

GERMANIUM PNP MESA TRANSISTORS

Type	V_{CB0} V Max	V_{EB0} V Max	V_{CE} V Max		I_{CBO} $@V_{CB}$ V μA Max	h_{FE} Min Max	$@I_C$ mA	Cob pf Max	f _{ab} MHZ Min	Pack Outline	Power Dissipation @25°C MW	
2N828A	15	2.5			6	3.0	25-	10	4.0	300	TO-18 ¹	150
2N829	15	2.5			6	3.0	50-	10	4.0	300	TO-18 ¹	150
2N808	30	2.5			15	10.0	30-	10	4.0		TO-18 ¹	150
2N960	15	2.5	7		6	3.0	20-	10	4.0	300	TO-18 ¹	150
2N961	12	2.0	7		6	3.0	20-	10	4.0	300	TO-18 ¹	150
2N962	12	1.2	7		6	3.0	20-	10	4.0	300	TO-18 ¹	150
2N962	12	1.3	7		6	3.0	20-	10	5.0	300	TO-18 ¹	150
2N963	12	2.0			6	5.0	20-	10	5.0	300	TO-18 ¹	300
2N964	15	2.5	7		6	3.0	40-	10	4.0	300	TO-18 ¹	150
2N964	15	2.5	7		6	3.0	40-	10	5.0	300	TO-18 ¹	150
2N964A	15	2.5	7		6	3.0	48-	10	4.0	300	TO-18 ¹	150
2N965	12	2.0	7		6	3.0	40-	10	4.0	300	TO-18 ¹	150
2N966	12	1.2	7		6	3.0	40-	10	4.0	300	TO-18 ¹	150
2N967	12	2.0			6	5.0	40-	10	4.0	300	TO-18 ¹	300
2N968	15	2.5			6	3.0	17-	10	8.0	300	TO-18 ¹	150
2N969	12	2.0			6	3.0	17-	10	8.0	300	TO-18 ¹	150
2N970	12	1.2			6	3.0	17-	10	8.0	300	TO-18 ¹	150
2N971	7	1.2			6	10.0	17-	10	8.0	300	TO-18 ¹	150
2N972	15	2.5			6	3.0	40-	10	8.0	300	TO-18 ¹	150
2N973	12	2.0			6	3.0	40-	10	8.0	300	TO-18 ¹	150
2N974	12	1.2			6	3.0	40-	10	8.0	300	TO-18 ¹	150
2N975	7	1.2			6	10.0	40-	10	8.0	300	TO-18 ¹	150
2N985	15	3.0	7		5	3.0	40-	10	6.0		TO-18 ¹	300
2N2635	30	2.5	15		25	5.0	30-	10	5.0		TO-18 ¹	300
2N3449	15	1.5	6		6	3.0	20-	10	5.0		TO-18 ¹	150

¹grounded collector

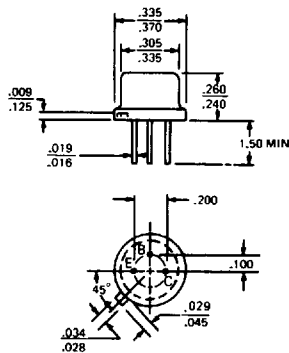
GERMANIUM PNP SMALL SIGNAL TRANSISTORS

Type	V_{CB0} V Max	V_{EB0} V Max	V_{CE} V Max	I_{CBO} @ V_{CB} V μA Max	h_{FE} Min Max	@ I_C mA	C_{ob} pf Max	f_{ab} MHZ Min	Outline	Power Dissipation @25°C MW	
2N43A	45	5	30	45	16	34-65	20	60	0.5	R-32	240
2N44A	45	5	30	45	16	18-43	20	60	0.5	R-32	240
2N45	25	5	25	45	16	18-43	20	60	0.5	R-32	155
2N186A	25	5	25	25	16	19-31	20		0.8†	R-32	200
2N187A	25	5	25	25	16	25-42	20		1.0†	R-32	200
2N188A	25	5	25	25	16	34-65	20		1.2†	R-32	200
2N190	25		25	25	16	34-65	20		1.0†	R-32	200
2N191	25		25	25	16	53-121	20		1.2†	R-32	200
2N192	25		25	25	16	52-176	20		1.5†	R-32	200
2N241A	25	5	25	25	16	50-125	20		1.3†	R-32	200
2N319	25	3	20	25	16	25-42	20	30	2.0†	TO-5	225
2N320	25	3	20	25	16	34-65	20	30	2.5†	TO-5	225
2N321	25	3	20	25	16	53-121	20	30	3.0†	TO-5	225
2N322	16	10	18	16	16	34-65	20	30	1.0	TO-5	200
2N323	16	10	18	16	16	53-125	20	30	1.5	TO-5	200
2N324	16	10	18	16	16	72-198	20	30	2.0	TO-5	200
2N394	30	20	15	10	6	20-150	10	20	7.0†	TO-5	150
2N394A	30	20	15	12	6	30-120	10	20	7.0†	TO-5	150
2N395	30	20	15	15	6	20-150	10	20	6.0†	TO-5	200
2N396	30	20	20	20	6	30-150	10	20	5.0	TO-5	200
2N396A	30	20	20	20	6	30-150	10	20	5.0	TO-5	200
2N397	30	20	15	15	6	40-150	10	20	10.0	TO-5	200
2N398	105	50	105	105	12	20	5		1.0†	TO-5*	50
2N398A	105	50	105	105	50	20	5		1.0†	TO-5*	150
2N404	25	12	24	12	5	30	12	20	4.0	TO-5	150
2N404A	40	25	35	12	5	30	12	20	4.0	TO-5	150
2N413	30	20	18	12	5	32-300	10		5.5	TO-5	150
2N414	30	20	15	12	5	32-300	10		5.5	TO-5	150
2N426	30	20	10	30	25	30-60	1	20	6.0	TO-5	175
2N427	30	20	15	30	25	40-80	1	20	5.0	TO-5	175
2N428	30	20	12	30	25	60	1	20	10.0	TO-5	175
2N461	45	10	33	45	15	32-100	20		4.0†		200
2N464	45	12	40	20	15	14-26	1		0.7†	TO-5	150

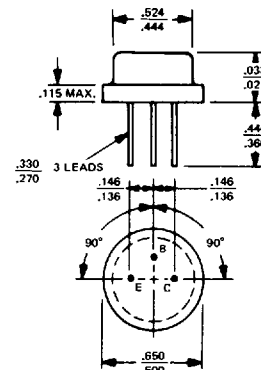
GERMANIUM POWER TRANSISTORS

CASE OUTLINE DRAWINGS & DIMENSIONS

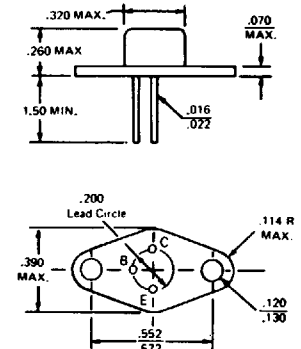
TO-5



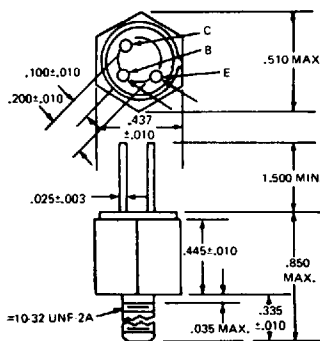
TO-8



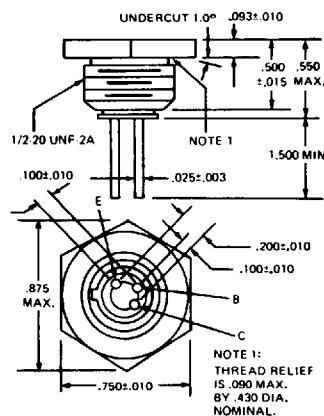
TO-37



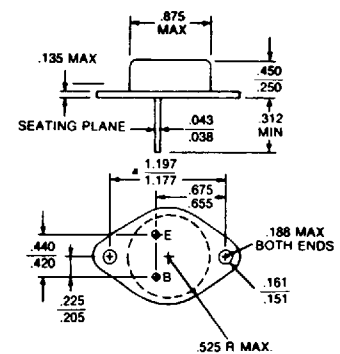
MT-27



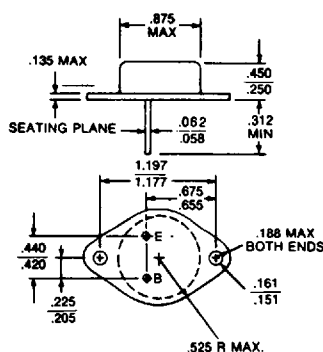
MT-28



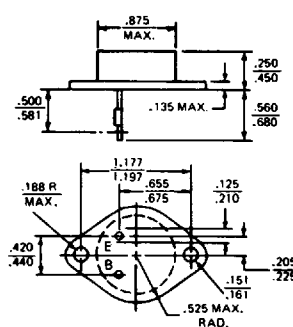
TO-3



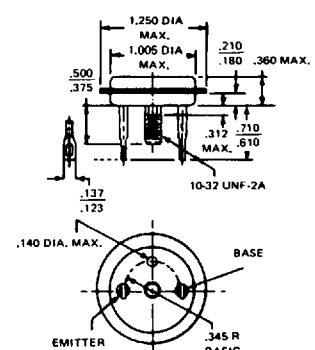
MODIFIED TO-3
(60 mil pins)



TO-41



TO-36



CASE OUTLINE DRAWINGS & DIMENSIONS

[illegible]

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions and tolerances. The drawing includes a top view and a side view. Key dimensions include: overall width .789, overall height .402, mounting hole diameter .387, central hole diameter .650, and various other features like .288 MAX., .094, .084, .157, .161, .212, .218, .427, .433, .692, .695, .546, .552, .1189, .1185, .1492, .1472, .005, .042, .038, and 2 HOLES. The side view shows a thickness of 3/8 MIN. and 2 PINS.

Technical drawing of a 1N4148 diode. The top view shows a hexagonal base with a diameter of .58. The base has a thickness of .02. The collector and emitter are located on the base, with a distance of .29 between them. The emitter is labeled "EMITTER" and the collector is labeled "COLLECTOR". The base is labeled "BASE". The side view shows the diode's profile with a total height of .75. The top of the diode has a diameter of .25. The base has a diameter of .25. The diode has a length of .53. The diode is labeled "HEX NUT" and "1-1/4 - 16UN - 2A". The dimensions are: .25, .75, .25, .53, .09 DIA. (3), .58, .02, .29, 1.5, EMITTER, COLLECTOR, BASE, HEX NUT, 1-1/4 - 16UN - 2A.

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

#1/4 - 28UNF-2A

1.00

.50

.04

.390 ± .025

.090 MAX.

1.110 MAX.

.343 REF.

.312 REF.

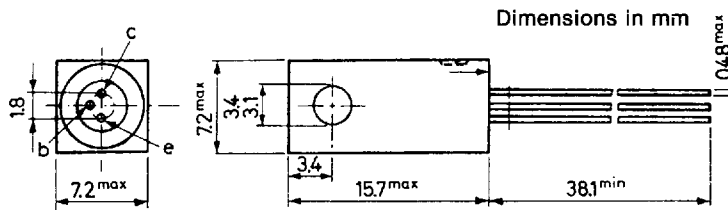
.290 REF.

.112 REF.

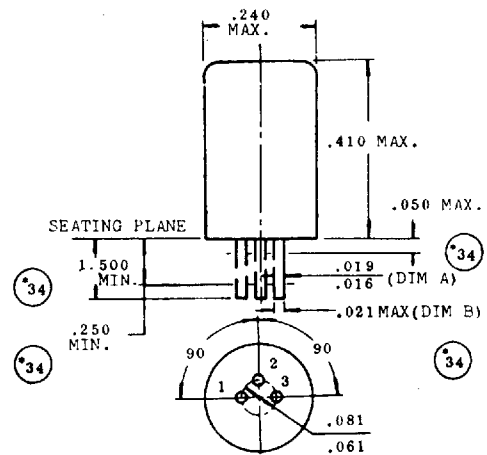
GERMANIUM POWER TRANSISTORS

CASE OUTLINE DRAWINGS & DIMENSIONS

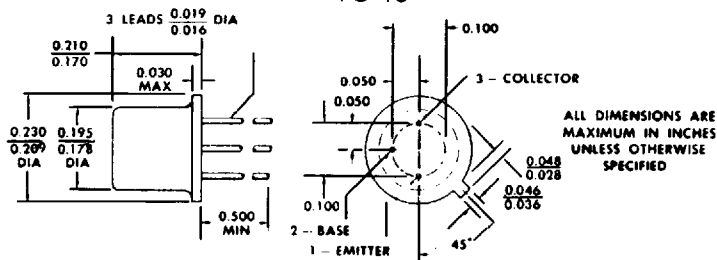
NS257



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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