

# 8. GERMANIUM 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)	M A E X M P	ABSOLUTE MAX. RATINGS @ 25°C					MAX. hFE		f <sub>ae</sub> (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG Y200 s/a TO200 Ser.	L C O A D E
					I <sub>c</sub> (A)	I <sub>b</sub> (A)	V <sub>cb0</sub> (V)	V <sub>eb0</sub> (V)	V <sub>ce0</sub> (V)	I <sub>cb0</sub> @ 25°C (A)	V <sub>cb</sub> (V)						
1	2N2668	200m	15	#C	3.0	1.0	50	20	50	600u#	50	500m	50	150		T27	A
2	2N2669	200m	15	#C	3.0	1.0	70	20	70	600u#	50	500m	50	150		T27	A
3	2N2670	200m	15	#C	3.0	1.0	90	20	90	600u#	50	500m	50	150		T27	A
4#	2SB474	200m	12	#J	2.0		35	6.0	35	200u	1.5	200m	50	275	700k	F5c	A
5#	AD136	200m	11	#J	1.0	2.0	40	10	22	50	5.0	30	100	300k	T08	A	
6	ADY10	200m	17	#J			32	16	30	30	50m	40	70	350k	T08	A	
7	ADY11	200m	17	#J	600m		60	16	45	30	50m	30	50	350k	T08	A	
8	ADY12	200m	17	#J	600m		32	16	30	30	50m	60	100	350k	T08	A	
9	ADY13	200m	17	#J	600m		60	16	45	30	50m	40	70	350k	T08	A	
10	ADY20	200m	17	#J	600m		60	16	45	30	50m	60	100	350k	T08	A	
11#	AUY18	200m*	9.0	#J	8.0		64	20	45	5.0	5.0	30	100	300k	T08	A	
12	PTC194	200m	12	#J	2.0		35	6.0	35	250u	1.5	200m	100	700k	F5c	A	
13#	2SB627	217m	13	#J	10		40	14	12	0.0	2.0	80	#		T08	A	
14	355	222m	13	#J	1.5	1.0	35	35	20	1.0m	1.0						
15#	AD162	222m	6.0	#J	3.0	100m	32	10	20	200u	1.0	50m	74	300	1.5M	F9b	C
16	2N2835	250m	16	#J	1.0	2.0	32	10	32	0.0	1.0	30					
17#	AD148	250m*	11	#J	3.5	400m	32	10	26	1.0	1.0	30	100	450k	F12	A	
18#	AD262	250m	10	#J	4.0		35	10	20	2.0	1.5	30		325	F9a	A	
19#	AD263	250m	10	#J	4.0	2.0	60	10	40	100u	2.0	1.5	20	325	F9a	A	
20#	AL112	250m	10	#J	6.0	1.0	130	2.0	60	10m	2.0	500m	200	200	3.0M	T03	C
21#	AL113	250m	10	#J	6.0	1.0	100	1.5	40	10m	2.0	500m	200	200	3.0M	T03	C
22	2N1042-2Δ	263m	1.0	#J	3.0	1.0	40	20	30	650u	1.0	3.0	20	60	7.0k	T28	A
23	HEPG6011-RT	266m	20	#J	3.0		60	20	40	200u	1.0	40	40	200k	T05	A	
24	HEPG6012-RT	266m	20	#J	3.0		100	20	30	200u	1.0	40	40	200k	T05	A	
25	2N1038	267m	20	#C	3.0	1.0	40	20	40	125u	1.0	1.0	20	60	2.2M	R122	A
26	2N1039	267m	20	#C	3.0	1.0	60	20	60	125u	1.0	1.0	20	60	2.2M	R122	A
27	2N1040	267m	20	#C	3.0	1.0	80	20	80	125u	1.0	1.0	20	60	2.2M	R122	A
28	2N1041	267m	20	#C	3.0	1.0	100	20	100	125u	1.0	1.0	20	60	2.2M	R122	A
29	2N1042	267m	20	#C	3.5	1.0	40	20	40	125u	1.0	3.0	20	60	250k	T6	A
30	JAN2N1042	267m	20	#C	3.0		40	20	30	125u	1.0	3.0	20	60	250k	T28	A
31	2N1043	267m	20	#C	3.5	1.0	60	20	60	125u	1.0	3.0	20	60	250k	T6	A
32	JAN2N1043	267m	20	#C	3.0		60	20	40	125u	1.0	3.0	20	60	250k	T28	A
33	2N1044	267m	20	#C	3.5	1.0	80	20	80	125u	1.0	3.0	20	60	250k	T6	A
34	JAN2N1044	267m	20	#C	3.0		80	20	50	125u	1.0	3.0	20	60	250k	T28	A
35	2N1045	267m	20	#C	3.5	1.0	100	20	100	125u	1.0	3.0	20	60	250k	T6	A
36	JAN2N1045	267m	20	#C	3.0		100	20	60	125u	1.0	3.0	20	60	250k	T28	A
37	2N2552	267m	20	#C	3.0	1.0	40	20	30	125u	1.0	1.0	20	60	250m	T27	A
38	2N2553	267m	20	#C	3.0	1.0	60	20	40	125u	1.0	1.0	20	60	250m	T27	A
39	2N2554	267m	20	#C	3.0	1.0	80	20	50	125u	1.0	1.0	20	60	250m	T27	A
40	2N2555	267m	20	#C	3.0	1.0	100	20	60	125u	1.0	1.0	20	60	250m	T27	A
41	2N2556	267m	20	#C	3.0	1.0	40	20	40	125u	1.0	1.0	20	60	250m	T28	A
42	2N2557	267m	20	#C	3.0	1.0	60	20	40	125u	1.0	1.0	20	60	250m	T28	A
43	2N2558	267m	20	#C	3.0	1.0	80	20	60	125u	1.0	1.0	20	60	250m	T28	A
44	2N2559	267m	20	#C	3.0	1.0	100	20	60	125u	1.0	1.0	20	60	250m	T27	A
45	2N2560	267m	20	#C	3.0	1.0	40	20	40	125u	1.0	3.0	20	60	250m	T27	A
46	2N2561	267m	20	#C	3.0	1.0	60	20	50	125u	1.0	3.0	20	60	250m	T27	A
47	2N2562	267m	20	#C	3.0	1.0	80	20	60	125u	1.0	3.0	20	60	250m	T27	A
48	2N2563	267m	20	#C	3.0	1.0	100	20	60	125u	1.0	3.0	20	60	250m	T27	A
49	2N2564	267m	20	#C	3.0	1.0	40	20	30	125u	1.0	3.0	20	60	250m	R122	A
50	2N2565	267m	20	#C	3.0	1.0	60	20	40	125u	1.0	3.0	20	60	250m	R122	A
51	2N2566	267m	20	#C	3.0	1.0	80	20	50	125u	1.0	3.0	20	60	250m	R122	A
52	2N2567	267m	20	#C	3.5	1.0	100	20	60	125u	1.0	3.0	20	60	250m	R122	A
53	TI159	267m	20	#J	3.0	1.0	40	20	30	650u	5.0	1.0	20	60	225k	R101	A
54	TI160	267m	20	#J	3.0	1.0	60	20	40	650u	5.0	1.0	20	60	225k	R101	A
55	TI161	267m	20	#J	3.0	1.0	80	20	50	650u	5.0	1.0	20	60	225k	R101	A
56	TI162	267m	20	#J	3.0	1.0	100	20	60	650u	5.0	1.0	20	60	225k	R101	A
57	JAN2N158	283m	17	#A	2.0		60	30	60	1.0m	2.0	1.0	13	40	4.0k	R173a	F
58#	2SB449	300m	22	#J	3.5	500m	50	20	50	3.0m	0.0	3.0	Δ	85	10k	T03	C
59	HSE800-RT	330m	25	#J			50	15	40	3.0m	2.0	500m	30	100k	T03	C	
60	2N155	333m	1.5	#J	3.0	500m	30	15	15	1.0m	2.0	500m	32	180k	T03	C	
61	2N156	333m	1.5	#J	3.0		30	15	30	1.0m	2.0	500m	24	180k	T03	C	
62	2N157	333m	8.5	#J	3.0		60	30	30	1.0m	2.0	500m	20	100k	T03	C	
63	2N157A	333m	8.5	#J	3.0		90	30	30	1.0m	2.0	500m	20	100k	T03	C	
64	2N158	333m	1.5	#J	3.0	500m	60	30	60	1.0m	2.0	500m	21	180k	T013	D	
65	2N158A	333m		#J	3.0		80	30	60	1.0m	2.0	500m	21	180k	T013	D	
66	2N242	333m	25	#J	2.0		15	15	15	5.0m				5.0k	F5	B	
67	2N255	333m	1.5	#J	3.0		45	15	15					200k		C	
68	2N255A	333m		#J	3.0	50	15	15	15	5.0m	2.0	50	30	125k	T03	C	
69	2N256	333m	1.5	#J	3.0		30	15	30					200k		C	
70	2N296A	333m		#J	2.0	50	30	15	25	5.0m	2.0	50	30	125k	T03	C	
71	2N296	333m	20	#J	2.0		15	15	60	2.0m				4.0k	Δ		
72	2N352	333m		#J	2.0		20	15	40	5.0m	1.5	1.0	30	140			
73	2N1078	333m	20	#J	3.0		60	15	60	1.5m	2.0	500m	40	1.0	Δ	T013	F
74	2N1245	333m	20	#S	4.0		30	15	25	5.0m	2.0	50	50	1.0	Δ	T03	C
75	2N1246	333m	20	#S	4.0		30	15	25	5.0m	2.0	50	150	1.0	Δ	T03	C
76	2N1291	333m	20	#J	3.0		35	15	30	1.5m	2.0	500m	40	1.0	Δ	T03	C
77	2N1293	333m	20	#J	3.0		60	15	60	1.5m	2.0	500m	40	1.0	Δ	T03	C
78	2N1295	333m	20	#J	3.0		80	15	80	2.0m	2.0	500m	40	1.0	Δ	T03	C
79	2N1297	333m	20	#J	3.0		100	15	100	2.0m	2.0	500m	40	1.0	Δ	T03	C
80	2N1320	333m	20	#J	3.0		35	15	30	1.5	2.0	500m	40	1.0	Δ	T010	F
81	2N1322	333m	20	#J	3.0		60	15	60	1.5	2.0	500m	40	1.0	Δ	T010	F
82	2N1324	333m	20	#J	3.0		80	15	80	2.0	2.0	500m	40	1.0	Δ	T010	F
83	2N1326	333m	20	#J	3.0		100	15	100	2.0m	2.0	500m	40	1.0	Δ	T010	F
84	2N1328	333m	20	#J	3.0		35	15	30	2.0m	2.0	500m	40	1.0	Δ	T013	F
85	2N1331	333m	20	#J	3.0		80	15	80	1.5m	2.0	500m	40	1.0	Δ	T013	F
86	2N1333	333m	20	#J	3.0		100	15	100	2.0m	2.0	500m	40	1.0	Δ	T013	F
87	2N1437	333m	23	#J	3.0	500m	100	15	90	2.0m	2.0	500m	20	4.0k	T010	F	
88	2N1438	333m	23	#J													