

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		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	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		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	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

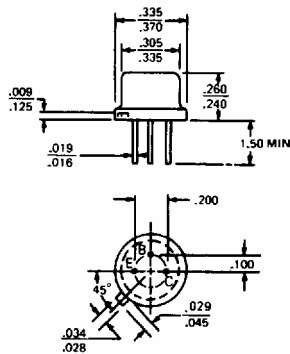
¹hfe

²typical

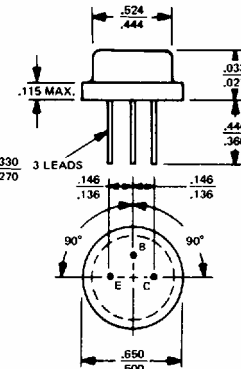
GERMANIUM POWER TRANSISTORS

CASE OUTLINE DRAWINGS & DIMENSIONS

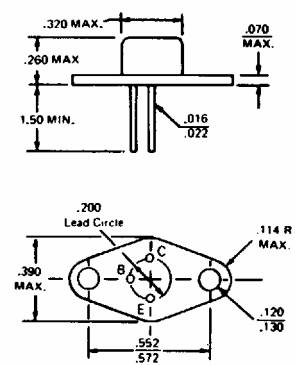
TO-5



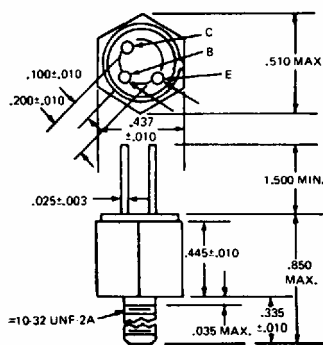
TO-8



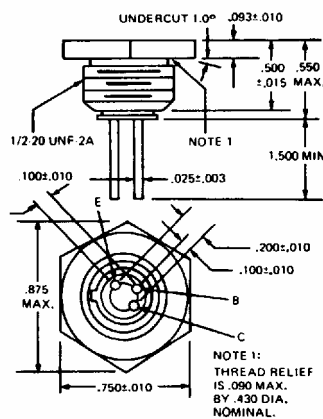
TO-37



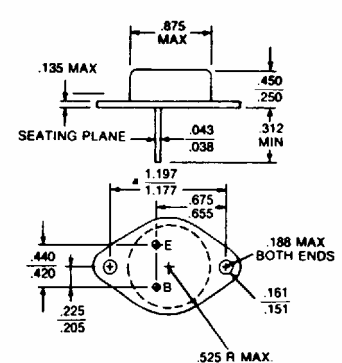
MT-27



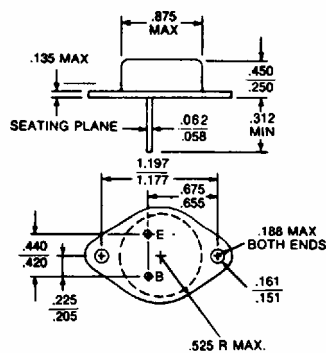
MT-28



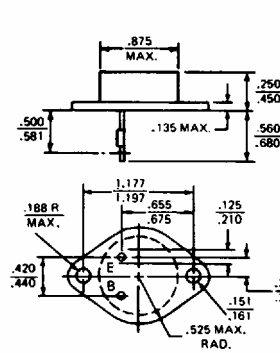
TO-3



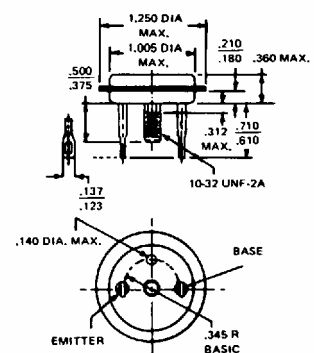
MODIFIED TO-3
(60 mil pins)



TO-41



TO-36



CASE OUTLINE DRAWINGS & DIMENSIONS

430 DIA
415

28 UNF-28
250 MIN
FULL THREAD

725
690

970
930

SOLDER LUGS

550 DIA
530

The technical drawing shows two views of a mechanical component:

- Top View (Left):** A rectangular plate with overall dimensions of .620 MAX by .500. It features a central raised section with a width of .470 and a height of .250. The base has a thickness of .340. There are fillet radii of .050 MAX at the corners and .028 at the edges of the raised section.
- Front View (Right):** Shows the profile of the part with a total width of .590 and a height of .570. It includes a central slot with a width of .360 MIN and a depth of .034. The bottom edge has a radius of .145 R MAX. The side view also shows a radius of .142 and a distance of .152 from the centerline to the outer edge.
- Bottom View (Below Front View):** Shows the underside of the part with a central square feature labeled E, B, and C. It has corner radii of .190 and .093, and a central hole with a diameter of .107.

[illegible]

The drawing shows the mechanical specifications of the 2N4350A transistor. The side view (top) shows a package with a threaded base for mounting, labeled 3/8-24UNF-2A. The base has a diameter of .09 DIA. (31). The main body has a diameter of 1.26 DIA. The top view (bottom) shows the three electrical leads: the BASE, COLLECTOR, and EMITTER. The base lead has a diameter of .02, and the collector and emitter leads have a diameter of .29. The overall height of the package is .82.

Technical drawing of a 2BUNF-2A component. The top view shows a circular base with four mounting holes. Dimensions include: .343 REF. (top), .312 REF. (right), .290 REF. (bottom), .112 REF. (left), .390 ± .025 (center), .340 ± .025 (right), .50 (top), .100 (top), .04 (top), .090 MAX. (left), .1110 MAX. (center), and .390 ± .025 (bottom). The side view shows a threaded section with a dimension of .112 REF. and a note #1/4 - 2BUNF-2A.

SEATING PLANE

1.25 MAX.

.275
.500

.100
.312

.090
.140

.1658
.1697

.040
.095

.375
.500

.610
.710

.990 MIN.

90°

.335
.355

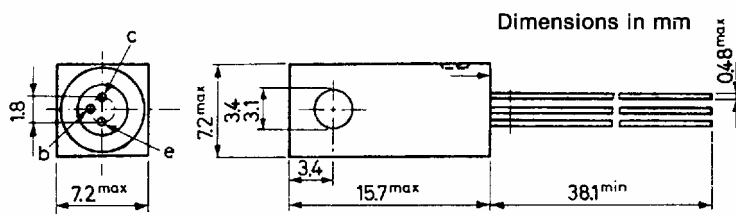
1 2

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.

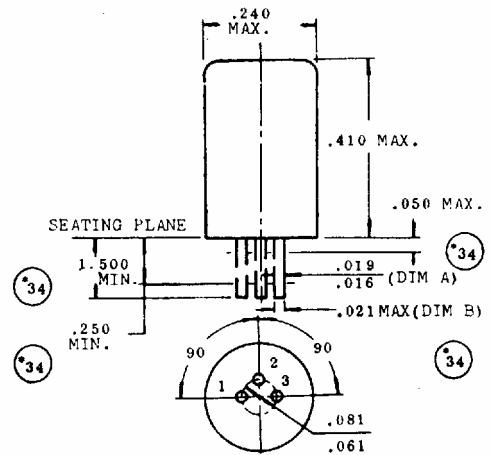
GERMANIUM POWER TRANSISTORS

CASE OUTLINE DRAWINGS & DIMENSIONS

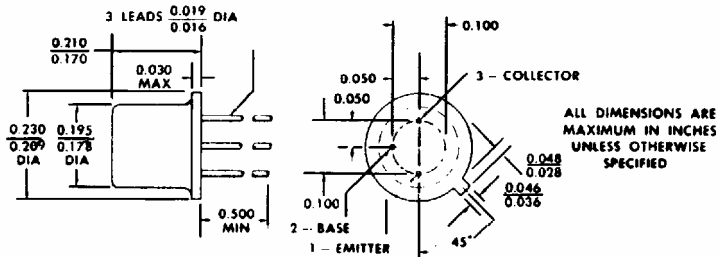
NS257



TO-1



TO-18



THE COLLECTOR IS ELECTRICAL CONTACT WITH THE CASE.

ALL JEDEC TO-18 DIMENSIONS AND NOTES ARE APPLICABLE.



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