

MADT[®] PNP GERMANIUM TRANSISTORS FOR COMMUNICATION APPLICATIONS

Type No.	Junction Temp (°C)	MAXIMUM RATINGS			CHARACTERISTICS								
		V _{CB} (Volts)	P _T (mW)	I _C (mA)	I _{CBO} (μA)	Typ. h _{FE}	Max. C _{ob} (pF)	Max. r _b 'C _c (psec)	Min. f _{max} (MHz)	Min. PG @ (db)	f (MHz)	Max. N.F. (dB)	
2N499†	85	30	30	50	5	—	2.5	250	240	7.5	100	—	
2N499A†	100	30	60	50	5	20-80Ⓞ	2.5	250	240	7.5	100	—	
2N504	85	35	30	50	10	18	2.5	—	50	46	455	—	
2N588	85	15	30	50	15	—	—	—	50	14	50	15	
2N588A	85	15	60	50	15	45	—	—	50	14	50	15	
2N1300	85	13	150	100	3	50	—	—	25	—	—	—	
2N1301	85	13	150	100	3	50	—	—	35	—	—	—	
2N1683	85	13	150	100	3	76	—	—	50	—	—	—	
2N502	85	20	60	100	5	65	2.0	120	500	8	200	—	
2N502A†	100	30	75	100	5	65	1.6	50	620	10	200	7	
2N502B†	100	30	75	100	5	20-80Ⓞ	1.6	50	620	10	200	7	
2N503	85	20	25	50	10	4.2	2.0	120	100	11	100	—	
2N1726	100	20	60	50	10	40Ⓞ	2.5	100	100	35Ⓞ	1.6	—	
2N1727	100	20	60	50	10	15Ⓞ	2.5	—	100	35ⓄⓄ	1.6-455	—	
2N1728	100	20	60	50	10	25Ⓞ	2.5	—	100	40Ⓞ	455	—	
2N1745	100	20	60	50	10	33Ⓞ	—	—	500	21	45	—	
2N1746	100	20	60	50	10	10Ⓞ	3	100	100	30Ⓞ	4.5	—	
2N1747	100	20	60	50	10	10Ⓞ	—	—	180	25-31Ⓞ	10.7	—	
2N1748	100	25	60	50	10	30-150	2.5	—	50	—	—	—	
2N1748A	100	25	60	50	10	70	2.5	—	100Ⓞ	—	—	—	
2N1749	100	40	75	10	10	30-150	2.5	—	50	—	—	—	
2N1752	100	12	60	50	10	50-300	3.0	—	50	—	—	—	
2N1785	85	10	45	50	10	40Ⓞ	3	100	50	35Ⓞ	1.6	—	
2N1786	85	10	45	50	10	15Ⓞ	3	100	50	35ⓄⓄ	1.6-455	—	
2N1787	85	15	45	50	10	20Ⓞ	3	100	50	40Ⓞ	455	—	
2N1788	100	35	60	50	5	40Ⓞ	2.5	100	100	35Ⓞ	1.6	—	
2N1789	100	35	60	50	7	15Ⓞ	2.5	100	100	35ⓄⓄ	1.6-455	—	
2N1864	100	20	60	50	10	20Ⓞ	3	100	50	30Ⓞ	455	—	
2N1865	100	20	60	50	10	60Ⓞ	—	—	180	25-31Ⓞ	10.7	—	
2N1866	100	35	60	50	10	40Ⓞ	—	—	180	25-31Ⓞ	10.7	—	
2N1867	100	35	60	50	10	50	—	—	180	25-31Ⓞ	10.7	—	
2N1868	100	20	60	50	10	33Ⓞ	—	—	400	21-28Ⓞ	45	—	
2N2199	100	15	75	100	5	14	—	—	120	—	—	—	
2N2200	100	15	75	100	5	14	—	—	120	—	—	—	

Ⓞ Min-Max Ⓞ Min h_{FE} Ⓞ Typical Ⓞ Conversion gain Ⓞ h_{FE} Ⓞ f_T

MADT[®] PNP GERMANIUM TRANSISTORS FOR VHF/UHF APPLICATIONS

2N1742	125	20	60	50	10	33	—	—	980	14-19Ⓞ	200	5.5
2N1743	125	20	60	50	10	33	—	—	—	14Ⓞ	200-44	12
2N1744	125	20	60	50	10	33	—	—	—	1.5Ⓞ	257	—
2N2360	125	20	60	50	10	33	—	—	980	14-19Ⓞ	200	5.5
2N2361	125	20	60	50	10	33	—	—	—	14Ⓞ	200-44	12
2N2362	125	20	60	50	10	33	—	—	—	1.5Ⓞ	257	—
2N2398	125	20	60	50	10	33	—	—	1200	16-22Ⓞ	200	4.5
2N2399	125	20	60	50	10	33	—	—	—	16Ⓞ	200-44	9

Ⓞ Min-Max Ⓞ Conversion gain Ⓞ Power output mW

SBT[®] PNP GERMANIUM TRANSISTORS FOR SWITCHING APPLICATIONS *

Type No.	Junction Temp (°C)	MAXIMUM RATINGS				Max. CUT-OFF CURRENT		CURRENT AMPL. FACTOR				Max. SATURATION VOLTAGE				Max. C _{ob} (pF)
		V _{CB} (Volts)	V _{CES} (Volts)	P _D @ 25°C (mW)	I _C (mA)	I _{CBO} (μA)	@ V _{CB} (Volts)	h _{FE} (min)	h _{FE} (max)	I _C (mA)	@ V _{CE} (Volts)	V _{CE} (Volts)	V _{BE} (Volts)	I _C (mA)	I _B (mA)	
2N128†	85	10	4.5	25	5	3	3	19	—	0.5	3	—	—	—	—	5
2N231	85	4.5	4.5	9	3	3	5	19	66	0.5	3	—	—	—	—	6
2N240†	85	6	6	30	15	3	5	16	—	0.5	3	0.07	0.5	2	0.3	6
2N344	85	5	5	20	5	3	5	11	33	0.5	3	—	—	—	—	6
2N345	85	5	5	20	5	3	5	25	110	0.5	3	—	—	—	—	6
2N346	85	5	5	20	5	3	5	10	—	0.5	3	—	—	—	—	6

† Available to military specifications.

* Available until present stock is exhausted.