

GERMANIUM SMALL SIGNAL TRANSISTORS

PRO ELECTRON TYPES

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

¹hfe

²typical

CASE OUTLINE DRAWINGS & DIMENSIONS

UNDERCUT 1.0° .093±.010

1/2-20 UNF 2A

NOTE 1

1.500 MIN.

100±.010

.025±.003

.500 ±.015 MAX.

.550 ±.010

.875 MAX.

.750±.010

.200±.010

.100±.010

NOTE 1:
THREAD RELIEF
IS .000 MAX.
BY .430 DIA.
NOMINAL.

Technical drawing of a mechanical part showing two views: a top view and a side view.

Top View Dimensions:

- Overall width: 875 MAX
- Central hole diameter: 312 MIN
- Offset from left edge to hole center: 450
- Offset from right edge to hole center: 250
- Radius of the central hole: 525 R MAX
- Radius of the outer profile: 1.197
- Offset from left edge to outer profile center: 1.177
- Offset from right edge to outer profile center: 675
- Offset from left edge to hole center: 655
- Offset from right edge to hole center: 655
- Offset from left edge to outer profile center: 440
- Offset from right edge to outer profile center: 420
- Offset from left edge to hole center: 225
- Offset from right edge to hole center: 205
- Offset from left edge to hole center: .188 MAX BOTH ENDS
- Offset from right edge to hole center: .161
- Offset from right edge to hole center: .151

Side View Dimensions:

- Overall height: 450
- Height of the central hole: 250
- Thickness of the part: .135 MAX
- Central hole diameter: .043 / .038
- SEATING PLANE is indicated on the side view.

CASE OUTLINE DRAWINGS & DIMENSIONS

Technical drawing of the 28-100 tube. The side view shows a cylindrical body with a threaded top section. Dimensions include a top diameter of 430, a base diameter of 415, a thread specification of 1/4" 28 UNF-28 with a 250 MIN FULL THREAD, a main body height of 725, a base height of 690, and a total height of 970. The base features two solder lugs. The top view shows a circular base with a diameter of 550 and a mounting hole diameter of 530. Four mounting holes are arranged in a circle, with one labeled 'E' and another 'C'.

[illegible]

HEX NUT

1-1/4 - 16UN - 2A

.25

.09

.75

.26

.53

.09 DIA. [3]

.58

.02

1.5

.29

EMITTER

BASE

COLLECTOR

The drawing includes two views of the 2N4350A transistor:

- Side View (Top):** Shows the transistor's profile with the following dimensions:
 - Threaded lead diameter: 3/8-24UNF-2A
 - Lead diameter: .093
 - Overall height: .82
 - Body height: .72
 - Base lead diameter: .09 DIA. (3)
 - Base diameter: 1.26 DIA.
- Top View (Bottom):** Shows the circular base with the following dimensions:
 - Emitter diameter: .02
 - Collector diameter: .29
 - Base diameter: .60

#1/4 - 28UNF-2A

1.00
.50
.390
.090 MAX.
1.110 MAX.
.340 ± .025

.343 REF.
.312 REF.
.290 REF.
.112 REF.

SEATING PLANE

.275
.500

.100
.312

1.25 MAX.

.090
.140

.1658
.1697

.040
.095

.375
.500

.610
.710

.990 MIN.

.335 R
.355

90°

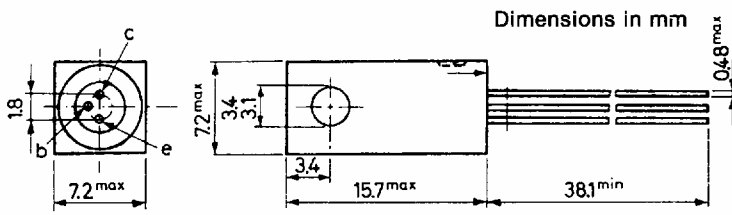
2 1

Technical drawing of a screw. The drawing includes a top view and a side view. The top view shows a circular head with a diameter of .625 inches. The side view shows the screw's profile with a major diameter of .500 inches, a minor diameter of .365 inches, and a thread pitch of .017 inches. The drawing is labeled with dimensions and a note: 8-32NC-2A.

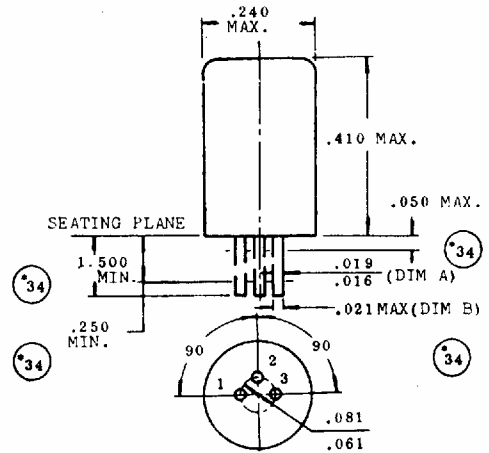
GERMANIUM POWER TRANSISTORS

CASE OUTLINE DRAWINGS & DIMENSIONS

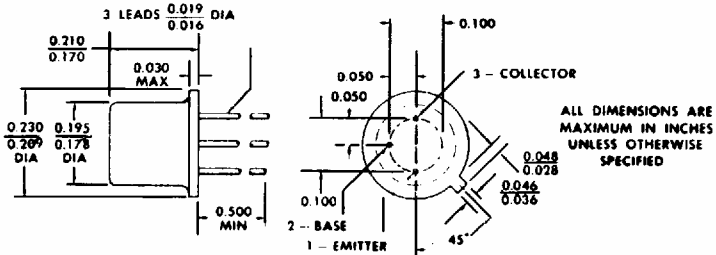
NS257



TO-1



TO-18



THE COLLECTOR IS ELECTRICAL CONTACT WITH THE CASE.

ALL JEDEC TO-18 DIMENSIONS AND NOTES ARE APPLICABLE.



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