

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)	M A X E M P	ABSOLUTE MAX. RATINGS @ 25°C					MAX. Icbo @ MAX Vcb @ 25°C		BIAS hFE		f _{ae} (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG #/s/a TO200 Ser.	L C O D E		
						Ic (A)	Ib (A)	V _{cb0} (V)	V _{be0} (V)	V _{ceo} (V)	Icbo (A)	V _{cb} (V)	MIN	MAX								
1	2N6083	520m	65	5	SS	4.0		36	4.0	18	1.0m	5.0	1.0	5.0					Y220b	R		
2#	BD2431	520m	65	5	SJ	6.0	3.0		5.0	45	400u	4.0	300m	30	3.0MΔ	250m	300n	D	B1	D		
3#	BD243A1	520m	65	5	SJ	6.0	3.0		5.0	60	400u	4.0	300m	30	3.0MΔ	250m	300n	D	B1	D		
4#	BD243B1	520m	65	5	SJ	6.0	3.0		5.0	80	400u	4.0	300m	30	3.0MΔ	250m	300n	D	B1	D		
5#	BD243C1	520m	65	5	SJ	6.0	3.0		5.0	100	400u	4.0	300m	30	3.0MΔ	250m	300n	D	B1	D		
6	HEPS3060-RT	520m	65	5	SJ	6.0		100	5.0	100	500u	4.0	3.0	40	3.0MΔ				Y220b	X		
7	HEPS3061-RT	520m	65	5	SJ	6.0		60	5.0	60	500u	4.0	3.0	40	3.0MΔ				Y220b	X		
8	MRF222	520m	65	5	SS	4.0		36	4.0	18	1.0m	5.0	1.0	5.0					W52h	R		
9	MRF223	520m	65	5	SS	4.0		36	4.0	18	1.0m	5.0	1.0	5.0					W52h	R		
10	RCA411	520m	2.0		SJ	7.0	3.0		4.0	5.0	40	4.0	3.0	15	75 #	3.0MΔ	600n	Et	Y220b	X		
11	RCA41A1	520m	2.0		SJ	7.0	3.0		6.0	5.0	60	4.0	3.0	15	75 #	3.0MΔ	600n	Et	Y220b	X		
12	RCA41B1	520m	2.0		SJ	7.0	3.0		8.0	5.0	80	4.0	3.0	15	75 #	3.0MΔ	600n	Et	Y220b	X		
13	RCA41C1	520m	2.0		SJ	7.0	3.0		100	5.0	100	4.0	3.0	15	75 #	3.0MΔ	600n	Et	Y220b	X		
14	TIP411	520m	2.0		SJ	6.0	3.0		4.0	5.0	40	4.0	3.0	15	75 #	3.0MΔ	600n	DM	B1	X		
15	TIP411t	520m	2.0		SJ	7.0	3.0		4.0	5.0	40	4.0	3.0	15	150 #	3.0MΔ	333m	DM	Et	Y220b	X	
16	TIP41A1	520m	2.0		SJ	6.0	3.0		6.0	5.0	60	4.0	3.0	15	75 #	3.0MΔ	600n	DM	B1	X		
17	TIP41A1t	520m	2.0		SJ	7.0	3.0		6.0	5.0	60	4.0	3.0	15	150 #	3.0MΔ	333m	DM	Et	Y220b	X	
18	TIP41B1	520m	2.0		SJ	6.0	3.0		8.0	5.0	80	4.0	3.0	15	75 #	3.0MΔ	600n	DM	B1	X		
19	TIP41B1t	520m	2.0		SJ	7.0	3.0		8.0	5.0	80	4.0	3.0	15	150 #	3.0MΔ	333m	DM	Et	Y220b	X	
20	TIP41C1	520m	2.0		SJ	6.0	3.0		100	5.0	100	4.0	3.0	15	75 #	3.0MΔ	600n	DM	B1	X		
21	TIP41C1t	520m	2.0		SJ	7.0	3.0		100	5.0	100	4.0	3.0	15	150 #	3.0MΔ	333m	DM	Et	Y220b	X	
22	TIP751	520m	65	5	SJ	3.0	1.5	350	8.0	200	150u	5.0	500m	30	250 #	10MΔ	1.0	DM	Y220b	D		
23	TIP75A1	520m	65	5	SJ	3.0	1.5	400	8.0	250	150u	5.0	500m	30	250 #	10MΔ	1.0	DM	Y220b	D		
24	TIP75B1	520m	65	5	SJ	3.0	1.5	450	8.0	300	150u	5.0	500m	30	250 #	10MΔ	1.0	DM	Y220b	D		
25	TIP75C1	520m	65	5	SJ	3.0	1.5	500	8.0	400	150u	5.0	500m	30	250 #	10MΔ	1.0	DM	Y220b	D		
26#	2SC1051L	521m	80	5	SJ	7.0		100	6.0	80	1.0m	5.0	1.0	40	8.0M				TO3	C		
27	BD195	522m	65	5	SJ	6.0	2.5	40	5.0	30	100u	2.0	1.0	30	2.0MΔ	333m			B16g	B		
28	BD197	522m	65	5	SJ	6.0	2.5	55	5.0	45	100u	2.0	1.0	30	2.0MΔ	333m			B16g	B		
29	BD199	522m	65	5	SJ	6.0	2.5	70	5.0	60	100u	2.0	1.0	30	2.0MΔ	333m			B16h	B		
30	BD595	522m	65	5	SJ	8.0	3.0	45	5.0	45	100u	2.0	1.0	40	3.0MΔ	333m			B16h	D		
31	BD597	522m	65	5	SJ	8.0	3.0	60	5.0	60	100u	2.0	1.0	40	3.0MΔ	333m			B16h	D		
32	BD599	522m	65	5	SJ	8.0	3.0	80	5.0	80	100u	2.0	1.0	30	3.0MΔ	333m			B16h	D		
33	BD601	522m	65	5	SJ	8.0	3.0	100	5.0	100	100u	2.0	1.0	30	3.0MΔ	333m			B16h	D		
34	MJE205	522m	65	5	SJ	5.0	2.5	50	4.0	50	100u	2.0	2.0	25	100				B16d	B		
35	MJE205K	522m	65	5	SJ	5.0	2.5	50	4.0	50	100u	2.0	2.0	25	100				B23	D		
36#	BDW21	526m	90	5	SJ	10		45	5.0	45	100u	4.0	4.0	15	150	3.0MΔ	250m		TO3	C		
37#	BDW21A	526m	90	5	SJ	10		50	5.0	60	100u	4.0	4.0	15	150	3.0MΔ	250m		TO3	C		
38#	BDW21B	526m	90	5	SJ	10		80	5.0	80	100u	4.0	4.0	15	150	3.0MΔ	250m		TO3	C		
39#	BDW21C	526m	90	5	SJ	10		100	5.0	100	100u	4.0	4.0	15	150	3.0MΔ	250m		TO3	C		
40#	BU606	526m	90	5	SJ	7.0	4.0	400	6.0	200	5.0m	1.0	5.0	7.7	10M	200m	750n	PEΔ	TO3	C		
41#	BU606D	526m	90	5	SJ	7.0	4.0	400	6.0	200	5.0m	1.5	5.0	7.7	10M	300m	750n	PEΔ	TO3	C		
42#	BU607	526m	90	5	SJ	7.0	4.0	330	6.0	200	5.0m	1.0	4.0	8.0	10M	250m	750n	PEΔ	TO3	C		
43#	BU607D	526m	90	5	SJ	7.0	4.0	330	6.0	200	5.0m	1.0	4.0	8.0	10M	375m	750n	PEΔ	TO3	C		
44#	BU608	526m	90	5	SJ	7.0	4.0	400	6.0	200	5.0m	1.5	7.0	4.3	10M	214m	400n	PEΔ	TO3	C		
45#	BU608D	526m	90	5	SJ	7.0	4.0	400	6.0	200	5.0m	2.0	7.0	4.3	10M	285m	500n	PEΔ	TO3	C		
46	2N3551t	530m	12		SJ	12	5.0	115	7.0	60	2.0	10	20	90 #	40MΔ				W39a	A		
47	2N3552t	530m	12		SJ	12	5.0	147	7.0	80	2.0	10	20	90 #	40MΔ				W39a	A		
48	2N5862	533m	80	5	SS	8.0		65	4.0	35	2.0m	5.0	3.0	5.0					W52r	R		
49#	2SC1763	533m	80	5	SJ	7.0		65	4.0	35	3.0m	10	5.0	10	50MΔ	750m			PE	W52r	R	
50#	2SC2039	533m	80	5	SJ	8.0		70	4.0	38	1.0m	28	1.0	20	180 #	200M				F4u	C	
51#	2SC2292t	533m	80	5	SJ	8.0	4.0	500	7.0	400	100u	2.0	4.0	15	20	175m	700n			B57	D	
52#	2SC2503t	533m	80	5	SJ	8.0	4.0	500	7.0	400	100u	2.0	4.0	15	20	175m	700n			F5d	A	
53#	2SC2506t	533m	80	5	SJ	6.0	2.0	500	7.0	400	100u	2.0	3.0	15	20	230m	700n			T80	C	
54#	MM1553	533m	80	5	SJ	8.0		100	4.0	70	2.0m	5.0	2.0	15								
55	TIP65	533m	40	5	SJ	1.5	1.0		5.0	600	100	1.0	8.0		5.0	700n				B3	B	
56#	BUW44	55	175	5	SJ	15	10				500u	5	1.0	35		0.8u		EM	TO3	C		
57#	BUW45	55	175	5	SJ	15	10				500u	5	1.0	35		0.8u		EM	TO3	C		
58#	BUW46	55	175	5	SJ	15	10				500u	5	1.0	35		0.8u		EM	TO3	C		
59#	2SC2485	560m	70	5	SJ	6.0	3.0	100	5.0	80	5.0	1.0	40	200	15M				B38	D		
60#	2SC2825	560m	70	5	SJ	6.0	3.0	80	6.0	60	100u	4.0	1.0	500	3.0k	35M				B62	D	
61#	2SD557	560m	70	5	SJ	6.0		120	5.0	100	50u	5.0	1.0	40	200 #	10M	500m			B33	X	
62#	2SD587A	56	70	5	SJ	6.0		120	5.0	120	50u	5.0	1.0	40	200 #	17M				B66	X	
63#	2SD849	560m	70	5	TJ	3.0		1.5k	5.0	600	100u	10	3.0	4.0	12		0.9			TO3	C	
64#	2SD917	560m	70	5	SJ	7.0		330	6.0	200	4.0	5.0	10	45		0.7u				B38	D	
65#	2SD952	560m	70	5	SJ	3.0		1.5k	5.0	20	100u	10	3.0	4.0	12		13u			TO3	C	
66#	BD543	560m	70	5	SJ	8.0	3.0	40	5.0	40	400u	4.0	3.0	40		3.0MΔ	250m			B1	B	
67#	BD543A	560m	70	5	SJ	8.0	3.0	60	5.0	60	400u	4.0	3.0	40		3.0MΔ	250m			B1	B	
68#	BD543B	560m	70	5	SJ	8.0	3.0	80	5.0	80	400u	4.0	3.0	40		3.0MΔ	250m			B1	B	
69#	BD543C	560m	70	5	SJ	8.0	3.0	100	5.0	100	400u	4.0	3.0	40		3.0MΔ	250m			B1	B	
70#	BD543D	560m	70	5	SJ	8.0	3.0	120	5.0	120	400u	4.0	3.0	40		3.0MΔ	250m			B1	B	
71#	BU137	560m	70	5	SJ	12		1.0k	7.0	1.0k	1.0m					400m	1.0u			TO3	C	
72	BU157	560m	70	5	SJ	12		1.5k	7.0	1.5k	1.0m					833m	1.0u			TO3	C	
73	FT3055	560m			SJ	10	7.0	100	7.0		700u	4.0	4.0	20						Y220b	D	
74	SVT7533t	560m	125	5	SJ	8.0	2.0	500	3.0	200	500u	3.0	5.0	7.0	35 #	13MΔ	500n			Y204a	C	
75	SVT7534t	560m	125	5																		