

## GERMANIUM POWER TRANSISTORS

TYPE NUMBER	CASE TYPE	V <sub>CBO</sub> V	V <sub>CEO</sub> V	V <sub>EBO</sub> V	V <sub>CER</sub> V	V <sub>CES</sub> V	CURRENT GAIN			SATURATION VOLTAGES					
							h <sub>FE</sub>		V <sub>CE</sub> <sup>®</sup> V	I <sub>C</sub> A	V <sub>CE(s)</sub> V	V <sub>BE(s)</sub> V	I <sub>C</sub> A	I <sub>B</sub> A	
							MIN.	MAX.							
<b>7 AMP GERMANIUM PNP</b>		Observe (–) Negative Polarity													
2N457A	TO-3	60	30	20.0			30	90	1.5	5.0	.50		5.0	.500	
2N457B	TO-3	60		30.0		60	30	90	1.5	5.0	.50		5.0	.500	
2N458	TO-3	80		20.0			10		1.5	5.0	.50		5.0	.500	
2N458A	TO-3	80	40	20.0			30	90	1.5	5.0	.50		5.0	.500	
2N458B	TO-3	80		30.0		65	30	90	1.5	5.0	.50		5.0	.500	
2N637	TO-3	60		15.0	35		30	60	5.0	3.0	.80		3.0	.300	
2N637A	TO-3	90		15.0	65		30	60	5.0	3.0	.80		3.0	.300	
2N637B	TO-3	100		15.0	75		30	60	5.0	3.0	.80		3.0	.300	
2N638	TO-3	60		15.0	35		20	40	5.0	3.0	.15		3.0	.300	
2N638A	TO-3	90		15.0	65		20	40	5.0	3.0	.15		3.0	.300	
2N638B	TO-3	100		15.0	75		20	40	5.0	3.0	.15		3.0	.300	
2N1021	TO-3	100		20.0		100	30	90	1.5	5.0	.50		5.0	.500	
2N1021A	TO-3	100	50	30.0		70	30	90	1.5	5.0	.50		5.0	.500	
2N1022	TO-3	120		20.0		120	30	90	1.5	5.0	.50		5.0	.500	
2N1022A	TO-3	120	55	30.0		75	30	90	2.0	5.0	.50		5.0	.500	
2N1160	TO-3	80	60	20.0			20	50	2.0	5.0	1.00		5.0	.500	
2N3611	TO-3	40		20.0		30	35	70	2.0	3.0	.25		3.0	.300	
2N3612	TO-3	60		30.0		45	35	70	2.0	3.0	.25		3.0	.300	
2N3613	TO-3	40		20.0		30	60	120	2.0	3.0	.25		3.0	.300	
2N3614	TO-3	60		30.0		45	60	120	2.0	3.0	.25		3.0	.300	
2N3615	TO-3	80		40.0		60	30	60	2.0	3.0	.25		3.0	.300	
2N3616	TO-3	100		50.0		75	30	60	2.0	3.0	.25		3.0	.300	
2N3617	TO-3	80		40.0		60	45	90	2.0	3.0	.25		3.0	.300	
2N3618	TO-3	100		50.0		75	45	90	2.0	3.0	.25		3.0	.300	
<b>10 AMP GERMANIUM PNP</b>		Observe (–) Negative Polarity													
DA3F3	MT-7	60	35				25		2.0	10.0					
2N574	MT-7	60	55			55	9	22	2.0	10.0	.20		1.0	2.000	
2N574A	MT-7	80	60			70	9	22	2.0	10.0	.20		1.0	2.000	
2N627	TO-3	40		20.0		30	10	30	2.0	10.0	1.00		10.0	1.000	
2N628	TO-3	60		30.0		45	10	30	2.0	10.0	1.00		10.0	1.000	
2N629	TO-3	80		40.0		60	10	30	2.0	10.0	1.00		10.0	1.000	
2N630	TO-3	100		50.0		75	10	30	2.0	10.0	1.00		10.0	1.000	
2N1073	TO-3	40		.8	40		20	60	2.0	5.0	1.00		5.0	.500	
2N1073A	TO-3	80		.8	80		20	60	2.0	5.0	1.00		5.0	.500	
2N1073B	TO-3	120		.8	120		20	60	2.0	5.0	1.00		5.0	.500	
2N1430	TO-41*	120	100	1.0			30	120	2.0	5.0	.40	.90	10.0	1.000	
2N2212	TO-41*	120	60	1.5	120		50	120	2.0	5.0	1.00	1.00	5.0	.500	
2N2288	TO-3	40	30	.8	40		20	60	2.0	5.0	1.00	1.00	5.0	.500	
2N2289	TO-3	80	50	.8	80		20	60	2.0	5.0	1.00	1.00	5.0	.500	
2N2290	TO-3	120	70	.8	120		20	60	2.0	5.0	1.00	1.00	5.0	.500	
2N2291	TO-3	40	30	.8	40		50	120	2.0	5.0	1.00	1.00	5.0	.500	
2N2292	TO-3	80	50	.8	80		50	120	2.0	5.0	1.00	1.00	5.0	.500	
2N2293	TO-3	120	70	.8	120		50	120	2.0	5.0	1.00	1.00	5.0	.500	
2N2294	TO-41*	40		.8	40		50	120	2.0	5.0	1.00	1.00	5.0	.500	
2N2295	TO-41*	80		.8	80		50	120	2.0	5.0	1.00	1.00	5.0	.500	
2N2296	TO-41*	120		.8	120		50	120	2.0	5.0	1.00	1.00	5.0	.500	
2N2444	TO-3	80	80	1.0			75	120	2.0	3.0	1.00	1.50	5.0	.500	
2N2869	TO-3	60	50	10.0			50	165	2.0	1.0	.75		5.0	.500	
2N2870	TO-3	80	50	10.0			50	165	2.0	1.0	.50		5.0	.500	
2N5156	TO-3	100	60	60.0			25	60	2.0	5.0	1.00	1.80	10.0	1.000	
<b>12 AMP GERMANIUM PNP</b>		Observe (–) Negative Polarity													
2N173	TO-36	60	50	40.0		50	35	70	2.0	5.0	.30		12.0	2.000	
2N174	TO-36	80	55	60.0		70	25	70	2.0	5.0	.90		12.0	2.000	
2N441	TO-36	40	40	20.0		40	20	40	2.0	5.0	.30		12.0	2.000	
2N442	TO-36	50	45	30.0		45	20	40	2.0	5.0	.30		12.0	2.000	
2N443	TO-36	60	55			50	20	40	2.0	5.0	.30		12.0	2.000	

\*TO-3 with Solder Lugs

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$\theta_{J-C}$ °C/W	TYPICAL SWITCHING TIMES					$V_{CE}$ V	$I_C$ A	EL	TYPE NUMBER
	$t_r$ $\mu s$	$t_{on}$ $\mu s$	$t_s$ $\mu s$	$t_f$ $\mu s$	$t_{off}$ $\mu s$				
<b>7 AMP GERMANIUM PNP</b> Observe (–) Negative Polarity									
.50								G6	2N457A
.50								G7	2N457B
.50								G6	2N458
.50								G6	2N458A
.50								G7	2N458B
1.50								G4	2N637
1.50								G4	2N637A
1.50								G4	2N637B
2.00								G4	2N638
2.00								G4	2N638A
2.00								G4	2N638B
.50								G7	2N1021
.50								G7	2N1021A
.50								G7	2N1022
.50								G7	2N1022A
1.20								G7	2N1160
.90								G6	2N3611
.90								G6	2N3612
.90								G6	2N3613
.90								G6	2N3614
.90								G6	2N3615
.90								G6	2N3616
.90								G6	2N3617
.90								G6	2N3618
<b>10 AMP GERMANIUM PNP</b> Observe (–) Negative Polarity									
.40								10	DA3F3
.40								10	2N574
.40								10	2N574A
.80								G7	2N627
.80								G7	2N628
.80								G7	2N629
.80								G7	2N630
1.20								D2	2N1073
1.20								D2	2N1073A
1.20								D2	2N1073B
1.20								D2	2N1430
.80								D2	2N2212
1.20								D2	2N2288
1.20								D2	2N2289
1.20								D2	2N2290
1.20								D2	2N2291
1.20								D2	2N2292
1.20								D2	2N2293
1.20								D2	2N2294
1.20								D2	2N2295
1.20								D2	2N2296
1.00								D2	2N2444
1.50								G4	2N2869
1.50								G4	2N2870
.80								G7	2N5156
<b>12 AMP GERMANIUM PNP</b> Observe (–) Negative Polarity									
1.00								17	2N173
.80								17	2N174
1.00								17	2N441
1.00								17	2N442
1.00								17	2N443