

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)	MAX P C A X M P	ABSOLUTE MAX. RATINGS @ 25°C					MAX. I _{cb} @ 25°C		BIAS hFE			MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #	L C O D E	
					I _c (A)	I _b (A)	V _{bc} (V)	V _{be} (V)	V _{ceo} (V)	I _{cb} (A)	I _c (A)	MIN	MAX	f _{ae} (Hz)						
1	DTS425#	1.3	100	100	3.5	2.0	6.0	5.0	250uΔ	5.0	1.5	30	90	2.5mΔ	800m					
2	DTS431M†	1.3	125	125	3.5	2.0	4.0	5.0	2.5mΔ	5.0	2.0	15	35	2.5mΔ	280m	800n	Δ	Y203	CØ	
3	DTS3704	1.3			2.0	5.0	200	5.0	200	5.0	5.0	20	80	115k	1.6			Y204a	CØ	
4	DTS3704A	1.3			2.0	5.0	300	5.0	300	5.0	5.0	20	80	115k	1.6			Y204a	CØ	
5	DTS3704B	1.3			2.0	5.0	400	5.0	335	5.0	5.0	20	80	115k	1.6			Y204a	CØ	
6	DTS3705	1.3			3.5	2.0	200	5.0	200	5.0	1.0	25	75	110k	8.0			Y204a	CØ	
7	DTS3705A	1.3			3.5	2.0	300	5.0	300	5.0	1.0	25	75	110k	8.0			Y204a	CØ	
8	DTS3705B	1.3			3.5	2.0	400	5.0	400	5.0	1.0	25	75	110k	8.0			Y204a	CØ	
9	DTS4065	1.3	100	100	1.5	4.0	5.0	2.0	250uΔ	5.0	3.0	500		8.0mΔ			Δ	Y204a	CØ	
10	HEPS7006-RT	1.3	125	125	5.0	2.0	1.5k	5.0	750	1.0mΔ	1.0	30	90	2.5mΔ	800m			Y203	CØ	
11	MJ410	1.3	100	100	5.0	2.0	200	5.0	200	250uΔ	5.0	1.0	30	90	2.5mΔ	800m			Y203	CØ
12	MJ411	1.3	100	100	5.0	2.0	300	5.0	300	250uΔ	5.0	1.0	30	90	2.5mΔ	800m			Y203	CØ
13	MJ424	1.3	100	100	5.0	2.0	700	6.0	350	250uΔ	5.0	1.0	30	90	2.5mΔ	800m			Y203	CØ
14	MJ425	1.3	100	100	5.0	2.0	700	6.0	400	250uΔ	5.0	1.0	30	90	2.5mΔ	800m			Y203	CØ
15	SD1078	1.3	220	220	1.5	5.0	65	4.0	38	2.0mΔ	5.0	5.0	10	10			EPL	W52w	CØ	
16	SDT402	1.3	100	100	3.5	2.0	5.0	5.0	400	0.5mΔ	5.0	1.0	30	90	2.0mΔ	250m		PL	TO3	A
17	SDT401	1.3	125	125	3.5	2.0	5.0	5.0	200	500u#	5.0	1.0	30	90	4.0mΔ	250m		ME	TO3	A
18	SDT411	1.3	100	100	3.5	2.0	300	5.0	300	0.5mΔ	5.0	1.0	30	90	2.0mΔ	250m		PL	TO3	A
19	SDT423†	1.3	100	100	3.5	2.0	400	5.0	400	0.5	5.0	1.0	30	90	2.5mΔ	380u		PL	TO3	A
20	SDT424†	1.3	100	100	3.5	2.0	700	6.0	500	0.5	5.0	1.0	30	90	2.5mΔ	3.8u		PL	TO3	A
21	SDT425†	1.3	100	100	3.5	2.0	700	6.0	500	0.5	5.0	1.0	30	90	2.5mΔ	3.8u		PL	TO3	A
22	SDT430†	1.3	125	125	3.0	2.0	400	5.0	400	2.5mΔ	5.0	2.5	15	45	2.5mΔ	800n		PL	TO3	CØ
23	SDT431†	1.3	125	125	3.0	2.0	400	5.0	400	2.5mΔ	5.0	2.5	15	45	2.5mΔ	800n		PL	TO3	CØ
24	SDT431†	1.3	250	250	3.0	1.5	180	7.0	2.0	2.0mΔ	4.0	8.0	15	45	2.5mΔ	100m		PL	TO3	CØ
25	SPC153.04	1.3	200	200	7.5	3.0	65	2.5	40	10m#	4.0	1.5	15		866m		D	TO61	A	
26	SPC153.06	1.3	200	200	7.5	3.0	85	2.5	60	10m#	4.0	1.5	15		866m		D	TO61	A	
27	SPC153.08	1.3	200	200	7.5	3.0	105	2.5	80	10m#	4.0	1.5	15		866m		D	TO61	A	
28	SPC153.10	1.3	200	200	7.5	3.0	125	2.5	100	10m#	4.0	1.5	15		866m		D	TO61	A	
29	SPC153.12	1.3	200	200	7.5	3.0	145	2.5	120	10m#	4.0	1.5	15		866m		D	TO61	A	
30	SPC153.14	1.3	200	200	7.5	3.0	165	2.5	140	10m#	4.0	1.5	15		866m		D	TO61	A	
31	SPC153.16	1.3	200	200	7.5	3.0	185	2.5	160	10m#	4.0	1.5	15		866m		D	TO61	A	
32	SPC153.18	1.3	200	200	7.5	3.0	205	2.5	180	10m#	4.0	1.5	15		866m		D	TO61	A	
33	SPC153.20	1.3	200	200	7.5	3.0	225	2.5	200	10m#	4.0	1.5	15		866m		D	TO61	A	
34	SPC153.22	1.3	200	200	7.5	3.0	245	2.5	220	10m#	4.0	1.5	15		866m		D	TO61	A	
35	SPC153.24	1.3	200	200	7.5	3.0	265	2.5	240	10m#	4.0	1.5	15		866m		D	TO61	A	
36	SPC153.26	1.3	200	200	7.5	3.0	285	2.5	260	10m#	4.0	1.5	15		866m		D	TO61	A	
37	SPC153.28	1.3	200	200	7.5	3.0	305	2.5	280	10m#	4.0	1.5	15		866m		D	TO61	A	
38	SPC153.30	1.3	200	200	7.5	3.0	325	2.5	300	10m#	4.0	1.5	15		866m		D	TO61	A	
39	SPC154.04	1.3	200	200	7.5	3.0	65	2.5	40	10m#	4.0	1.5	25		833m		D	TO61	A	
40	SPC154.06	1.3	200	200	7.5	3.0	85	2.5	60	10m#	4.0	1.5	25		833m		D	TO61	A	
41	SPC154.08	1.3	200	200	7.5	3.0	105	2.5	80	10m#	4.0	1.5	25		833m		D	TO61	A	
42	SPC154.10	1.3	200	200	7.5	3.0	125	2.5	100	10m#	4.0	1.5	25		833m		D	TO61	A	
43	SPC154.12	1.3	200	200	7.5	3.0	145	2.5	120	10m#	4.0	1.5	25		833m		D	TO61	A	
44	SPC154.14	1.3	200	200	7.5	3.0	165	2.5	140	10m#	4.0	1.5	25		833m		D	TO61	A	
45	SPC154.16	1.3	200	200	7.5	3.0	185	2.5	160	10m#	4.0	1.5	25		833m		D	TO61	A	
46	SPC154.18	1.3	200	200	7.5	3.0	205	2.5	180	10m#	4.0	1.5	25		833m		D	TO61	A	
47	SPC154.20	1.3	200	200	7.5	3.0	225	2.5	200	10m#	4.0	1.5	25		833m		D	TO61	A	
48	SPC154.22	1.3	200	200	7.5	3.0	245	2.5	220	10m#	4.0	1.5	25		833m		D	TO61	A	
49	SPC154.24	1.3	200	200	7.5	3.0	265	2.5	240	10m#	4.0	1.5	25		833m		D	TO61	A	
50	SPC154.26	1.3	200	200	7.5	3.0	285	2.5	260	10m#	4.0	1.5	25		833m		D	TO61	A	
51	SPC154.28	1.3	200	200	7.5	3.0	305	2.5	280	10m#	4.0	1.5	25		833m		D	TO61	A	
52	SPC154.30	1.3	200	200	7.5	3.0	325	2.5	300	10m#	4.0	1.5	25		833m		D	TO61	A	
53	SPC402	1.3	100	100	3.5	2.0	400	5.0	325	500uΔ	5.0	500m	20	100	4.0M	666m		D	TO3	A
54	SPC410	1.3	80	80	3.5	2.0	200	5.0	200	500u#†	5.0	1.0	30	90	4.0M	160m		D	TO3	A
55	SPC411	1.3	100	100	3.5	2.0	300	5.0	300	500u#†	5.0	1.0	30	90	5.0M	800m		D	TO3	A
56	SPC423	1.3	100	100	3.5	2.0	400	5.0	325	500 #†	500	1.0	30	90	5.0M	800m		D	TO3	A
57	SPC424	1.3	100	100	3.5	2.0	500	6.0	350	250uΔ	5.0	1.0	30	90	4.0M	800m		D	TO3	A
58	SPC425	1.3	100	100	3.5	2.0	500	6.0	400	250uΔ	5.0	1.0	30	90	4.0M	800m		D	TO3	A
59	STS103	1.3	125	125	1.5	5.0	80	5.0	60	250uΔ	1.5	5.0	20	55	4.0MΔ	180m	550n	EMΔ	TO3	CØ
60	STS104	1.3	125	125	1.5	5.0	80	5.0	60	250uΔ	1.5	5.0	20	55	4.0MΔ	150m	550n	EMΔ	TO3	CØ
61	STS105	1.3	125	125	1.5	5.0	100	5.0	80	250uΔ	1.5	5.0	20	55	4.0MΔ	180m	550n	EMΔ	TO3	CØ
62	STS106	1.3	125	125	1.5	5.0	110	5.0	90	250uΔ	1.5	5.0	20	55	4.0MΔ	180m	550n	EMΔ	TO3	CØ
63	STS107	1.3	125	125	1.5	5.0	120	5.0	100	250uΔ	1.5	5.0	20	55	4.0MΔ	180m	550n	EMΔ	TO3	CØ
64	STS402	1.3	100	100	3.5	2.0	400	5.0	400	500nΔ	4.0	1.5	25		667m	1.9u#	EMΔ	TO3	CØ	
65	STS403	1.3	100	100	3.5	2.0	400	5.0	400	250uΔ	5.0	1.0	15		571m	700n#	EMΔ	TO3	CØ	
66	STS409	1.3	100	10																