

GERMANIUM POWER TRANSISTORS

Type Number	Case Type	$V_{CE0(max)}$ V	V_{EBO} V	h_{FE} @ I_C/V_{CE} (Min-Max @ A/V)	$V_{CE(max)}$ @ I_C/I_B (V @ A/A)	V_{BE} @ I_C/V_{CE} (V @ A/V)	I_{CEV} @ V_{CE} (mA @ V)	$P_D @$ $T_C = 25^\circ C$ (watts)	θ_{JC} ($^\circ C/W$)	$T_{J(max)}$ ($^\circ C$)	f_T (KHz)
3 AMP GERMANIUM PNP (Cont.)											
2N2668	MT-27	30	20	50-150 @ .5/.5	.25 @ .5/.025	.6 @ .5/.5	.6 @ 50	15	5.0	100	300
2N2669	MT-27	40	20	50-150 @ .5/.5	.25 @ .5/.025	.6 @ .5/.5	.6 @ 70	15	5.0	100	300
2N2670	MT-27	50	20	50-150 @ .5/.5	.25 @ .5/.025	.6 @ .5/.5	.6 @ 90	15	5.0	100	300
2N1042	MT-28	30	20	20-60 @ 3/1	.75 @ 3/3	1.5 @ 3/1	.65 @ 40	20	3.75	100	250
2N1043	MT-28	40	20	20-60 @ 3/1	.75 @ 3/3	1.5 @ 3/1	.65 @ 60	20	3.75	100	250
2N1044	MT-28	50	20	20-60 @ 3/1	.75 @ 3/3	1.5 @ 3/1	.65 @ 80	20	3.75	100	250
2N1045	MT-28	60	20	20-60 @ 3/1	.75 @ 3/3	1.5 @ 3/1	.65 @ 100	20	3.75	100	250
2N2556	MT-28	30	20	20-60 @ 1/.5	.25 @ 1/1	1 @ 1/.5	.65 @ 40	20	3.75	100	225
2N2557	MT-28	40	20	20-60 @ 1/.5	.25 @ 1/1	1 @ 1/.5	.65 @ 60	20	3.75	100	225
2N2558	MT-28	50	20	20-60 @ 1/.5	.25 @ 1/1	1 @ 1/.5	.65 @ 80	20	3.75	100	225
2N2559	MT-28	60	20	20-60 @ 1/.5	.25 @ 1/1	1 @ 1/.5	.65 @ 100	20	3.75	100	225
2N2282	TO-37	30	1.5	30-75 @ .5/1	.4 @ 1/.05	.7 @ 1/.05	.1 @ 20	5.0	15	110	2500
2N2283	TO-37	60	1.5	30-75 @ .5/1	.4 @ 1/.05	.7 @ 1/.05	.1 @ 40	5.0	15	110	2500
2N2284	TO-37	100	1.5	30-75 @ .5/1	.4 @ 1/.05	.7 @ 1/.05	.1 @ 60	5.0	15	110	2500
2N3212	TO-37	80	2.0	30-90 @ 3/2	.5 @ 5/5	1.4 @ 5/5	1 @ 100	12.1	7.0	110	300
2N3213	TO-37	60	2.0	30-90 @ 3/2	.5 @ 5/5	1.4 @ 5/5	1 @ 80	12.1	7.0	110	300
2N3214	TO-37	40	2.0	30-90 @ 3/2	.5 @ 5/5	1.4 @ 5/5	1 @ 60	12.1	7.0	110	300
2N3215	TO-37	30	2.0	25-100 @ 3/2	.5 @ 5/5	1.4 @ 5/5	1 @ 40	12.1	7.0	110	300
2N1183	TO-8	20	20	20-60 @ .4/2	.3 @ .4/.04	1.5 @ .4/2	.25 @ 45	7.5	10	100	350
2N1183A	TO-8	30	20	20-60 @ .4/2	.5 @ .4/.04	1.5 @ .4/2	.25 @ 60	7.5	10	100	300
2N1183B	TO-8	40	20	20-60 @ .4/2	.5 @ .4/.04	1.5 @ .4/2	.25 @ 80	7.5	10	100	500
2N1184	TO-8	20	20	40-120 @ .4/2	.3 @ .4/.04	1.5 @ .4/2	.25 @ 45	7.5	10	100	350
2N1184A	TO-8	30	20	40-120 @ .4/2	.5 @ .4/.04	1.5 @ .4/2	.25 @ 60	7.5	10	100	500
2N1184B	TO-8	40	20	40-120 @ .4/2	.5 @ .4/.04	1.5 @ .4/2	.25 @ 80	7.5	10	100	500
2N1755	MS7	25	30	30-75 @ .5/2	.7 @ 3/3	1 @ 3/3	3 @ 40	28	2.5	95	
2N1756	MS7	40	30	30-75 @ .5/2	.7 @ 3/3	1 @ 3/3	3 @ 60	28	2.5	95	
2N1757	MS7	55	30	30-75 @ .5/2	.7 @ 3/3	1 @ 3/3	3 @ 80	28	2.5	95	
2N1758	MS7	65	30	30-75 @ .5/2	.7 @ 3/3	1 @ 3/3	3 @ 100	28	2.5	95	
2N1759	MS7	25	30	60-150 @ .5/2	.5 @ 3/3	.8 @ 3/3	3 @ 40	28	2.5	95	
2N1760	MS7	40	30	60-150 @ .5/2	.5 @ 3/3	.8 @ 3/3	3 @ 60	28	2.5	95	
2N1761	MS7	55	30	60-150 @ .5/2	.5 @ 3/3	.8 @ 3/3	3 @ 80	28	2.5	95	
2N1762	MS7	25	30	60-150 @ .5/2	.5 @ 3/3	.8 @ 3/3	3 @ 40	28	2.5	95	
2N2067	MS7	25	20	20-100 @ .5/14	.7 @ 1/1	.7 @ .5/14	3 @ 40	28	2.5	95	
2N2068	MS7	55	20	20-100 @ .5/14	.7 @ 1/1	.7 @ .5/14	3 @ 80	28	2.5	95	

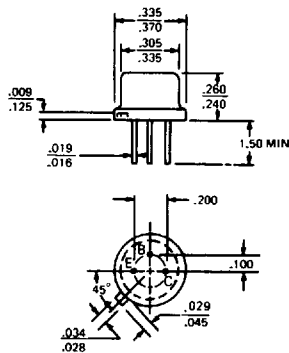
Type Number	Case Type	NPN Complement	$V_{CE0(max)}$ V	V_{EBO} V	h_{FE} @ I_C/V_{CE} (Min-Max @ A/V)	$V_{CE(max)}$ @ I_C/I_B (V @ A/A)	V_{BE} @ I_C/V_{CE} (V @ A/V)	I_{CEV} @ V_{CE} (mA @ V)	$P_D @$ $T_C = 25^\circ C$ (watts)	θ_{JC} ($^\circ C/W$)	$T_{J(max)}$ ($^\circ C$)
3 AMP GERMANIUM PNP											
2N156	TO-13		30(V_{CES})	15	>25 @ .5/2	.75 @ 1/.15	.7 @ .5/2	1 @ 30	25	3.0	100
2N158	TO-13		60(V_{CES})	30	>21 @ .5/2	.75 @ 1/.1	.85 @ .5/2	1 @ 60	25	3.0	100
2N158A	TO-13		60	30	>21 @ .5/2	.75 @ 1/.15	.85 @ .5/2	1 @ 80	25	3.0	100
2N1078	TO-13	2N1332	60(V_{CES})	15	>40 @ .5/2	1 @ 1/1	1.1 @ .5/2	1.5 @ 60	20	3.0	85
2N1328	TO-13	2N1329	30(V_{CES})	15	>40 @ .5/2	1 @ 1/1	.9 @ .5/2	1.5 @ 35	20	3.0	85
2N1331	TO-13	2N1334	80(V_{CES})	15	>40 @ .5/2	1 @ 1/1	1.2 @ .5/2	1.5 @ 80	20	3.0	85
2N1333	TO-13		100(V_{CES})	15	>40 @ .5/2	1 @ 1/1	1.2 @ .5/2	1.5 @ 100	20	3.0	85

Type Number	Case Type	PNP Complement	$V_{CE0(max)}$ V	V_{EBO} V	h_{FE} @ I_C/V_{CE} (Min-Max @ A/V)	$V_{CE(max)}$ @ I_C/I_B (V @ A/A)	V_{BE} @ I_C/V_{CE} (V @ A/V)	I_{CEV} @ V_{CE} (mA @ V)	$P_D @$ $T_C = 25^\circ C$ (watts)	θ_{JC} ($^\circ C/W$)	$T_{J(max)}$ ($^\circ C$)
3 AMP GERMANIUM NPN											
2N1329	TO-13	2N1328	30(V_{CES})	15	>30 @ .5/2	1 @ 1/.135	1 @ .5/2	1 @ 35	25	3.0	100
2N1330	TO-13		45(V_{CES})	15	>30 @ .5/2	1 @ 1/.135	1 @ .5/2	2 @ 60	25	3.0	100
2N1332	TO-13	2N1078	60(V_{CES})	15	>30 @ .5/2	1 @ 1/.135	1 @ .5/2	3 @ 80	25	3.0	100
2N1334	TO-13	2N1331	80(V_{CES})	15	>30 @ .5/2	1 @ 1/.135	1 @ .5/2	4 @ 100	25	3.0	100
2N1321	TO-10	2N1320	30(V_{CES})	15	>30 @ .5/2	1 @ 1/.135	1 @ .5/2	1 @ 35	25	3.0	100
2N1323	TO-10		45(V_{CES})	15	>30 @ .5/2	1 @ 1/.135	1 @ .5/2	1 @ 60	25	3.0	100
2N1325	TO-10	2N1322	60(V_{CES})	15	>30 @ .5/2	1 @ 1/.135	1 @ .5/2	1 @ 80	25	3.0	100
2N1327	TO-10	2N1324	80(V_{CES})	15	>30 @ .5/2	1 @ 1/.135	1 @ .5/2	1 @ 100	25	3.0	100
2N1218	TO-3		20	15	30-120 @ 1/1.5	1 @ 1/.05	.5-1.5 @ 1/1.5	1 @ 30	20	2.75	100
2N1292	TO-3	2N1291	30(V_{CES})	15	>30 @ .5/2	1 @ 1/.135	1 @ .5/2	1 @ 35	25	3.0	100
2N1294	TO-3		45(V_{CES})	15	>30 @ .5/2	1 @ 1/.135	1 @ .5/2	2 @ 60	25	3.0	100
2N1296	TO-3	2N1293	60(V_{CES})	15	>30 @ .5/2	1 @ 1/.135	1 @ .5/2	3 @ 80	25	3.0	100
2N1298	TO-3	2N1295	80(V_{CES})	15	>30 @ .5/2	1 @ 1/.135	1 @ .5/2	4 @ 100	25	3.0	100

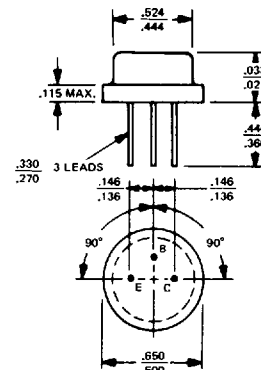
GERMANIUM POWER TRANSISTORS

CASE OUTLINE DRAWINGS & DIMENSIONS

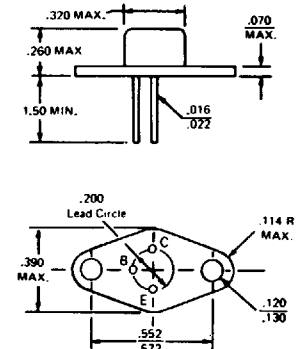
TO-5



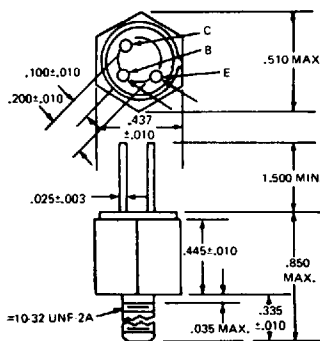
TO-8



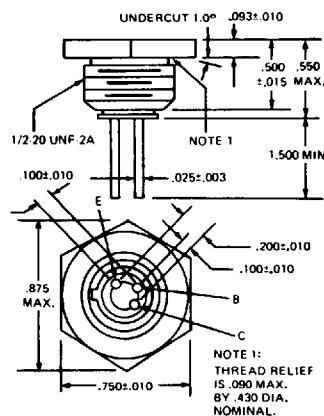
TO-37



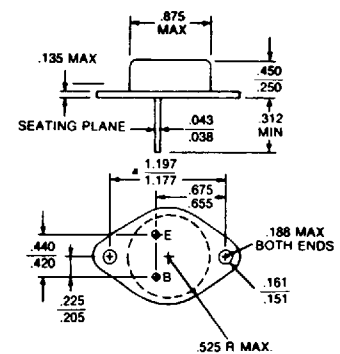
MT-27



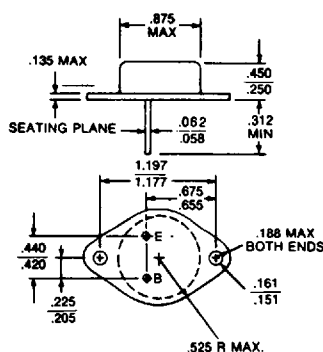
MT-28



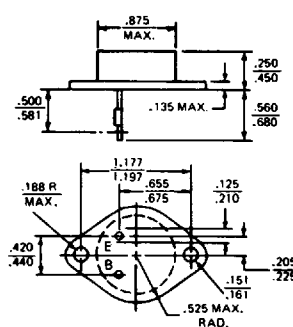
TO-3



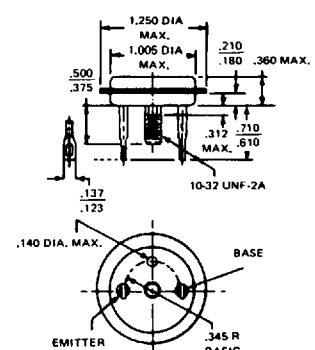
MODIFIED TO-3
(60 mil pins)



TO-41



TO-36



CASE OUTLINE DRAWINGS & DIMENSIONS

[illegible]

Technical drawing of a mechanical part, likely a bracket or base plate, showing top and side views with dimensions in inches.

Top View Dimensions:

- Overall width: 6.20 MAX
- Slot width: .570
- Slot depth: .360 MIN
- Slot position from left edge: .470, .500
- Slot position from right edge: .250, .340
- Slot width at bottom: .028, .034
- Slot width at top: .050 MAX
- Slot width at bottom center: .050, .075
- Slot width at bottom right: .190, .210, .093, .107
- Slot width at bottom left: .145 R MAX
- Slot width at bottom right: .142, .152
- Slot width at bottom center: .350 R MAX

Side View Dimensions:

- Overall height: .958
- Slot depth: .962
- Slot width: .570
- Slot width at bottom: .590

[illegible][illegible]

The drawing shows a 2N4350 JFET with the following dimensions:

- Side View Dimensions:**
 - Gate lead thread: 3/8-24UNF-2A
 - Gate lead diameter: .093
 - Gate lead height: .82
 - Drain lead diameter: .09 DIA. (3)
 - Drain lead height: .72
 - Source lead diameter: 1.26 DIA.
 - Source lead height: .53
- Top View Dimensions:**
 - Emitter diameter: .02
 - Collector diameter: .29
 - Base diameter: .58

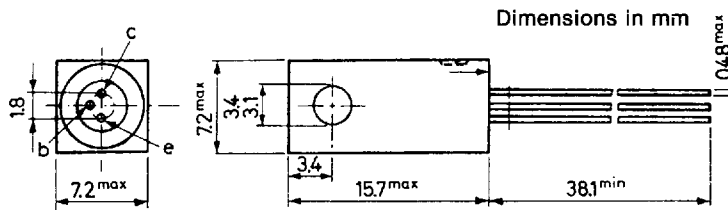
Technical drawing of a 28UNF-2A threaded plug. The drawing shows a side view and a top view. The side view includes dimensions: .100, .50, .04, .390 ± .025, .340 ± .025, 1.110 MAX., and .090 MAX. The top view includes dimensions: .343 REF., .312 REF., .290 REF., and .112 REF. The drawing is labeled #1/4 - 28UNF-2A.

Technical drawing of the 8-32NC-2A plug gage. The drawing shows a top view and a side view. The top view is a circle with a diameter of .152. It has two threaded holes, each with a diameter of .054 and a depth of .107. The side view shows a plug with a diameter of .060 and a length of .250. The plug is labeled '8-32NC-2A'.

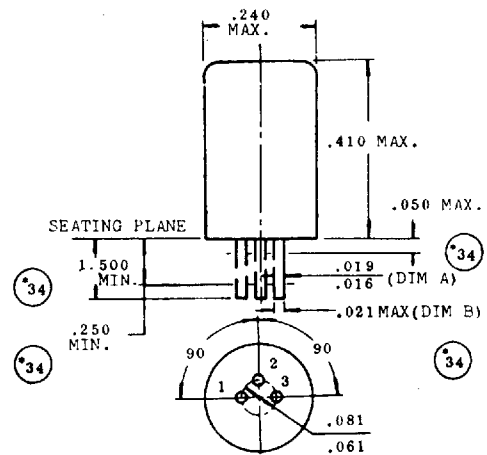
GERMANIUM POWER TRANSISTORS

CASE OUTLINE DRAWINGS & DIMENSIONS

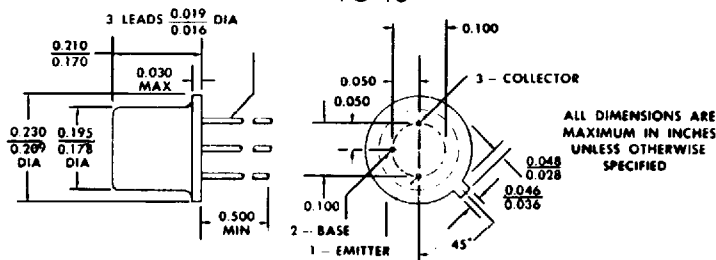
NS257



TO-1



TO-18



THE COLLECTOR IS ELECTRICAL CONTACT WITH THE CASE.

ALL JEDEC TO-18 DIMENSIONS AND NOTES ARE APPLICABLE.



GERMANIUM POWER DEVICES CORP.

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