

GERMANIUM POWER TRANSISTORS

Type Number	Case Type	V_{CRO} V	V_{CEO} V	V_{ERO} V	V_{CER} V	V_{CES} V	CURRENT GAIN				SATURATION VOLTAGES				θ_{J-C} °C/W
							Min.	h_{FE} Max.	$V_{CE} @ I_C$ V	A	$V_{CE(1)}$ V	$V_{BE(1)}$ V	$I_C @ I_B$ A	A	

6 AMP GERMANIUM PNP (Cont.)

2N1137B	TO-3	100	65	15.0	75		75	150	5.0	3.0	1.0		3.0	.300	1.20
2N1138	TO-3	60	25	15.0	35		100	200	5.0	3.0	1.0		3.0	.300	1.20
2N1138A	TO-3	90	55	15.0	65		100	200	5.0	3.0	1.0		3.0	.300	1.20
2N1138B	TO-3	100	65	15.0	75		100	200	5.0	3.0	1.0		3.0	.300	1.20

7 AMP GERMANIUM PNP

2N250A	TO-3	40		20.0			25	100	1.5	3.0	.70	1.00	3.0	.150	.80
2N251A	TO-3	60		20.0			25	100	1.5	3.0	.70	1.00	3.0	.150	.80
2N456	TO-3	40		20.0			10		1.5	5.0	.50		5.0	.500	.50
2N456A	TO-3	40	20	20.0			30	90	1.5	5.0	.50		5.0	.500	.50
2N456B	TO-3	40		30.0		50	30	90	1.5	5.0	.50		5.0	.500	.50
2N457	TO-3	60		20.0			10		1.5	5.0	.50		5.0	.500	.50
2N457A	TO-3	60	30	20.0			30	90	1.5	5.0	.50		5.0	.500	.50
2N457B	TO-3	60		30.0		60	30	90	1.5	5.0	.50		5.0	.500	.50
2N458	TO-3	80		20.0			10		1.5	5.0	.50		5.0	.500	.50
2N458A	TO-3	80	40	20.0			30	90	1.5	5.0	.50		5.0	.500	.50
2N458B	TO-3	80		30.0		65	30	90	1.5	5.0	.50		5.0	.500	.50
2N637	TO-3	60		15.0	35		30	60	5.0	3.0	.80		3.0	.300	1.50
2N637A	TO-3	90		15.0	65		30	60	5.0	3.0	.80		3.0	.300	1.50
2N637B	TO-3	100		15.0	75		30	60	5.0	3.0	.80		3.0	.300	1.50
2N638	TO-3	60		15.0	35		20	40	5.0	3.0	.15		3.0	.300	2.00
2N638A	TO-3	90		15.0	65		20	40	5.0	3.0	.15		3.0	.300	2.00
2N638B	TO-3	100		15.0	75		20	40	5.0	3.0	.15		3.0	.300	2.00
2N1021	TO-3	100		20.0		100	30	90	1.5	5.0	.50		5.0	.500	.50
2N1021A	TO-3	100	50	30.0		70	30	90	1.5	5.0	.50		5.0	.500	.50
2N1022	TO-3	120		20.0		120	30	90	1.5	5.0	.50		5.0	.500	.50
2N1022A	TO-3	120	55	30.0		75	30	90	2.0	5.0	.50		5.0	.500	.50
2N1160	TO-3	80	60	20.0			20	50	2.0	5.0	1.00		5.0	.500	1.20
2N3611	TO-3	40		20.0			30	35	70	2.0	.25		3.0	.300	.90
2N3612	TO-3	60		30.0			45	35	70	2.0	.25		3.0	.300	.90
2N3613	TO-3	40		20.0			30	60	120	2.0	.25		3.0	.300	.90
2N3614	TO-3	60		30.0		45	60	120	2.0	3.0	.25		3.0	.300	.90
2N3615	TO-3	80		40.0		60	30	60	2.0	3.0	.25		3.0	.300	.90
2N3616	TO-3	100		50.0		75	30	60	2.0	3.0	.25		3.0	.300	.90
2N3617	TO-3	80		40.0		60	45	90	2.0	3.0	.25		3.0	.300	.90
2N3618	TO-3	100		50.0		75	45	90	2.0	3.0	.25		3.0	.300	.90

Type Number	Case Type	$V_{CRO(max)}$ V	V_{EBO} V	h_{FE} @ I_C/V_{CE} (Min-Max @A/V)	$V_{CE(1)}$ @ 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} (°C/W)	$T_{J(max)}$ (°C)	f_T (KHz)
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7 AMP GERMANIUM PNP

2N5887	TO-66	15	20	20-350@.5/2	.4@7/1.4	1.2@7/2	5@20	57	1.5	110	250
2N5888	TO-66	25	20	15-350@.5/2	.4@7/1.4	1.2@7/2	5@30	57	1.5	110	250
2N5889	TO-66	25	20	30-70@.5/2	.4@7/1.4	1.2@7/2	5@30	57	1.5	110	250
2N5890	TO-66	35	20	30-70@.5/2	.4@7/1.4	1.2@7/2	5@45	57	1.5	110	250
2N5891	TO-66	45	20	30-70@.5/2	.4@7/1.4	1.2@7/2	5@60	57	1.5	110	250
2N5892	TO-66	60	20	30-70@.5/2	.4@7/1.4	1.2@7/2	5@75	57	1.5	110	250
2N5893	TO-66	25	0	60-120@.5/2	.4@7/1.4	1.2@7/2	5@30	57	1.5	110	250
2N5894	TO-66	35	20	60-120@.5/2	.4@7/1.4	1.2@7/2	5@45	57	1.5	110	250
2N5895	TO-66	45	20	60-120@.5/2	.4@7/1.4	1.2@7/2	5@60	57	1.5	110	250
2N5896	TO-66	60	20	60-120@.5/2	.4@7/1.4	1.2@7/2	5@75	57	1.5	110	250
2N5897	TO-66	25	20	100-200@.5/2	.4@7/1.4	1.2@7/2	5@30	57	1.5	110	250
2N5898	TO-66	35	20	100-200@.5/2	.4@7/1.4	1.2@7/2	5@45	57	1.5	110	250
2N5899	TO-66	45	20	100-200@.5/2	.4@7/1.4	1.2@7/2	5@60	57	1.5	110	250
2N5900	TO-66	60	20	100-200@.5/2	.4@7/1.4	1.2@7/2	5@75	57	1.5	110	250
2N5901	TO-66	25	20	175-350@.5/2	.4@7/1.4	1.2@7/2	5@30	57	1.5	110	250

Type Number	Case Type	V_{CBO} V	V_{CEO} V	V_{EBO} V	V_{CER} V	V_{CES} V	CURRENT GAIN				SATURATION VOLTAGES				θ_{J-C} °C/W
							Min.	h_{FE} Max.	V_{CE} @ I_C V	A	$V_{CE(1)}$ V	$V_{BE(1)}$ V	I_C @ I_B A	A	

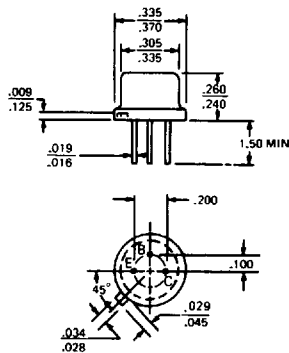
10 AMP GERMANIUM PNP

DA3F3	MT-7	60	35				25	9	22	2.0	10.0		1.0	2.000	.40
2N574	MT-7	60	55				55	9	22	2.0	10.0		1.0	2.000	.40
2N574A	MT-7	80	60				70	9	22	2.0	10.0		1.0	2.000	.40
2N627	TO-3	40		20.0			30	10	30	2.0	10.0	1.00	10.0	1.000	.80
2N628	TO-3	60		30.0			45	10	30	2.0	10.0	1.00	10.0	1.000	.80

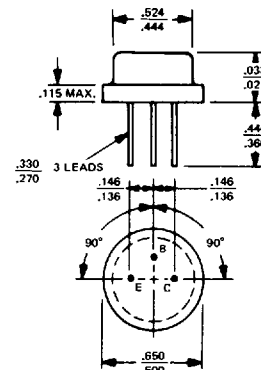
GERMANIUM POWER TRANSISTORS

CASE OUTLINE DRAWINGS & DIMENSIONS

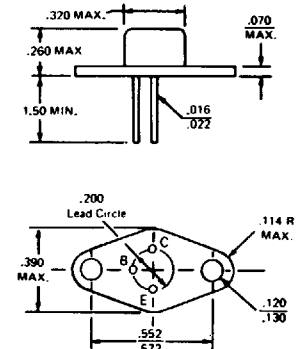
TO-5



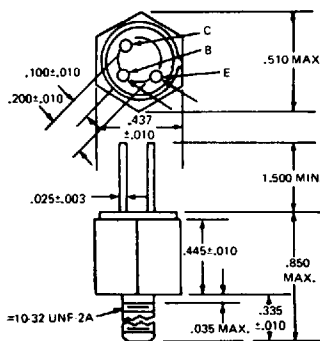
TO-8



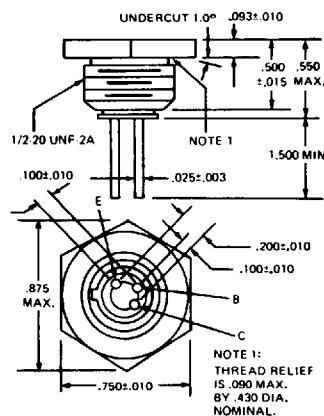
TO-37



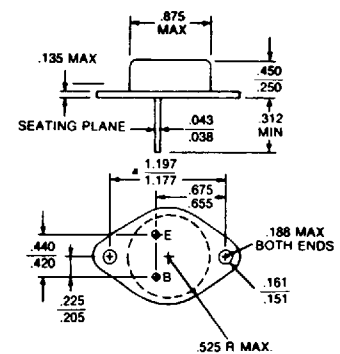
MT-27



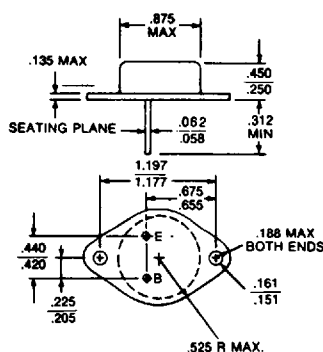
MT-28



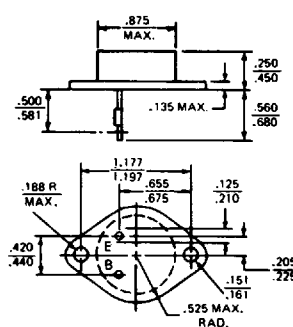
TO-3



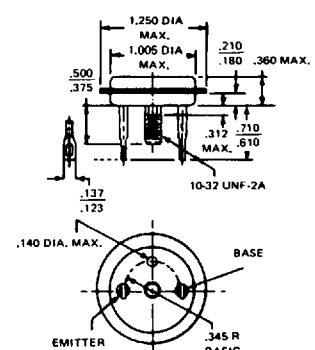
MODIFIED TO-3
(60 mil pins)



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
- Slot width at bottom left: .093, .107
- Slot width at bottom center: .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]

Technical drawing of the 1N4148 diode showing side and top views with dimensions.

Side View Dimensions:

- Top flange thickness: .25
- Threaded section length: .09
- Bottom flange thickness: .25
- Lead length: .53
- Lead diameter: .09 DIA. (3)
- Thread specification: 1-1/4 - 16UN - 2A
- Component: HEX NUT

Top View Dimensions:

- Hexagonal base width: .58
- Base thickness: .02
- Collector diameter: .29
- Emitter diameter: .29
- Base to emitter distance: 1.5
- Labels: BASE, COLLECTOR, EMITTER

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

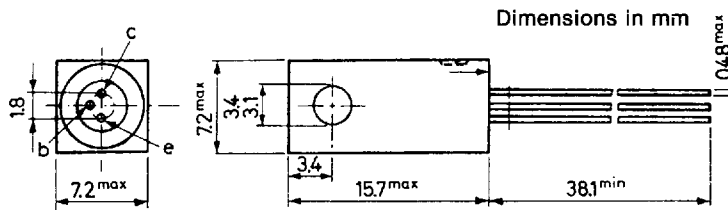
Technical drawing of a 28UNF-2A threaded plug. The drawing shows a side view and a top view. The side view includes dimensions: .100, .50, .04, .390 ± .025, .340 ± .025, 1.110 MAX., and .090 MAX. The top view includes dimensions: .343 REF., .312 REF., .290 REF., and .112 REF. The drawing is labeled #1/4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

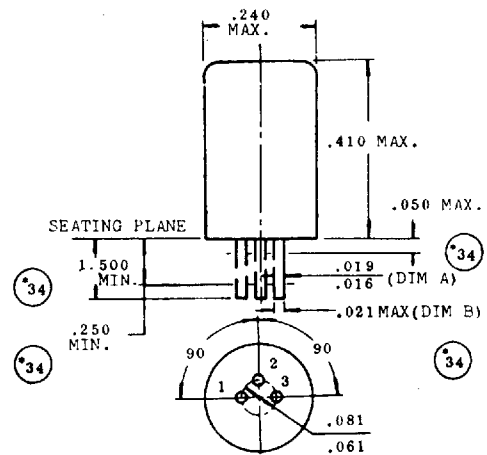
GERMANIUM POWER TRANSISTORS

CASE OUTLINE DRAWINGS & DIMENSIONS

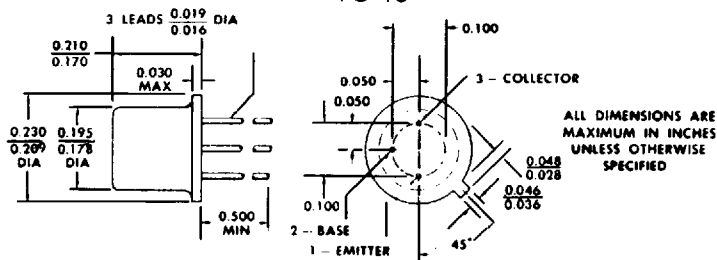
NS257



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.

300 Brickstone Square · York Street · P.O. Box 3065
Shawsheen Village Station · Andover, Massachusetts 01810
Telephone (508) 475-5982 · FAX (508) 470-1512

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