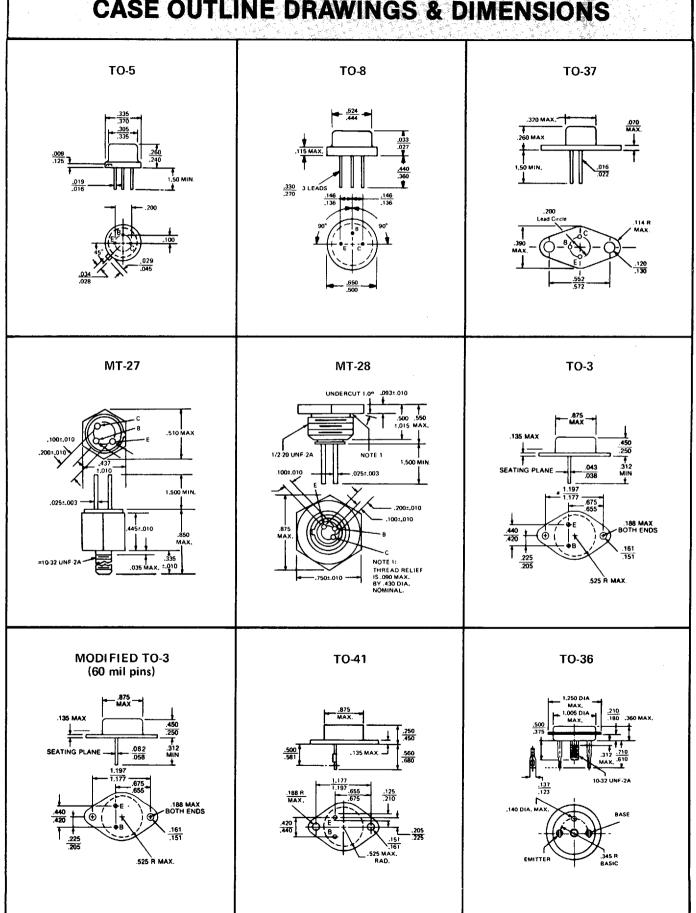
Type Number	Case Type	V <sub>CBO</sub>	V <sub>CEO</sub>	V <sub>EBO</sub>	V <sub>CER</sub>	V <sub>CES</sub>	CURRENT GAIN $\begin{array}{ccc} h_{rs} & V_{cs} @ I_c \\ Min. & Max. & V & A \end{array}$			SAT V <sub>CE(r)</sub> V	SATURATION VOLTAGES  VCE(v) VBE(v) Ic @ Is  V V A A			θs.c °C/W	
10 AMP GERMANIUM PNP (Cont.)															
2N629 2N630 2N1073 2N1073A 2N1073B	TO-3 TO-3 TO-3 TO-3 TO-3	80 100 40 80 120		40.0 50.0 .8 .8	40 80 120	60 75	10 10 20 20 20 20	30 30 60 60 60	2.0 2.0 2.0 2.0 2.0 2.0	10.0 10.0 5.0 5.0 5.0	1.00 1.00 1.00 1.00 1.00		10.0 10.0 5.0 5.0 5.0	1.000 1.000 .500 .500 .500	.80 .80 1.20 1.20 1.20
2N1430 2N2212 2N2288 2N2289 2N2290	TO-41* TO-41* TO-3 TO-3 TO-3	120 120 40 80 120	100 60 30 50 70	1.0 1.5 .8 .8	120 40 80 120		30 50 20 20 20 20	120 120 60 60 60	2.0 2.0 2.0 2.0 2.0 2.0	5.0 5.0 5.0 5.0 5.0	.40 1.00 1.00 1.00 1.00	.90 1.00 1.00 1.00 1.00	10.0 5.0 5.0 5.0 5.0	1.000 .500 .500 .500 .500	1.20 .80 1.20 1.20 1.20
2N2291 2N2292 2N2293 2N2294 2N2295	TO-3 TO-3 TO-41* TO-41*	40 80 120 40 80	30 50 70	.8 .8 .8 .8	40 80 120 40 80		50 50 50 50 50	120 120 120 120 120	2.0 2.0 2.0 2.0 2.0 2.0	5.0 5.0 5.0 5.0 5.0	1.00 1.00 1.00 1.00 1.00	1.00 1.00 1.00 1.00 1.00	5.0 5.0 5.0 5.0 5.0	.500 .500 .500 .500 .500	1.20 1.20 1.20 1.20 1.20
2N2296 2N2444 2N2869 2N2870 2N5156	TO-41* TO-3 TO-3 TO-3 TO-3	120 80 60 80 100	80 50 50 60	.8 1.0 10.0 10.0 60.0	120		50 75 50 50 25	120 120 165 165 60	2.0 2.0 2.0 2.0 2.0 2.0	5.0 3.0 1.0 1.0 5.0	1.00 1.00 .75 .50 1.00	1.00 1.50	5.0 5.0 5.0 5.0 10.0	.500 .500 .500 .500 .500 1.000	1.20 1.00 1.50 1.50 .80
*TO-3 with so	older lugs				1	2 AMP (	GERMA	NIUM P	NP						
2N173 2N174A 2N441 2N442 2N443	TO-36 TO-36 TO-36 TO-36 TO-36	60 80 40 50 60	50 55 40 45 55	40.0 60.0 20.0 30.0		50 70 40 45 50	35 25 20 20 20	70 70 40 40 40	2.0 2.0 2.0 2.0 2.0 2.0	5.0 5.0 5.0 5.0 5.0	.30 .90 .30 .30		12.0 12.0 12.0 12.0 12.0	2.000 2.000 2.000 2.000 2.000	1.00 .80 1.00 1.00 1.00
					1	5 AMP (	GERMA	NIUM P	NP				\ 7		
2N278 2N677 2N677A 2N677B 2N677C	TO-36 TO-3 TO-3 TO-3 TO-3	50 50 60 90 100	45 20 30 60 70	30.0 25.0 25.0 25.0 25.0 25.0		45 30 40 70 80	35 20 20 20 20 20	70 60 60 60 60	2.0 2.0 2.0 2.0 2.0 2.0	5.0 10.0 10.0 10.0 10.0	.30 1.00 1.00 1.00 1.00		12.0 10.0 10.0 10.0 10.0	2.000 1.000 1.000 1.000 1.000	1.00 .80 .80 .80 .80
2N678 2N678A 2N678B 2N678C 2N1031	TO-3 TO-3 TO-3 TO-3 TO-3	50 60 90 100 50	20 30 60 70	25.0 25.0 25.0 25.0 25.0 10.0		30 40 70 80 30	50 50 50 50 50 20	100 100 100 100 60	2.0 2.0 2.0 2.0 2.0 2.0	10.0 10.0 10.0 10.0 10.0	1.00 1.00 1.00 1.00 1.00		10.0 10.0 10.0 10.0 10.0	1.000 1.000 1.000 1.000 1.000	.80 .80 .80 .80
2N1031A 2N1031B 2N1031C 2N1032 2N1032A	TO-3 TO-3 TO-3 TO-3 TO-3	60 90 100 50 60		15.0 15.0 15.0 10.0 15.0		40 70 80 30 40	20 20 20 50 50	60 60 60 100 100	2.0 2.0 2.0 2.0 2.0 2.0	10.0 10.0 10.0 10.0 10.0	1.00 1.00 1.00 1.00 1.00		10.0 10.0 10.0 10.0 10.0	1.000 1.000 1.000 1.000 1.000	.80 .80 .80 .80
2N1032B 2N1032C 2N1099 2N1100 2N1120	TO-3 TO-3 TO-36 TO-36 TO-3	90 100 80 100 80	55 65	15.0 15.0 40.0 80.0 40.0		70 80 70 80 70	50 50 35 25 20	100 100 70 50 50	2.0 2.0 2.0 2.0 2.0 2.0	10.0 10.0 5.0 5.0 10.0	1.00 1.00 .30 .30 1.00		10.0 10.0 12.0 12.0 10.0	1.000 1.000 2.000 2.000 1.000	.80 .80 .80 .80 1.50
2N1146 2N1146A 2N1146B 2N1146C 2N1147	TO-3 TO-3 TO-3 TO-3 TO-3	40 60 80 100 40		30.0 30.0 30.0 30.0 30.0		30 40 60 75 30	60 60 60 60 60	150 150 150 150 150	2.0 2.0 2.0 2.0 2.0 2.0	5.0 5.0 5.0 5.0 5.0	1.00 1.00 1.00 1.00 1.00		15.0 4.0 10.0 15.0 15.0	1.000 .200 1.000 1.000 1.000	.80 2.50 2.50 .80 .80
2N1147A 2N1147B 2N1147C 2N1358 2N1412	TO-3 TO-3 TO-3 TO-36 TO-36	60 80 100 80 100	40 65	30.0 30.0 30.0 60.0 60.0		40 60 75 70 80	60 60 60 25 25	150 150 150 50 50	2.0 2.0 2.0 2.0 2.0 2.0	5.0 5.0 5.0 5.0 5.0	1.00 1.00 1.00 .30 .70		15.0 15.0 15.0 12.0 12.0	1.000 1.000 1.000 2.000 2.000	.80 .80 .80 .80
2N1412A 2N1549 2N1549A 2N1550 2N1550A	TO-3 TO-3 TO-3 TO-3	40 40 60 60		20.0 20.0 30.0 30.0		30 30 45 45	10 10 10 10	30 30 30 30 30	2.0 2.0 2.0 2.0	10.0 10.0 10.0 10.0	1.00 1.00 1.00 1.00		10.0 10.0 10.0 10.0	1.000 1.000 1.000 1.000	.80 .80 .80
2N1551 2N1551A 2N1552 2N1552 2N1552A 2N1553	TO-3 TO-3 TO-3 TO-3 TO-3	80 80 100 100 40	20	40.0 40.0 50.0 50.0 20.0		60 60 75 75 30	10 10 10 10 30	30 30 30 30 30 60	2.0 2.0 2.0 2.0 2.0 2.0	10.0 10.0 10.0 10.0 10.0	1.00 1.00 1.00 1.00 1.00		10.0 10.0 10.0 10.0 10.0	1.000 1.000 1.000 1.000 1.000	.80 .80 .80 .80

## **CASE OUTLINE DRAWINGS & DIMENSIONS**



# **CASE OUTLINE DRAWINGS & DIMENSIONS** TO-13 TO-66 MS-7 .360 MIN. MT-22 MT-23 MT-7 .09 DIA. (3) ... L COLLECTOR TO-68 MT-36 SEATING PLANE Germanium Power Devices Corporation

#### **CASE OUTLINE DRAWINGS & DIMENSIONS** NS257 **TO-1** Dimensions in mm 15.7max 38.1<sup>min</sup> 410 MAX. .050 MAX. SEATING PLANE TO-18 3 LEADS 0.019 DIA (34) - | | | | | | .019 .016 (DIM A) 0.100 LLLL .021 MAX (DIM B) - COLLECTOR 0.050 .250 MIN. 0.050 ALL DIMENSIONS ARE MAXIMUM IN INCHES UNLESS OTHERWISE (34) .061 THE COLLECTOR IS ELECTRICAL ALL JEDEC TO-18 DIMENSIONS CONTACT WITH THE CASE. AND NOTES ARE APPLICABLE.



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