N2631	100m	8.8	10	1.5		80	4.0	60	100n	2.0	100m	40		200M		PL	T039	A	
67#	2N26971	100m	10	10	5.0	500m	80	8.0	60	100n	2.0	1.0	40	120	20M	80n		T9	B	
68#	2N26981	100m	10	10	5.0	500m	100	8.0	80	100n	2.0	1.0	40	120	20M	80n		T9	B	
69#	2N2781	100m	15	10	2.0		75	5.0	75	500n	2.0	350m	7.5	75	140M	5.0	PL	T08	A	
70#	2N2782	100m	15	10	2.0		100	5.0	100	500n	2.0	350m	7.5	75	140M	5.0	PL	T08	A	
71#	2N2783	100m	15	10	2.0		100	5.0	100	500n	2.0	350m	7.5	75	140M	5.0	PL	T08	A	
72#	2N2874	100m	15	10	2.0		75	4.0	75	100n	2.0	350m	7.5	75	140M	5.0	PL	T08	A	
73#	JAN2N2876	100m	18	10	2.5		80	4.0	60	100n	1.0	300m	30	150	150M	400m		T31	A	
74#	2N3229	100m	17	10	2.5		105	4.0	60	100n	1.0	2.5	5.0		150M	400m		T31	A	
75#	2N4040	100m	18	10	1.0	300m	60	4.0	40	200n	5.0	100m	10	80	400M	2.0		T0117	R	
76#	2N4041	100m	18	10	1.0	300m	60	4.0	40	200n	5.0	100m	10	80	400M	2.0		T0117	R	
77#	2N6408	100m	12	10	2.0	1.0	80	6.0	60	500n	2.0	100m	50	250	50M	1				