

GERMANIUM POWER TRANSISTORS

TYPE NUMBER	CASE TYPE	V _{CBO} V	V _{CEO} V	V _{EBO} V	V _{CER} V	V _{CES} V	CURRENT GAIN			SATURATION VOLTAGES				
							h _{FE}		V _{CE} [®] V	I _C A	V _{CE(s)} V	V _{BE(s)} V	I _C A	I _B A
							MIN.	MAX.						
7 AMP GERMANIUM PNP 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
10 AMP GERMANIUM PNP 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
12 AMP GERMANIUM PNP 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

GERMANIUM POWER TRANSISTORS

θ_{J-C} °C/W	TYPICAL SWITCHING TIMES					V_{CE} V	I_C A	EL	TYPE NUMBER
	t_r μs	t_{on} μs	t_s μs	t_f μs	t_{off} μs				
7 AMP GERMANIUM PNP 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
10 AMP GERMANIUM PNP 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
12 AMP GERMANIUM PNP Observe (–) Negative Polarity									
1.00								17	2N173
.80								17	2N174
1.00								17	2N441
1.00								17	2N442
1.00								17	2N443