

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)	MAX P _C (A)	ABSOLUTE MAX. RATINGS @ 25°C					MAX. hFE			f _{ae} (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG Y200 #/s/a TO200 Ser.	# C E O D E		
					I _c (A)	I _b (A)	V _{cb0} (V)	V _{eb0} (V)	V _{ceo} (V)	I _{co} (A)	V _{cb} (V)	I _c (A)							MIN	MAX
										MAX V _{cb} @ 25°C (A)										
1	2N1031	1.2	90	30	15	1.5	50	25	30	15m	2.0	10	20	60	100m	15u	AΔ	T041	C0	
2	2N1031A	1.2	90	30	15	1.5	50	25	40	15m	2.0	10	20	60	100m	15u	AΔ	T041	C0	
3	2N1031B	1.2	90	30	15	1.5	90	25	70	15m	2.0	10	20	60	100m	15u	AΔ	T041	C0	
4	2N1031C	1.2	90	30	15	1.5	100	25	80	15m	2.0	10	20	60	100m	15u	AΔ	T041	C0	
5	2N1032	1.2	90	30	15	1.5	50	25	30	15m	2.0	10	50	100	100m	15u	AΔ	T041	C0	
6	2N1032A	1.2	90	30	15	1.5	60	25	40	15m	2.0	10	50	100	100m	15u	AΔ	T041	C0	
7	2N1032B	1.2	90	30	15	1.5	90	25	70	15m	2.0	10	50	100	100m	15u	AΔ	T041	C0	
8	2N1032C	1.2	90	30	15	1.5	100	25	80	15m	2.0	10	50	100	100m	15u	AΔ	T041	C0	
9	2N1099†	1.2	30	30	15	4.0	80	40	80	8.0m	2.0	5.0	35	70	58m	15u		T036	C0	
10	2N1100†	1.2	30	30	15	4.0	100	40	80	8.0m	2.0	5.0	25	50	58m	15u		T036	C0	
11	JAN2N1120	1.2	90	30	15	5.0	80	40	40	10m	2.0	10	20	50	70m		Δ	T041	C0	
12	2N1146	1.2	87	30	15	5.0	40	30	38	15m	2.0	5.0	60	150	66m			T03	C0	
13	2N1146A	1.2	87	30	15	5.0	60	30	58	15m	2.0	5.0	60	150	66m			T03	C0	
14	2N1146B	1.2	87	30	15	5.0	80	30	78	15m	2.0	5.0	60	150	66m			T03	C0	
15	2N1146C	1.2	87	30	15	5.0	100	30	98	15m	2.0	5.0	60	150	66m			T03	C0	
16	2N1147	1.2	87	30	15	5.0	40	30	38	15m	2.0	5.0	60	150	66m			T041	C0	
17	2N1147A	1.2	87	30	15	5.0	60	30	58	15m	2.0	5.0	60	150	66m			T041	C0	
18	2N1147B	1.2	87	30	15	5.0	80	30	78	15m	2.0	5.0	60	150	66m			T041	C0	
19	2N1147C	1.2	87	30	15	5.0	100	30	98	15m	2.0	5.0	60	150	66m			T041	C0	
20	2N1162	1.2	30	30	25	25	50	20	25	15m	1.0	25	15	65	1.0kΔ			T03	C0	
21	2N1162A	1.2	30	30	25	25	50	25	20	15m	1.0	25	15	65	3.0kΔ			T03	C0	
22	2N1163	1.2	30	30	25	25	50	20	25	15m	1.0	25	15	65	1.0kΔ			T041	C0	
23	2N1163A	1.2	30	30	25	25	50	25	20	15m	1.0	25	15	65	3.0kΔ			T041	C0	
24	2N1164	1.2	30	30	25	25	80	25	35	15m	1.0	25	15	65	1.0kΔ			T03	C0	
25	2N1164A	1.2	30	30	25	25	80	40	40	15m	1.0	25	15	65	3.0kΔ			T03	C0	
26	2N1165	1.2	90	30	25	25	80	25	35	15m	1.0	25	15	65	1.0kΔ			T041	C0	
27	JAN2N1165	1.2	90	30	25	25	80	40	60	15m	1.0	5.0	25	125	3.0kΔ			T041	C0	
28	2N1165A	1.2	90	30	25	25	80	40	40	15m	1.0	25	15	65	3.0kΔ			T03	C0	
29	2N1166	1.2	30	30	25	25	100	30	45	15m	1.0	25	15	65	1.0kΔ			T03	C0	
30	2N1166A	1.2	30	30	25	25	100	50	50	15m	1.0	25	15	65	3.0kΔ			T03	C0	
31	2N1167	1.2	30	30	25	25	100	30	45	15m	1.0	25	15	65	1.0kΔ			T041	C0	
32	2N1167A	1.2	30	30	25	25	100	50	50	15m	1.0	25	15	65	3.0kΔ			T03	C0	
33	2N1182	1.2	106	30	5.0	5.0	12	60	12	12m	2.0	500m	30	85	5.0kΔ			T03	C0	
34	2N1358†	1.2	30	30	15	1.0	80	60	60	8.0m	2.0	1.2	40	80	100kΔ	15u		T036	C0	
35	2N1359	1.2	30	30	3.0	3.0	80	25	40	20m	4.0	1.0	35	90	5.0kΔ			T03	C0	
36	2N1360	1.2	30	30	3.0	3.0	50	25	40	20m	4.0	1.0	60	140	5.0kΔ			T03	C0	
37	2N1362	1.2	30	30	3.0	3.0	100	50	75	20m	4.0	1.0	35	90	5.0kΔ			T03	C0	
38	2N1363	1.2	30	30	3.0	3.0	100	50	75	20m	4.0	1.0	60	140	5.0kΔ			T03	C0	
39	2N1364	1.2	30	30	3.0	3.0	120	60	100	20m	4.0	1.0	35	90	5.0kΔ			T03	C0	
40	2N1365	1.2	30	30	3.0	3.0	120	60	100	20m	4.0	1.0	60	140	5.0kΔ			T03	C0	
41	2N1412	1.2	87	30	15	1.0	100	60	65	8.0m	2.0	5.0	25	50	28m	20u		T036	C0	
42	2N1419†	1.2	87	30	15	1.0	80	50	75	15m	2.0	25	40	100	28m			T03	C0	
43	2N1518	1.2	87	30	25	4.0	50	30	40	100u	4.0	15	15	60	28m	A		T036	C0	
44	2N1519	1.2	87	30	25	4.0	80	30	60	100u	4.0	15	17	68	28m	A		T036	C0	
45	2N1520	1.2	87	30	35	6.0	50	30	40	100u	4.0	15	17	68	17m	A		T036	C0	
46	2N1521	1.2	87	30	35	6.0	80	30	60	100u	4.0	15	25	100	10m	A		T036	C0	
47	2N1522	1.2	87	30	50	8.0	50	30	40	100	4.0	15	25	100	10m	A		T036	C0	
48	2N1523	1.2	87	30	50	8.0	80	30	60	100	4.0	15	25	100	10m	A		T036	C0	
49	2N1529	1.2	30	30	5.0	5.0	40	20	30	200u	2.0	3.0	20	40	2.0k			T03	C0	
50	2N1530	1.2	30	30	5.0	5.0	60	30	45	200u	2.0	3.0	20	40	2.0k			T03	C0	
51	2N1531	1.2	30	30	5.0	5.0	80	40	60	200u	2.0	3.0	20	40	2.0k			T03	C0	
52	2N1532	1.2	30	30	5.0	5.0	100	50	75	200u	2.0	3.0	20	40	2.0k			T03	C0	
53	2N1533	1.2	30	30	5.0	5.0	120	60	90	200u	2.0	3.0	35	70	2.0k			T03	C0	
54	2N1534	1.2	30	30	5.0	5.0	40	20	30	200u	2.0	3.0	35	70	2.0k			T03	C0	
55	2N1535	1.2	30	30	5.0	5.0	60	30	45	200u	2.0	3.0	35	70	2.0k			T03	C0	
56	2N1536	1.2	30	30	5.0	5.0	80	40	60	200u	2.0	3.0	35	70	2.0k			T03	C0	
57	2N1537	1.2	30	30	5.0	5.0	100	50	75	200u	2.0	3.0	35	70	2.0k			T03	C0	
58	2N1538	1.2	30	30	5.0	5.0	120	60	90	200u	2.0	3.0	50	100	1.0k			T03	C0	
59	2N1539	1.2	30	30	5.0	5.0	40	20	30	200u	2.0	3.0	50	100	3.0kΔ			T03	C0	
60	2N1539A	1.2	30	30	5.0	5.0	40	20	20	20m	2.0	3.0	50	100	1.0k			T03	C0	
61	2N1540	1.2	30	30	5.0	5.0	60	30	45	20m	2.0	3.0	50	100	3.0kΔ			T03	C0	
62	2N1540A	1.2	30	30	5.0	5.0	60	30	30	200u	2.0	3.0	50	100	1.0k			T03	C0	
63	2N1541	1.2	30	30	5.0	5.0	80	40	60	20m	2.0	3.0	50	100	3.0kΔ			T03	C0	
64	2N1541A	1.2	30	30	5.0	5.0	80	40	40	20m	2.0	3.0	50	100	1.0k			T03	C0	
65	2N1542	1.2	30	30	5.0	5.0	100	50	50	20m	2.0	3.0	50	100	3.0kΔ			T03	C0	
66	2N1542A	1.2	30	30	5.0	5.0	100	50	50	200u	2.0	3.0	50	100	1.0k			T03	C0	
67	2N1543	1.2	30	30	5.0	5.0	120	60	90	20m	2.0	3.0	75	150	1.0kΔ			T03	C0	
68	2N1544	1.2	30	30	5.0	5.0	40	20	20	20m	2.0	3.0	75	150	3.0kΔ			T03	C0	
69	2N1544A	1.2	30	30	5.0	5.0	40	20	20	20m	2.0	3.0	75	150	1.0kΔ			T03	C0	
70	2N1545	1.2	30	30	5.0	5.0	60	30	30	20m	2.0	3.0	75	150	3.0kΔ			T03	C0	
71	2N1545A	1.2	30	30	5.0	5.0	60	30	30	20m	2.0	3.0	75	150	1.0kΔ			T03	C0	
72	2N1546	1.2	30	30	5.0	5.0	80	40	40	20m	2.0	3.0	75	150	3.0kΔ			T03	C0	
73	2N1546A	1.2	30	30	5.0	5.0	80	40	40	20m	2.0	3.0	75	150	1.0kΔ			T03	C0	
74	2N1547	1.2	30	30	5.0	5.0	100	50	50	20m	2.0	3.0	75	150	3.0kΔ			T03	C0	
75	2N1547A	1.2	30	30	5.0	5.0	100	50	50	20m	2.0	3.0	75	150	1.0kΔ			T03	C0	
76	2N1548	1.2	30	30	5.0	5.0	120	60	60	20m	2.0	3.0	75	150	3.0kΔ			T03	C0	
77	2N1549	1.2	30	30	15	15	40	20	20	20m	2.0	10	10	30	100m			T03	C0	
78	2N1549A	1.2	30	30	15	15	40	20	20	3.0m	2.0									