

# germanium power transistors

3/ See Pg. 147 for outline drawing

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## PNP ALLOY TRANSISTORS (5.0 Amp)

TYPE NUMBER	BREAKDOWN VOLTAGES			$h_{FE}$				CUTOFF CURRENT	
	$V_{CB}$	$V_{CE}$	$V_{EB}$	@ $V_{CE}$	@ $I_c$ (A)	Min.	Max.	@ $V_{CB}$	mA
2N456	-40	-40	-20	-1.5	-5.0	10	—	-20	-0.5
2N456A	-40	-30	-20	-1.5	-5.0	30	90	-40	-2.0
2N456B	-40	-30	-30	-1.5	-5.0	30	90	-40	-2.0
2N457	-60	-60	-20	-1.5	-5.0	10	—	-30	-0.5
2N457A	-60	-40	-20	-1.5	-5.0	30	90	-30	-0.5
2N457B	-60	-40	-30	-1.5	-5.0	30	90	-30	-0.5
2N458	-80	-80	-20	-1.5	-5.0	10	—	-40	-0.5
2N458A	-80	-45	-20	-1.5	-5.0	30	90	-40	-0.5
2N458B	-80	-45	-30	-1.5	-5.0	30	90	-40	-0.5
2N1021	-100	-50	-20	-1.5	-5.0	30	90	-50	-0.5
2N1021A	-100	-50	-30	-1.5	-5.0	30	90	-50	-0.5
2N1022	-120	-55	-20	-1.5	-5.0	30	90	-60	-0.5
2N1022A	-120	-55	-30	-1.5	-5.0	30	90	-60	-0.5
2N1146	-40	-30	-30	-2.0	-5.0	60	150	-20	-4.0
2N1146A	-60	-45	-30	-2.0	-5.0	60	150	-30	-4.0
2N1146B	-80	-60	-30	-2.0	-5.0	60	150	-40	-4.0
2N1146C	-100	-75	-30	-2.0	-5.0	60	150	-50	-4.0
2N1147	-40	-30	-30	-2.0	-5.0	60	150	-20	-4.0
2N1147A	-60	-45	-30	-2.0	-5.0	60	150	-30	-4.0
2N1147B	-80	-60	-30	-2.0	-5.0	60	150	-40	-4.0
2N1147C	-100	-75	-30	-2.0	-5.0	60	150	-50	-4.0
2N1160	-80	-60	-20	-2.0	-5.0	20	50	-80	-0.5
2N4242	-80	-70	-40	-2.0	-5.0	40	80	-40	-2.0 ma
2N4243	-60	-55	-30	-2.0	-5.0	40	80	-30	-2.0 ma
2N4244	-40	-40	-20	-2.0	-5.0	40	80	-20	-2.0 ma
2N4245	-80	-70	-40	-2.0	-5.0	60	120	-40	-2.0 ma
2N4246	-60	-55	-30	-2.0	-5.0	60	120	-30	-2.0 ma
2N4247	-40	-40	-20	-2.0	-5.0	60	120	-20	-2.0 ma
2N5156	-100	-60	-60	-2.0	-5.0	25	60	-50	-4.0 ma

## PNP ALLOY TRANSISTORS (10.0 Amp)

TYPE NUMBER	BREAKDOWN VOLTAGES			$h_{FE}$				CUTOFF CURRENT	
	$V_{CB}$	$V_{CE}$	$V_{EB}$	@ $V_{CE}$	@ $I_c$ (A)	Min.	Max.	@ $V_{CB}$	mA
2N511	-40	-30	-30	-2.0	-10	20	60	-40	-15 ma
2N511A	-60	-40	-30	-2.0	-10	20	60	-60	-15
2N511B	-80	-45	-30	-2.0	-10	20	60	-80	-15
2N627	-40	-30	-20	-2.0	-10	10	30	-2.0	-0.2
2N628	-60	-45	-30	-2.0	-10	10	30	-2.0	-0.2
2N629	-80	-60	-40	-2.0	-10	10	30	-2.0	-0.2
2N630	-100	-75	-50	-2.0	-10	10	30	-2.0	-0.2