11. SILICON NPN - HIGH POWER TRANSISTORS

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

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1	DTS425#	1.3	100 Ø	J	3.5	2.0		6.0	500	250u△	5.0Ø	1.0	30	90	2.5m△	800m			TO3	CØ
2	DTS431M†	1.3 ☑	125 Ø	§J	5.0	2.0	400	5.0	400	2.5m△	5.0Ø	2.5	15	35	2.5M§△	280m	800nØ☑	D△	Y204a	CØ
3	DTS3704	1.3		§J	2.0	.50	200	5.0	200 Ø		5.0Ø	.50	20	80	115k	1.6			TO41	
4	DTS3704A	1.3		§J	2.0	.50	300	5.0	300 Ø		5.0Ø	.50	20	80	115k	1.6			TO41	
5	DTS3704B	1.3		§J	2.0	.50	400	5.0	335 Ø		5.0Ø	.50	20	80	115k	1.6			TO41	
6	DTS3705	1.3			3.5		200	5.0	200	.50m		1.0	25	75	110k	.80			TO3	
7	DTS3705A	1.3			3.5		300	5.0	300	.50m		1.0	25	75	110k	.80			TO3	
8	DTS3705B	1.3			3.5		400	5.0	400	.50m		1.0	25	75	110k	.80			TO3	
9	DTS4065	1.3 §	100 Ø	§J	15	4.0		20	600	250u△	5.0Ø	3.0	500		8.0M§△			D△	Y204a	CØ
10	HEPS7006-RT	1.3	125 Ø	♦J	5.0		1.5k	5.0	750	1.0m§					7.5M§				TO3	CØ
11	MJ410	1.3 §	100 Ø	§J	5.0	2.0	200	5.0	200	250u△	5.0Ø	1.0	30	90	2.5M§△	800m			TO3	CØ
12	MJ411	1.3 §	100 Ø	§J	5.0	2.0	300	5.0	300	250u△	5.0Ø	1.0	30	90	2.5M§△	800m			TO3	CØ
13	MJ424	1.3 §	100 Ø	§J	5.0	2.0	700	6.0	350	250u△	5.0Ø	1.0	30	90	2.5M§△	800m			TO3	CØ
14	MJ425	1.3 §	100 Ø	§J	5.0	2.0	700	6.0	400	250u△	5.0Ø	1.0	30	90	2.5M§△	800m			TO3	CØ
15	SD1078	1.3	220	J▼	15		65	4.0	36	20m§	5.0Ø	5.0	10					EPL	W52w	
16	SDT402	1.3	100	§J	3.5	2.0		5.0	400	0.5m☑					2.0M△§		2.5u☑§	PL	TO3	A
17	SDT410†	1.3	125 Ø	§J	3.5	2.0	200	5.0	200	500u#	5.0Ø	1.0	30 #	90	4.0M§		250n	ME	TO3	CØ
18	SDT411†	1.3	100	§J	3.5	2.0	300	5.0	300	0.5m☑†	5.0Ø	1.0	30	90 #	2.0M△§		2.5u☑§	PL	TO3	A
19	SDT423†	1.3	100	§J	3.5	2.0	400	5.0	400	0.5 †☑	5.0Ø	1.0	30	90 #	2.5M△§		3.8u☑§	PL	TO3	A
20	SDT4241	1.3	100	§J	3.5	2.0	700	6.0	500	0.5 †☑	5.0Ø	1.0	30	90 #	2.5M△§		3.8u☑§	PL	TO3	A
21	SDT425†	1.3	100	§J	3.5	2.0	700	6.0	500	0.5 †☑	5.0Ø	1.0	30	90 #	2.5M△§		3.8u☑§	PL	TO3	A
22	SDT430†	1.3	125	§J	5.0	2.0	400	5.0	400	2.5m△	5.0Ø	2.5	15 #	45	2.5M§△		800nØ	PL	TO3	CØ
23	SDT431†	1.3	125	§J	5.0	2.0	400	5.0	400	2.5m△	5.0Ø	2.5	15 #	45	2.5M§△		800nØ	PL	TO3	CØ
24	SEN-T173†	1.3	250 Ø	§J	30	15	180	7.0		2.0mØ	4.0Ø	8.0	15 #			100m#	1.5u		TO3	CØ
25	SPC153-04	1.3	200 Ø	§J	7.5		65	25	40	10m#	4.0Ø	1.5	15			866m		D	TO61	
26	SPC153-06	1.3	200 Ø	§J	7.5		85	25	60	10m#	4.0Ø	1.5	15			866m		D	TO61	
27	SPC153-08	1.3	200 Ø	§J	7.5		105	25	80	10m#	4.0Ø	1.5	15			866m		D	TO61	
28	SPC153-10	1.3	200 Ø	§J	7.5	3.0	125	25	100	10m#	4.0Ø	1.5	15			866m		D	TO61	
29	SPC153-12	1.3	200 Ø	§J	7.5	3.0	145	25	120	10m#	4.0Ø	1.5	15			866m		D	TO61	
30	SPC153-14	1.3	200 Ø	§J	7.5	3.0	165	25	140	10m#	4.0Ø	1.5	15			866m		D	TO61	
31	SPC153-16	1.3	200 Ø	§J	7.5	3.0	185	25	160	10m#	4.0Ø	1.5	15			866m		D	TO61	
32	SPC153-18	1.3	200 Ø	§J	7.5	3.0	205	25	180	10m#	4.0Ø	1.5	15			866m		D	TO61	
33	SPC153-20	1.3	200 Ø	§J	7.5	3.0	225	25	200	10m#	4.0Ø	1.5	15			866m		D	TO61	
34	SPC153-22	1.3	200 Ø	§J	7.5	3.0	245	25	220	10m#	4.0Ø	1.5	15			866m		D	TO61	
35	SPC153-24	1.3	200 Ø	§J	7.5	3.0	265	25	240	10m#	4.0Ø	1.5	15			866m		D	TO61	
36	SPC153-26	1.3	200 Ø	§J	7.5	3.0	285	25	260	10m#	4.0Ø	1.5	15			866m		D	TO61	
37	SPC153-28	1.3	200 Ø	§J	7.5	3.0	305	25	280	10m#	4.0Ø	1.5	15			866m		D	TO61	
38	SPC153-30	1.3	200 Ø	§J	7.5	3.0	325	25	300	10m#	4.0Ø	1.5	15			866m		D	TO61	
39	SPC154-04	1.3	200 Ø	§J	7.5	3.0	65	25	40	10m#	4.0Ø	1.5	25			833m		D	TO61	
40	SPC154-06	1.3	200 Ø	§J	7.5	3.0	85	25	60	10m#	4.0Ø	1.5	25			833m		D	TO61	
41	SPC154-08	1.3	200 Ø	§J	7.5	3.0	105	25	80	10m#	4.0Ø	1.5	25			833m		D	TO61	
42	SPC154-10	1.3	200 Ø	§J	7.5	3.0	125	25	100	10m#	4.0Ø	1.5	25			833m		D	TO61	
43	SPC154-12	1.3	200 Ø	§J	7.5	3.0	145	25	120	10m#	4.0Ø	1.5	25			833m		D	TO61	
44	SPC154-14	1.3	200 Ø	§J	7.5	3.0	165	25	140	10m#	4.0Ø	1.5	25			833m		D	TO61	
45	SPC154-16	1.3	200 Ø	§J	7.5	3.0	185	25	160	10m#	4.0Ø	1.5	25			833m		D	TO61	
46	SPC154-18	1.3	200 Ø	§J	7.5	3.0	205	25	180	10m#	4.0Ø	1.5	25			833m		D	TO61	
47	SPC154-20	1.3	200 Ø	§J	7.5	3.0	225	25	200	10m#	4.0Ø	1.5	25			833m		D	TO61	
48	SPC154-22	1.3	200 Ø	§J	7.5	3.0	245	25	220	10m#	4.0Ø	1.5	25			833m		D	TO61	
49	SPC154-24	1.3	200 Ø	§J	7.5	3.0	265	25	240	10m#	4.0Ø	1.5	25			833m		D	TO61	
50	SPC154-26	1.3	200 Ø	§J	7.5	3.0	285	25	260	10m#	4.0Ø	1.5	25			833m		D	TO61	
51	SPC154-28	1.3	200 Ø	§J	7.5	3.0	305	25	280	10m#	4.0Ø	1.5	25			833m		D	TO61	
52	SPC154-30	1.3	200 Ø	§J	7.5	3.0	325	25	300	10m#	4.0Ø	1.5	25			833m		D	TO61	
53	SPC402	1.3	100 Ø	§J	3.5	2.0	400	5.0	325	500u△	5.0Ø	500m	20	100	4.0M	666m		D	TO3	
54	SPC410	1.3	80 Ø	§J	3.5	2.0	200	5.0	200	500u#†	5.0Ø	1.0	30	90	4.0M	160m		D	TO3	
55	SPC411	1.3	100 Ø	§J	3.5	2.0	300	5.0	300	500u#†	5.0Ø	1.0	30	90	5.0M	800m		D	TO3	
56	SPC423	1.3	100 Ø	§J	3.5	2.0	400	5.0	325	500 #†	500Ø	1.0	30	90	5.0M	800m		D	TO3	
57	SPC424	1.3	100 Ø	§J	3.5	2.0	500	6.0	350	250u△	5.0Ø	1.0	30	90	4.0M	800m		D	TO3	
58	SPC425	1.3	100 Ø	§J	3.5	2.0	500	6.0	400	250u△	5.0Ø	1.0	30	90	4.0M	800m		D	TO3	
59	STS103	1.3	125 Ø	§J	15	5.0	80	5.0	60	250u△	1.5Ø	5.0	20	55	4.0M§△	180m	550n	EM△	TO3	CØ
60	STS104	1.3	125 Ø	§J	15	5.0	80	5.0	60	250u△	1.5Ø	5.0	50	120	4.0M§△	150m	550n	EM△	TO3	CØ
61	STS105	1.3	125 Ø	§J	15	5.0	100	5.0	80	250u△	1.5Ø	5.0	20	55	4.0M§△	180m	550n	EM△	TO3	CØ
62	STS106	1.3	125 Ø	§J	15	5.0	110	5.0	90	250u△	1.5Ø	5.0	20	55	4.0M§△	180m	550n	EM△	TO3	CØ
63	STS107	1.3	125 Ø	§J	15	5.0	120	5.0	100	250u△	1.5Ø	5.0	20	55	4.0M§△	180m	550n	EM△	TO3	CØ
64	STS402	1.3	100 Ø	§J	3.5	2.0		5.0	400	500n△					4.0M§	667m	1.9u#	EM△	TO3	CØ
65	STS403	1.3	100 Ø	§J	3.5	2.0	400	5.0	400	250u△					2.5M§	571m	700n#☑	EM△	TO3	CØ
66	STS409	1.3	100	§J	3.5	2.0	400	5.0	400	350u△	5.0Ø	1.0	15		2.5M§	1.2		EM	TO3	CØ
67	STS410	1.3	80 Ø	§J	3.5	2.0	200	5.0	200	500u#†	5.0Ø	1.0	30	90	4.0M§	800m	300nØ	EM△	TO3	CØ
68	STS411	1.3	100 Ø	§J	3.5	2.0	300	5.0	300	500u#†	5.0Ø	1.0	30	90	5.0M§	800m	300nØ	EM△	TO3	CØ
69	STS423	1.3	100 Ø	§J	3.5	2.0	400	5.0	400	500u#†	5.0Ø	1.0	30	90	5.0M§	800m	300nØ	EM△	TO3	CØ
70	STS424	1.3	100 Ø	§J	3.5	2.0		5.0	500	250u△	5.0Ø	1.0	30	90	4.0M§	300m▼	300n	EM△	TO3	CØ
71	STS425	1.3	100 Ø	§J	3.5	2.0		5.0	500	250u△	5.0Ø	1.0	30	90	4.0M§	300m▼	300n	EM△	TO3	CØ
72	XGSR50020†	1.3 §	100 Ø	§J	50	10	250	8.0	200	500uØ	2.0Ø	20	15	50 #	30M§△	50m#	100nØ☑	DPL	TO3	CØ
73	2N1015†	1.4 *	150 Ø	§J	7.5	5.0		25	30	20m#†	4.0Ø	2.0	10		20k		6.0uØ		T1	
74	2N1015A†	1.4 *	150 Ø	§J	7.5	5.0		25	60	20m#†	4.0Ø	2.0	10		20k		6.0uØ		T1	
75	2N1015B†	1.4 *	150 Ø	§J	7.5	5.0		25	100	20m#†	4.0Ø	2.0	10		20k		6.0uØ		T1	
76	2N1015C†	1.4 *	150 Ø	§J	7.5	5.0		25	150	20m#†	4.0Ø	2.0	10		20k		6.0uØ		T1	
77	2N1015D†	1.4 *	150 Ø	§J	7.5	5.0		25	200	20m#†	4.0Ø	2.0	10		20k		6.0uØ		T1	
78	2N1015E†	1.4 *	150 Ø	§J	7.5	5.0		25	250	20m#†	4.0Ø	2.0	10		20k		6.0uØ		T1	
79	2N1015F†	1.4 *	150 Ø	§J	7.5	5.0		25	300	20m#†	4.0Ø	2.0	10		20k		6.0uØ		T1	
80	2N1016	1.4 *	150 Ø	§J	7.5	5.0		25	30	20m#†	4.0Ø	5.0	10		20k	500m	6.0u		T1	B
81	2N1016A	1.4 *	150 Ø	§J	7.5	5.0		25	60	20m#†	4.0Ø	5.0	10		20k	500m	6.0u		T1	B
82	2N1016B	1.4 *	150 Ø	§J	7.5	5.0		25	100	20m#†	4.0Ø	5.0	10		20k	500m	6.0u		T1	B
83	JAN2N1016B	1.4 *	150 Ø	§J	7.5		100	25	100	1.0m	4.0Ø	2.0	20	80	20k△	500m	10uØ	△	T1	BØ
84	2N1016C	1.4 *	150 Ø	§J	7.5	5.0		25	150	20m#†	4.0Ø	5.0	10		20k	500m	6.0u		T1	B
85	JAN2N1016C	1.4 *	150 Ø	§J	7.5		150	25	150	1.0m	4.0Ø	2.0	20	80	20k△	500m	10uØ	△	T1	BØ
86	2N1016D	1.4 *	150 Ø	§J	7.5	5.0		25	200	20m#†	4.0Ø	5.0	10		20k	500m	6.0u		T1	B
87	JAN2N1016D	1.4 *	150 Ø	§J	7.5		200	25	200	1.0m	4.0Ø	2.0	20	80	20k△	500m	10uØ	△	T1	BØ
88	2N1016E	1.4 *	150 Ø	§J	7.5	5.0		25	250	20m#†	4.0Ø	5.0	10		20k	500m	6.0u		T1	B
89	2N1016F	1.4 *	150 Ø	§J	7.5	5.0		25	300	20m#†	4.0Ø	5.0	10		20k	500m	6.0u		T1	R
90	2N2580†	1.4 *	150 Ø	§C	10	3.0	400	5.0	400	250u#♦	5.0Ø	10 Ø	5.0	20	30k△	500m	2.5u☑		TO36	CØ
91	2N2580M†	1.4	150 Ø	§J	10	3.0	400	5.0	400	5.0m	5.0Ø	5.0	10	40	2.0M§△	140m	1.5uØ	D	TO36	CØ
92	2N2581†	1.4 *	150 Ø	§C	10	3.0	400	5.0	400	250u#♦	5.0Ø	10 Ø	10	25	30k△	100m	2.5u☑		TO36	CØ
93	2N2582†	1.4 *	150 Ø	§C	10	3.0	500	5.0	500	250u#♦	5.0Ø	10 Ø	5.0	20	30k△	500m	2.5u☑		TO36	CØ
94	2N2583†	1.4 *	150 Ø	§C	10	3.0	500	5.0	500	250u#♦	5.0Ø	10 Ø	10	25	30k△	100m	2.5u☑		TO36	CØ
95	2N2584†	1.4 *	150 Ø	§A	5.0	1.0	600	5.0	600	5.0m#	5.0Ø	5.0	10	40	30k△	140m	6.0u☑		TO36	CØ
96	2N2585†	1.4 *	150 Ø	§A	10	2.0	600	5.0	600	5.0m#	5.0Ø	5.0	25	65	30k△	1.0	6.0u☑		TO36	CØ
97	2N3079†	1.4 *	150 Ø	§C	5.0	1.0	200	5.0	200	5.0m#	2.0Ø	5.0	7.0	40	30k△	140m			TO36	CØ
98	2N3080†	1.4 *	150 Ø	§C	5.0	1.0	300	5.0	300	5.0m#	2.0Ø	5.0	7.0	40	30k△	140m			TO36	CØ
99	2N5241†	1.4 ☑	125 Ø	§J	5.0	2.0	400	5.0	400	500u#	5.0Ø	2.5	15	35	2.5M§△	500m	800nØ☑		TO3	CØ
100	2N5560†	1.4 §	150 Ø	§J	30	10	175	8.0	120 #		2.0Ø	15	30	90	40M§△	50m	1.0uØ		TO63	AØ
101	2N6258	1.4	250 Ø	§J	30	7.5	100 †	7.0†	80	2.0m△♦	2.0Ø	15	20	60 #					TO3	CØ
102	2N6259	1.4	250 Ø	§J	16	4.0	170 †	7.0†	150	2.0m△♦	2.0Ø	8.0	15	60 #					TO3	CØ
103	2N6274†	1.4	250 Ø	§J	50	20	120 †	6.0†	100	10u#♦	4.0Ø	20	30	120 #	30M§△		350n☑		F11b	CØ
104	JAN2N6274†	1.4	250	§J	50	20	120	6.0	100	10u	4.0Ø	20	30	120	30M§△	60m#	500nØ☑		TO3	CØ
105	2N6275†	1.4	250 Ø	§J	50	20	140 †	6.0†	120	10u#♦	4.0Ø	20	30	120 #	30M§△		350n☑		F11b	CØ
106	2N6276†	1.4	250 Ø	§J	50	20	160 †	6.0†	140	10u#♦	4.0Ø	20	30	120 #	30M§△		350n☑		F11b	CØ
107	2N6277†	1.4	250 Ø	§J	50	20	180 †	6.0†	150	10u#♦	4.0Ø	20	30	120 #	30M§△		350n☑		F11b	CØ
108	JAN2N6277†	1.4	250	§J	50	20	180	6.0	150	10u	4.0Ø	20	30	120	30M§△	60m#	500nØ☑		TO3	CØ
109	2N6278†	1.4	250 Ø	§J	50	20	120 †	6.0†	100	10u#♦	4.0Ø	20	30	120 #	30M§△		350n☑		TO63	AØ
110	2N6279†	1.4	250 Ø	§J	50	20	140 †	6.0†	120	10u#♦	4.0Ø	20	30	120 #	30M§△		350n☑		TO63	AØ

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