

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		1.5 ²	TO-1	900
AC121-V	P	20	10	20				50-100	100		1.5 ²	TO-1	900
AC121-VI	P	20	10	20				75-150	100		1.5 ²	TO-1	900
AC121-VII	P	20	10	20				125-250	100		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	180	1.0	TO-1	1,000
AC187K	N	25	10	15	10	35	100-500	300	180	180	1.0	NS257	1,000
AC188	P	25	10	15	10	15	100-500	300	110	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	3.0 ²	TO-1	220
AC193K	P	32	10	15	10	15	90-400	400	40 ²	3.0 ²	3.0 ²	TO-1	260
AC194	N	32	10	15	10	35	90-400	400	80 ²	5.0 ²	5.0 ²	TO-1	220
AC194K	N	32	10	15	10	35	90-400	400	80 ²	5.0 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

1.00±.010

.025±.003

.500±.015 MAX

.550±.015 MAX

1.500 MIN

E

.875 MAX

.750±.010

.200±.010

.100±.010

B

C

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

Technical drawing of a mechanical part with dimensions and tolerances:

- Top view dimensions:
 - Overall width: $.875 \text{ MAX}$
 - Overall height: $.450$
 - Base thickness: $.250$
 - Seating plane offset: $.135 \text{ MAX}$
 - Internal hole diameter: $.043$
 - Internal hole tolerance: $.038$
 - Internal hole depth: $.312 \text{ MIN}$
- Side view dimensions:
 - Overall width: 1.197
 - Overall height: $.675$
 - Internal hole diameter: $.655$
 - Internal hole tolerance: $.655$
 - Internal hole depth: $.440$
 - Internal hole tolerance: $.420$
 - Internal hole offset: $.225$
 - Internal hole tolerance: $.205$
 - Internal hole offset: $.188 \text{ MAX}$
 - Internal hole tolerance: $.188 \text{ MAX}$
 - Internal hole offset: $.161$
 - Internal hole tolerance: $.151$
 - Internal hole offset: $.525 \text{ R MAX}$
 - Internal hole tolerance: $.525 \text{ R MAX}$

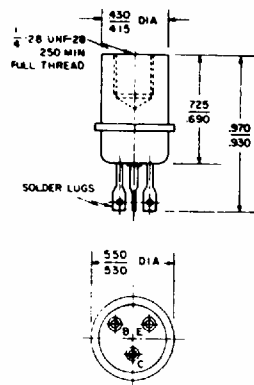
Technical drawing of a mechanical part with dimensions and tolerances:

- Top view dimensions:
 - Overall width: .875 MAX
 - Width of central feature: .450
 - Width of base: .250
 - Width of central feature (bottom): .062
 - Width of base (bottom): .058
 - Width of central feature (bottom): .312 MIN
- Left side view dimensions:
 - Overall height: .135 MAX
 - Seating Plane
- Bottom view dimensions:
 - Overall width: 1.197
 - Width of central feature: 1.177
 - Width of base: .675
 - Width of base (bottom): .656
 - Width of central feature (bottom): .161
 - Width of base (bottom): .151
 - Width of central feature (bottom): .525 R MAX.
- Right side view dimensions:
 - Overall height: .440
 - Height of central feature: .420
 - Height of base: .225
 - Height of base (bottom): .205
- Other features:
 - 188 MAX BOTH ENDS
 - Seating Plane

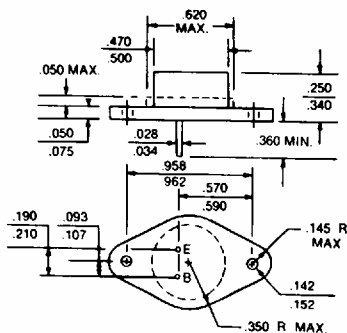
GERMANIUM POWER TRANSISTORS

CASE OUTLINE DRAWINGS & DIMENSIONS

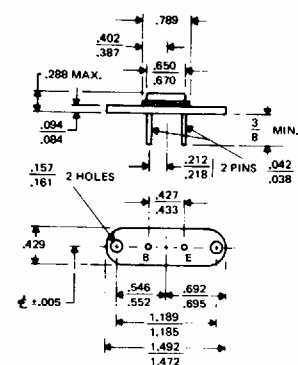
TO-13



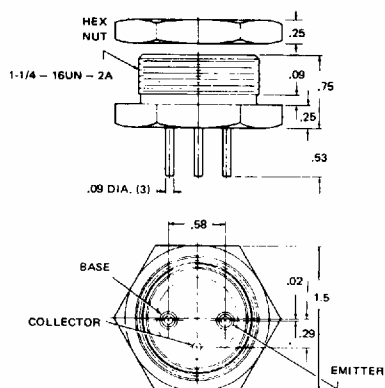
TO-66



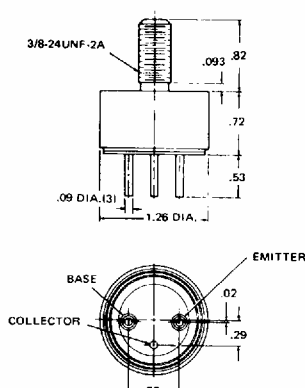
MS-7



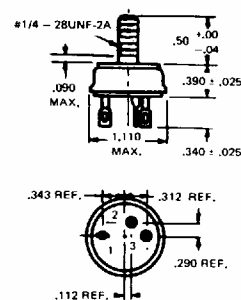
MT-22



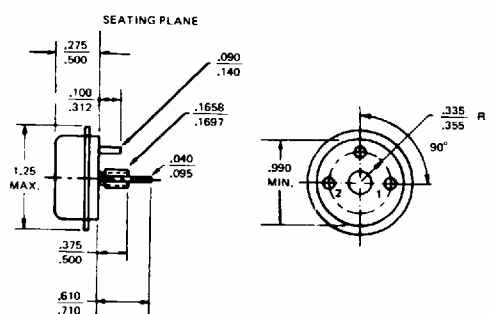
MT-23



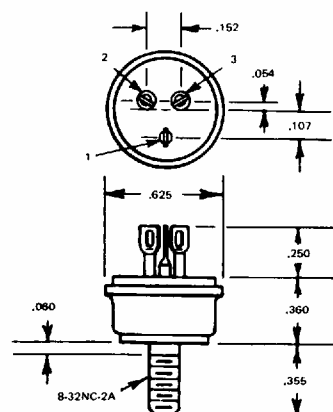
MT-7



TO-68



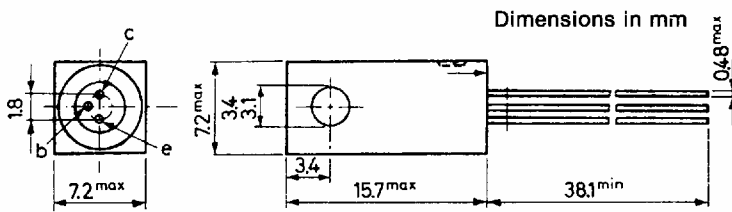
MT-36



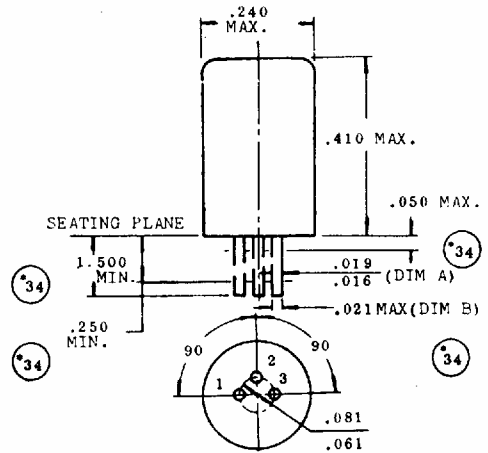
GERMANIUM POWER TRANSISTORS

CASE OUTLINE DRAWINGS & DIMENSIONS

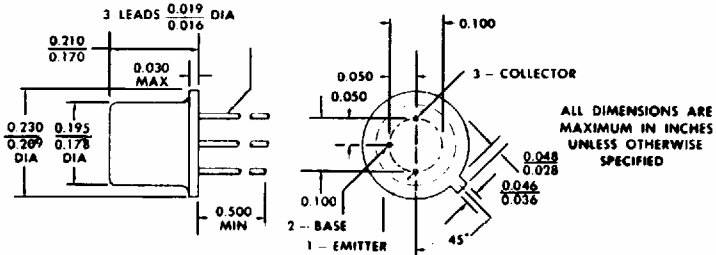
NS257



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.