

10. SILICON PNP - 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	M	T	ABSOLUTE MAX. RATINGS @ 25°C					MAX. Vcb @ 25°C		BIAS		MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	L C O A D E	
							Ic (A)	Ib (A)	IVcbo (V)	IVebo (V)	IVceo (V)	Icbo @ MAX Vcb (A)	Vcb (V)	Ic (A)	MIN (V)									MAX (A)
1#	2SA1144	80m	10	∅	∅	∅	50m	5m	150	5	150	100n	2.0	10m	80	240	200m				E	B7	B	
2#	2SA1217	80m	10	∅	∅	∅	30	300m	40	5.0	40	100n	2.0	500m	80	240				E	B41	B		
3#	2SB523	80m	10	∅	∅	∅	2.0		40	5.0	20	1.0	4.0	500m	55 #	300 #	70M			PE1				
4#	2SB524	80m	10	∅	∅	∅	1.5		60	5.0	40	1.0	4.0	500m	55 #	300 #	70M			PE1				
5#	2SB526	80m	10	∅	∅	∅	800m		90	5.0	80	1.0	4.0	300m	55 #	300 #	70M			PE1				
6#	2SB527	80m	10	∅	∅	∅	800m		110	5.0	100	1.0	4.0	300m	55 #	300 #	70M			PE1				
7#	2SB528	80m	10	∅	∅	∅	800m		130	5.0	120	1.0	4.0	300m	55 #	300 #	70M			PE1				
8#	2SB529	80m	10	∅	∅	∅	2.0		40	5.0	20	1.0	4.0	500m	55 #	300 #	70M			PE1				
9#	2SB548	80m	10	∅	∅	∅	800m		100	5.0	80	1.0	5.0	200m	40	320 #	80M	4.0 #		PE1		TO126	B	
10#	2SB549	80m	10	∅	∅	∅	800m		100	5.0	100	1.0	5.0	200m	40	320 #	80M	4.0 #		E		TO126	B	
11#	2SB622	80m	10	∅	∅	∅	300m		400	6.0	400	100u	4.0	50m	30	200 #				DM		TO5	B	
12#	2SB731	80m	10	∅	∅	∅	1.0	500m	60	6.0	60	100n	2.0	100m	135	600 #	75M			E		B7a	B	
13#	2SB744	∅	10	∅	∅	∅	-3		-70	-5	-45	-1u	-5	60 #	320 #	45M			E			B16m	B	
14#	2SB744A	∅	10	∅	∅	∅	-3		-70	-5	-60	-1u	-5	60 #	320 #	45M			E			B16m	B	
15#	2SB772	∅	10	∅	∅	∅	-3		-70	-5	-30	-1u	-1	60 #	400 #	80M			E			B16m	B	
16#	BD506-1	80m	1.0	∅	∅	∅	2.0		30	5.0	20	100n	2.0	1.0	40	90 #	180M	700m #		AN		B18b	A	
17#	BD506-1	80m	1.0	∅	∅	∅	2.0		30	5.0	20	100n	2.0	1.0	40	90 #	180M	700m #		AN		B18b	A	
18#	BD506-5	80m	1.0	∅	∅	∅	2.0		30	5.0	20	100n	2.0	1.0	40	90 #	180M	700m #		AN		B18c	A	
19#	BD508	80m	1.0	∅	∅	∅	2.0		40	5.0	20	100n	2.0	1.0	40	90 #	180M	700m #		AN		B18b	A	
20#	BD508-1	80m	1.0	∅	∅	∅	2.0		40	5.0	30	100n	2.0	1.0	40	90 #	180M	700m #		AN		B18d	A	
21#	BD508-5	80m	1.0	∅	∅	∅	2.0		40	5.0	30	100n	2.0	1.0	40	90 #	180M	700m #		AN		B18c	A	
22#	BD510	80m	1.0	∅	∅	∅	2.0		50	5.0	40	100n	2.0	1.0	40	90 #	180M	700m #		AN		B18b	A	
23#	BD510-1	80m	1.0	∅	∅	∅	2.0		50	5.0	40	100n	2.0	1.0	40	90 #	180M	700m #		AN		B18d	A	
24#	BD510-5	80m	1.0	∅	∅	∅	2.0		50	5.0	40	100n	2.0	1.0	40	90 #	180M	700m #		AN		B18c	A	
25#	BD526	80m	1.0	∅	∅	∅	2.0		60	4.0	60	100n	2.0	50m	60	153 #	100M	2.0 #		AN		B18b	A	
26#	BD526-1	80m	1.0	∅	∅	∅	2.0		60	4.0	60	100n	2.0	50m	60	153 #	100M	2.0 #		AN		B18d	A	
27#	BD526-5	80m	1.0	∅	∅	∅	2.0		60	4.0	60	100n	2.0	50m	60	153 #	100M	2.0 #		AN		B18c	A	
28#	BD528	80m	1.0	∅	∅	∅	2.0		80	4.0	80	100n	2.0	50m	60	153 #	100M	2.0 #		AN		B18b	A	
29#	BD528-1	80m	1.0	∅	∅	∅	2.0		80	4.0	80	100n	2.0	50m	60	153 #	100M	2.0 #		AN		B18d	A	
30#	BD528-5	80m	1.0	∅	∅	∅	2.0		80	4.0	80	100n	2.0	50m	60	153 #	100M	2.0 #		AN		B18c	A	
31#	BD530	80m	1.0	∅	∅	∅	2.0		100	4.0	100	100n	2.0	50m	60	153 #	100M	2.0 #		AN		B18b	A	
32#	BD530-1	80m	1.0	∅	∅	∅	2.0		100	4.0	100	100n	2.0	50m	60	153 #	100M	2.0 #		AN		B18d	A	
33#	BD530-5	80m	1.0	∅	∅	∅	2.0		100	4.0	100	100n	2.0	50m	60	153 #	100M	2.0 #		AN		B18c	A	
34#	BF616	80m	2.0	∅	∅	∅	300m #		250	5.0	250	50n	15	25m	30		70M			PE		Y202b	B	
35#	BF618	80m	2.0	∅	∅	∅	300m #		300	5.0	300	50n	15	25m	30		70M			PE		Y202b	B	
36#	HEPS3032-RT	80m	10	∅	∅	∅	2.0		100	4.0	100	100n	∅	50m	140	∅	100M					B18	A	
37#	HEPS3050-RT	80m	10	∅	∅	∅	1.0		60	5.0	60	100n	∅	50m	150	∅	150M					B42	P	
38#	MD576	80m	10	∅	∅	∅	3.0	1.0	60	7.0	40	100n	1.0	200m	40	200	50M	1.5		AN		Y202c	X	
39#	MD577	80m	10	∅	∅	∅	3.0	1.0	80	7.0	60	100n	1.0	200m	40	200	50M	1.5		AN		Y202c	X	
40#	MPSU55	80m	1.0	∅	∅	∅	2.0		60	4.0	60	100n	1.0	50m	80	160	∅	100M			AN		B18	A
41#	MPSU56	80m	1.0	∅	∅	∅	2.0		80	4.0	80	100n	1.0	50m	80	160	∅	100M			AN		B18	A
42#	MPSU57	80m	1.0	∅	∅	∅	2.0		100	4.0	100	100n	1.0	50m	60	140	∅	100M	2.0		AN		B18	A
43#	MPSU60	80m	1.0	∅	∅	∅	500m		300	5.0	300	200n	1.0	1.0m	25		60M	37			AN		B18	A
44#	MPSU95	80m	1.0	∅	∅	∅	2.0		50	12	40	100n	5.0	200m	25k	150k	320M	1.5				B18	A	
45#	NPC634	80m	10	∅	∅	∅	2.0		40	5.0	30	100u	5.0	1.0	40	250	∅	60M		E		Y202a	D	
46#	NPC636	80m	10	∅	∅	∅	1.0		70	5.0	45	100u	5.0	500m	40	250	∅	50M		E		Y202a	D	
47#	NSD202	80m	10	∅	∅	∅	1.5		60	5.0	45	100n	5.0	100m	50	150	∅	60M	∅	PLT		Y202a	A	
48#	NSD203	80m	10	∅	∅	∅	1.5		60	5.0	45	100n	5.0	100m	120	350	∅	60M	∅	PLT		Y202a	A	
49#	NSD204	80m	10	∅	∅	∅	1.0		100	7.0	80	100n	5.0	100m	50	150	∅	60M	∅	PLT		Y202a	A	
50#	NSD205	80m	10	∅	∅	∅	1.0		100	7.0	80	100n	5.0	100m	120	350	∅	60M	∅	PLT		Y202a	A	
51#	NSD206	80m	10	∅	∅	∅	1.0		140	7.0	100	100n	5.0	100m	50	150	∅	60M	∅	PLT		Y202a	A	
52#	NSDU52	80m	10	∅	∅	∅	2.0		40	5.0	30	100n	1.0	10m	55		50M			PL		Y202a	A	
53#	NSDU56	80m	10	∅	∅	∅	2.0		80	4.0	80	100n	1.0	250m	50		50M	∅	PL		Y202a	A		
54#	NSDU57	80m	10	∅	∅	∅	2.0		100	4.0	100	100n	1.0	250m	50		50M	∅	PL		Y202a	A		
55#	PM10PNP	80m	10	∅	∅	∅	3.0		30	5.0	30	100n	1.0	500m	120	240	∅	150M	400m #	*		B26a	D	
56#	TIS141	80m	1.5	∅	∅	∅	1.5	150m	70	5.0	60	50n	∅	10	150m	100	300	∅	150M	2.0 #			B28	A
57#	TIS142	80m	1.5	∅	∅	∅	1.5	150m	80	5.0	75	50n	∅	10	150m	40	120	∅	150M	2.6 #			B28	A
58#	TIS177	80m	1.5	∅	∅	∅	100mt	50m	300	5.0	300	100n	∅	10	20m	40	160	∅	85M	50 #			Y202b	A
59#	TIS178	80m	1.5	∅	∅	∅	100mt	50m	200	5.0	200	100n	∅	10	20m	60	240	∅	100M	25 #			Y202b	A
60#	2SA706-2	83m	7.9	∅	∅	∅	1.0	200m	60	6.0	60	1.0	2.0	100m	51	138	∅	120M	1.0		E1		B2	A
61#	2SA706-3	83m	7.9	∅	∅	∅	1.0	200m	80	6.0	80	1.0	2.0	100m	102	276	∅	120M	1.0		E1		B2	A
62#	2SA706-4	83m	7.9	∅	∅	∅	1.0	200m	100	6.0	100	1.0	2.0	100m	204	442	∅	120M	1.0		E1		B2	A
63#	NSD6180	83m	10	∅	∅	∅	2.0	500m	100	5.0	75	500u	2.0	500m	40	250	∅	50M		PLT		Y202a	A	
64#	NSD6181	83m	10	∅	∅	∅	2.0	500m	75	5.0	50	500u	2.0	500m	40	250	∅	50M		PLT		Y202a	A	
65#	NSDU51	83m	10	∅	∅	∅	2.0		40	5.0	30	100n	1.0	10m	55	#	50M	∅	PL		Y202a	A		
66#	NSDU51A	83m	10	∅	∅	∅	2.0		50	5.0	40	100n	1.0	10m	55	#	50M	∅	PL		Y202a	A		
67#	NSDU55	83m	10	∅	∅	∅	2.0		60	5.0	60	100n	1.0	50m	80	#								