

GERMANIUM SMALL SIGNAL TRANSISTORS

PRO ELECTRON TYPES

Type	Polar- ity	V _{CB0} V Max	V _{EB0} V Max	V _{CE} V Max		@ V _{CB} V	I _{CB0} μA Max	h _{FE} Min Max	@ I _C mA	Cob pf Max	fab MHz Min	Pack Outline	Power Dissipation @25°C MW
AC107 AC116 AC117	P P P	15 30 32	12 10 10	18 18 18		6 6 6	8 18	35- 50-140 40-	300 ¹ 20 150	21 ²		TO-1 NS257 NS257	80 145 260
AC121—IV AC121—V AC121—VI AC121—VII	P P P P	20 20 20 20	10 10 10 10	20 20 20 20				30-60 50-100 75-150 125-250	100 100 100 100	40 40 40 40	1.5 ² 1.5 ² 1.5 ² 1.5 ²	TO-1 TO-1 TO-1 TO-1	900 900 900 900
AC122 AC122/30 AC123 AC124 AC125	P P P P P	30 45 45 45 32	18 12 12 10 10	18 32 32 32 12		6 6 6 6 10	8 8 8 18 10	40-200 40-200 50-140 40-170 50-	2 ¹ 2 ¹ 20 150 2	21 ² 21 ² 21 ² 50		TO-1 TO-1 NS257 NS257 TO-1	130 130 145 260 500
AC126 AC127 AC128 AC128K	P N P P	32 32 32 32	10 10 10 10	12 12 16 16		10 10 10 10	10 10 10 10	65- 50- 55-175 55-175	2 500 50 50	50 70 ² 100 100	1.7 2.5 1.0 1.0	TO-1 TO-1 TO-1 NS257	500 340 1,000 1,000
AC130 AC131 AC132 AC138 AC139	N P P P P	20 30 32 32 32	10 10 10 10 10	18 12 20 20 20		6 0.5 10 10 10	18 10 15 15 15	40- 135 ² - 30- 40-160	150 20 5 ¹ 400	40 ²	2.0 1.3	TO-1 TO-1 TO-1 TO-1 TO-1	212 500 720 720
AC141 AC142 AC142K AC151 AC152	N P P P P	32 32 32 32 32	10 10 10 10 10	18 20 20 2Y 2Y		10 10 10 10 0.5	35 15 15 10 10	40-160 40-160 40-160 30 ¹ - 30-150	400 400 400 2 100	27 ² 40	1.5 ² 1.5 ²	TO-1 TO-1 NS257 TO-1 TO-1	720 720 860 900 900
AC153 AC153K AC162 AC163	P P P P	32 32 32 32	10 10 10 10	18 18 2Y 2Y		10 10 10 10	10 10 10 10	50-250 50-250 100 ² 65-	300 300 50 2	100 100 40 40	1.0 1.0 1.3 1.7	TO-1 NS257 TO-1 TO-1	1,000 1,000 900 900
AC173 AC176 AC178 AC179 AC180	P N P N P	32 32 20 20 32	10 10 10 10 20	2Y 18 15 15 16		10 6 6	35 35 10 ²	50- 50-250 60- 60- 50-250	2 ¹ 300 150 150 600	100 ²	1.0 2.5 ²	TO-1 TO-1 NS257 NS257 TO-1	200 700 180 180 600
AC180K AC181 AC181K AC182 AC183	P N N P N	32 32 32 32 32	20 20 20 20 20	16 16 16 18 16				50-250 50-250 50-250 50- 50-	600 600 600 1 ¹ 2 ¹	2.5 ² 4.5 ² 4.5 ² 4.0 ² 4.0 ²	NS257 TO-1 NS257 TO-1 TO-1	2,500 600 2,500 200 250	
AC184 AC185 AC187 AC187K AC188	P N N N P	32 32 25 25 25	20 20 10 10 10	16 16 15 15 15		10 10 10	35 35 15	50-250 50-250 100-500 100-500 100-500	300 300 300 300 300	180 180 110	2.5 ² 2.5 ² 1.0 1.0 1.0	TO-1 TO-1 TO-1 NS257 TO-1	600 600 1,000 1,000 1,000
AC188K AC193 AC193K AC194 AC194K	P P P N N	25 32 32 32 32	10 10 10 10 10	15 15 15 15 15		10 10 10 10 10	15 15 15 35 35	100-500 90-400 90-400 90-400 90-400	300 400 400 400 400	100 40 ² 40 ² 80 ² 80 ²	1.0 3.0 ² 3.0 ² 5.0 ² 5.0 ²	NS257 TO-1 TO-1 TO-1 TO-1	1,000 220 260 220 260
ACY11 ACY14 ACY17 ACY18 ACY19	P P 	32 32 70 50 50	16 16 12 12 12	30 30 32 30 30		5 5 6 6 6	12 12 10 10 10	38- 54- 50-150 40-120 80-250	10 10 300 300 300	35 35 40 40 40	0.4 0.4 1.0 1.0 1.3	TO-1 TO-1 TO-5 TO-5 TO-5	150 150 200 200 200
ACY20 ACY21 ACY22 ACY23 ACY27	 P P	40 40 20 32 40	12 12 12 16 30	20 20 15 30 20		6 6 6 30	10 10 10 12	50-145 90-250 30-300 50- 20-55	50 50 300 1 ¹ 1 ¹	40 40 40 0.5 40	1.0 1.3 1.0 0.5 1.0 ²	TO-5 TO-5 TO-5 TO-1 TO-1	200 200 200 900 200
ACY28 ACY29 ACY30 ACY31 ACY32	P P P P P	40 40 40 40 32	30 30 40 20 16	15 15 20 30 30		30 30 30 12 10	12 12 12 5 10	45-150 45-150 60-200 35-70 50-150	1 ¹ 1 ¹ 1 ¹ 1 ¹ 1 ¹	40 40 40 40 27 ²	1.0 ² 1.0 ² 1.0 ² 1.0 ² 0.5	TO-1 TO-1 TO-1 TO-1 TO-1	200 200 200 200 900

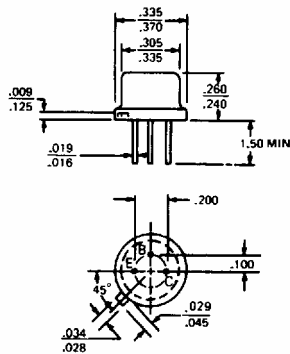
¹hfe

²typical

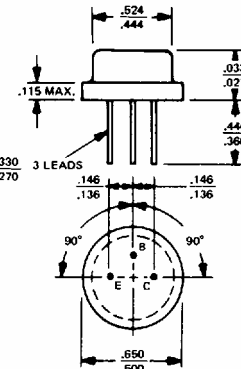
GERMANIUM POWER TRANSISTORS

CASE OUTLINE DRAWINGS & DIMENSIONS

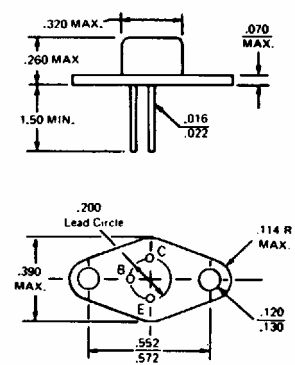
TO-5



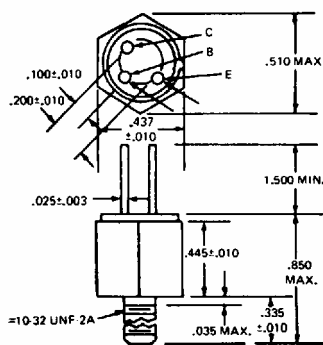
TO-8



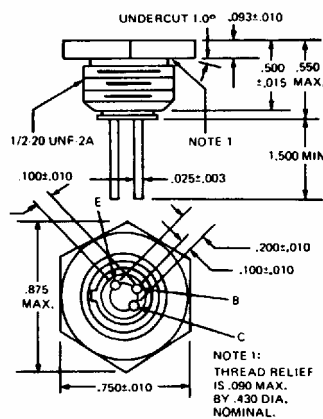
TO-37



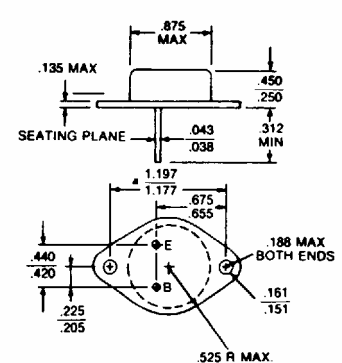
MT-27



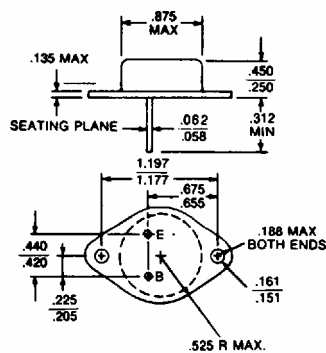
MT-28



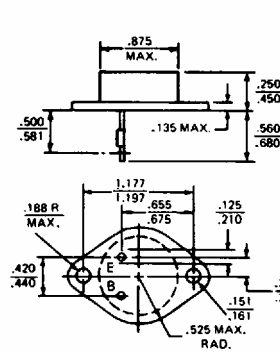
TO-3



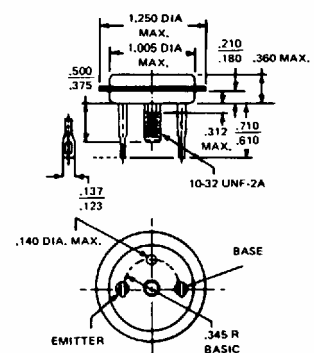
MODIFIED TO-3
(60 mil pins)



TO-41



TO-36



CASE OUTLINE DRAWINGS & DIMENSIONS

The drawing shows a mechanical part with the following dimensions and features:

- Top View:**
 - Overall width: 620 MAX.
 - Top edge features: 470, 500, and .250.
 - Bottom edge features: .050 MAX, .050, .075, .028, .034, .360 MIN, and .340.
 - Internal features: .190, .093, .210, .107, .145 R MAX, .142, .152, and .350 R MAX.
 - Center point labeled 'E'.
- Front View:**
 - Overall height: 958.
 - Internal features: 962, 570, and 590.

[illegible]

HEX NUT

1-1/4 - 16UN - 2A

.25

.09

.75

.25

.53

.09 DIA. (3)

.58

.02

1.5

.29

BASE

COLLECTOR

EMITTER

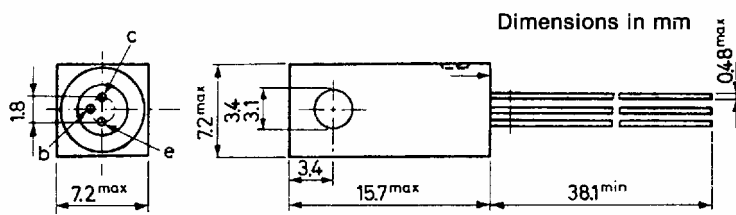
The drawing shows the mechanical specifications of the 2N4350A transistor. The side view (top) shows a 3/8-24UNF-2A threaded base with a height of .82 inches. The main body has a height of .72 inches and a base diameter of 1.26 inches. The emitter and collector leads are .53 inches long. The top view (bottom) shows a circular package with a diameter of .29 inches. The base is at the top, emitter is on the right, and collector is on the left. The drawing is labeled with dimensions and part numbers.

Technical drawing of the B-32NC-2A connector. The top view shows a circular connector with three pins labeled 1, 2, and 3. Dimensions include a diameter of .152, a pin diameter of .054, and a pin-to-pin distance of .107. The side view shows the connector's profile with a total height of .625, a pin height of .250, a base height of .360, and a mounting hole diameter of .060. The part number B-32NC-2A is indicated at the bottom.

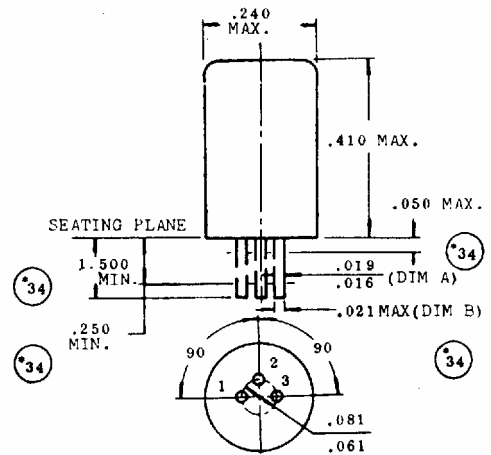
GERMANIUM POWER TRANSISTORS

CASE OUTLINE DRAWINGS & DIMENSIONS

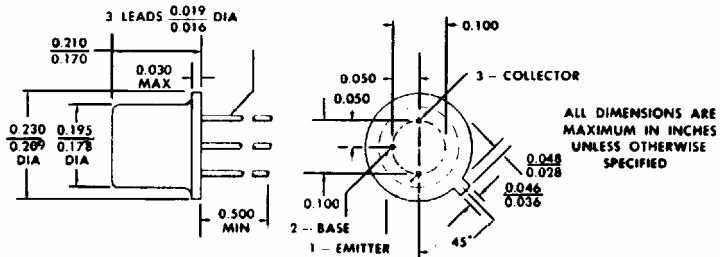
NS257



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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