

11. SILICON NPN - HIGH POWER TRANSISTORS

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

LINE No.	TYPE No.	1 MIN. DERATE J to C (W/C)	MAX FREE AIR @ 25°C (W)	M T A E X P	ABSOLUTE MAX. RATINGS @ 25°C					MAX. I _{CEO} @ 25°C (A)	hFE			f _{ae} (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG s/a TO200 Ser.	# L O A D E	
					I _C (A)	V _{CE} (V)	I _{BE} (A)	P _D (W)	V _{CE} (V)		I _{CE} (A)	MIN	MAX							
1	ST7530	400m	50	5	3.0	40	5.0	40	10m	10	50	20	80				D	T11		
2	ST1701	400m	50	5	1.0	250m	800	5.0	600	500m	5.0	150m	20	2.0M			PL	T03		
3	ST1801	400m	50	5	5.0	2.0	900	5.0	900	100m	5.0	150m	20	2.0M			PL	T03		
4	T1F542	400m	2.0	5	10	5.0	5.0	2.0	4.0	4.0	5.0	40	200	150M			PE	T059	A	
5	T1F543	400m	2.0	5	10	5.0	5.0	2.0	4.0	4.0	5.0	40	200	120M			PE	T059	A	
6	2N5178	401m	70	8	8.0	2.0	55	3.5	35	20m	5.0	200m	10	150	200M			F21	F	
7	2SC1435	410m	300	5	10	600	5.0	400	1.0m	5.0	10	30	300			DM	F27	C		
8	2N3018	416m	25	5	10	100	4.0	50	100m	5.0	1.0	60					T061	A		
9	2SD643*	416m	300	5	30	200	3.0	200	600u	5.0	30	150			750n	DM	F44	A		
10	2SD644*	416m	300	5	30	200	3.0	200	600u	5.0	30	150			1.5u	DM	F44	C		
11	BUW86	42	62	5	10	150	6.0	120	1.0m	2.0	1.0	35			200n	PE	T03	C		
12	JAN2N1487	424m	75	6	6.0	3.0	60	10	40	25u	4.0	15	45	500k			Δ	T03	C	
13	JAN2N1488	424m	75	6	6.0	3.0	100	10	55	25u	4.0	15	45	500k			Δ	T03	C	
14	JAN2N1489	424m	75	6	6.0	3.0	60	10	40	25u	4.0	15	25	75	500k			Δ	T03	C
15	JAN2N1490	424m	75	6	6.0	3.0	100	10	55	25u	4.0	15	25	75	500k			Δ	T03	C
16	2N2305	424m	75	6	6.0	3.0	60	10	40	200u	4.0	800m	15	60			D	T03	C	
17	40369	424m	75	6	6.0	3.0	100	10	55	10u	4.0	15	25	75	800m			T03	C	
18	2N1616A	425m	85	6	7.5	3.0	60	10	60	1.0n	4.0	20	20	60	500m			T061	A	
19	2N1617A	425m	85	6	7.5	3.0	60	10	70	1.0n	4.0	20	20	60	500m			T061	A	
20	2N1618A	425m	85	6	7.5	3.0	100	10	80	1.0n	4.0	20	20	60	500m			T061	A	
21	2N1702	425m	75	6	5.0	2.5	60	6.0	40	200u	4.0	800m	15	60	300k			F4	C	
22	2N1703	425m	75	6	5.0	2.5	60	6.0	40	200u	4.0	800m	15	60	300k			F4	C	
23	2N1511	428m	75	6	6.0	3.0	60	10	40	500u	4.0	15	15	45	300k			T036	C	
24	2N1512	428m	75	6	6.0	3.0	100	10	55	500u	4.0	15	15	45	300k			T036	C	
25	2N1513	428m	75	6	6.0	3.0	60	10	40	500u	4.0	15	25	75	300k			T036	C	
26	2N1514	428m	75	6	6.0	3.0	100	10	55	500u	4.0	15	25	75	300k			T036	C	
27	BUY70A	428m	75	6	10	3.0	1.0k	8.0	400	1.0m	10	15			6.0M			T03	C	
28	BUY70B	428m	75	6	10	3.0	800	8.0	325	1.0m	10	15			6.0M			T03	C	
29	BUY70C	428m	75	6	10	3.0	500	8.0	200	1.0m	10	15			6.0M			T03	C	
30	MRF216	428m	75	6	6.0	3.0	36	4.0	18	2.5m	5.0	1.0	5.0		175M			W65	S	
31	2N1487	429m	75	6	6.0	3.0	60	10	60	25u	4.0	15	15	45	1.0M			F4	C	
32	2N1488	429m	75	6	6.0	3.0	100	10	100	25u	4.0	15	15	45	1.0M			F4	C	
33	2N1489	429m	75	6	6.0	3.0	60	10	60	25u	4.0	15	25	75	1.0M			F4	C	
34	2N1490	429m	75	6	6.0	3.0	100	10	100	25u	4.0	15	25	75	1.0M			F4	C	
35	2N6456	429m	75	6	12	45	3.0	25	5.0u	5.0	4.0	10	80	60M				T111	R	
36	2N6458	429m	75	6	7.0	45	3.0	25	5.0u	5.0	2.0	10	80	75M				W52	R	
37	2N3054A	430m	75	6	4.0	2.0	90	7.0	60	1.0m	5.0	20	150	30k				F4e	C	
38	2N4231A	430m	75	6	3.0	1.0	40	5.0	40	50u	2.0	15	25	100	4.0M			T066	C	
39	2N4232A	430m	75	6	3.0	1.0	60	5.0	60	50u	2.0	15	25	100	4.0M			T066	C	
40	2N4233A	430m	75	6	3.0	1.0	80	5.0	80	50u	2.0	15	25	100	4.0M			T066	C	
41	MJ3248	430m	75	6	8.0	2.0			10u	150							NA	T066	C	
42	MJ4248	430m	75	6	8.0	2.0			10u	150							NA	T03	C	
43	MRF239	430m	75	6	6.0	3.0	36	4.0	16	5.0m	5.0	4.0	20	150				T93f	R	
44	2SC1512*	434m	65	5	5.0	3.0	50	4.0	25	3.0m	10	700m	15	200			E	W55b	C	
45	2SD621	434m	50	5	3.0	2.5k	6.0	900	50u	10	15	5.0			1.0u		E	T03	C	
46	BD301	440m	55	5	8.0	60	5.0	45	60	1.0m	2.0	3.0	30	30	3.0M	333m	E	Y220b	D	
47	BD303	440m	55	5	8.0	60	5.0	60	60	1.0m	2.0	3.0	30	120	3.0M	333m	E	Y230b	D	
48	2N2101	450m	75	6	3.0	3.0	60	10	40	30u	15	15	60	60			E	T10	A	
49	SVT7520†	450m	100	8	8.0	2.0	750	350	400	500u	3.0	3.0	10	#	13M	500n	E	Y204a	C	
50	SVT7521†	450m	100	8	8.0	2.0	800	400	500u	3.0	3.0	10	#	13M	500n	E	Y204a	C		
51	SVT7522†	450m	100	8	8.0	2.0	850	450	500u	3.0	3.0	10	#	13M	500n	E	Y204a	C		
52	SVT7523†	450m	100	8	8.0	2.0	450	350	500u	3.0	3.0	10	#	13M	500n	E	Y204a	C		
53	SVT7524†	450m	100	8	8.0	2.0	500	400	500u	3.0	3.0	10	#	13M	500n	E	Y204a	C		
54	SVT7525†	450m	100	8	8.0	2.0	550	450	500u	3.0	3.0	10	#	13M	500n	E	Y204a	C		
55	SVT7530†	450m	125	8	8.0	2.0	750	350	500u	3.0	5.0	7	#	35	13M	500n	E	Y204a	C	
56	SVT7531†	450m	125	8	8.0	2.0	800	400	500u	3.0	5.0	7	#	35	13M	500n	E	Y204a	C	
57	SVT7532†	450m	125	8	8.0	2.0	850	450	500u	3.0	5.0	7	#	35	13M	500n	E	Y204a	C	
58	2N2908	454m	45	5	5.0	2.0	80	10	80	15	1.0	12	20	10M	10		D	T03	C	
59	2SC1111†	454m	50	5	6.0	3.0	140	12	80	1.0	4.0	3.0	30	150	10M	500m	D	T03	C	
60	2SC1112†	454m	50	5	6.0	3.0	160	12	100	1.0	4.0	3.0	30	150	10M	500m	D	T03	C	
61	2SC1454	454m	50	5	4.0	1.0	300	6.0	250	1.0m	5.0	1.0	20	10M	2.5		D	T03	C	
62	2SC1618	454m	50	5	6.0	3.0	80	6.0	60	1.0m	4.0	3.0	20	180	10M		DM	T03	C	
63	2SC1619	454m	50	5	6.0	3.0	100	6.0	80	1.0m	4.0	3.0	20	180	10M		DM	T03	C	
64	2SC1619A	454m	50	5	6.0	3.0	120	6.0	100	1.0m	4.0	3.0	20		10M	500m	ME	T03	C	
65	C40-28	454m	80	6	4.0	3.0	4.0	33	33					400M				T91	R	
66	PT6944†	454m	80	6	6.0	3.0	120	8.0	70		5.0	3.0	40	200	100M	133m			T03	C
67	PT6945†	454m	80	6	6.0	3.0	160	8.0	100		5.0	3.0	40	200	100M	166m			T03	C
68	PT6946†	454m	80	6	6.0	3.0	200	8.0	140		5.0	3.0	30	150	100M	200m			T03	C
69	SD1224-10	454m	80	6	4.5	3.0	65	4.0	36	5.0m	5.0	1.0	10				EPL	T72n	C	
70	SD1285	454m	80	6	4.5	3.0	36													