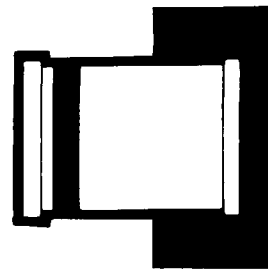


T 11-13

SMD Zener Diode MELF Case 1.0W U.S. Specification (Preferred Series)



The Central Semiconductor CLL4728A Series Silicon Zener Diode is a high quality voltage regulator for use in surface mount industrial, commercial, entertainment and computer applications.

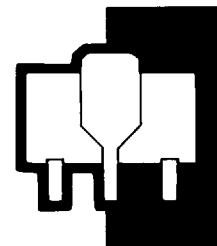
ABSOLUTE MAXIMUM RATINGS	SYMBOL	UNIT
Power Dissipation (@ T _A = 50°C)	P _D	1.00 W
Operating and Storage Temperature	T _J , T _{STG}	-65 to +200 °C
Tolerance "A Suffix"		±5 %
Tolerance "C Suffix"		±2 %
Tolerance "D Suffix"		±1 %

ELECTRICAL CHARACTERISTICS

(T_A = 25°C), V_F = 1.2V MAX @ I_F = 200 mA FOR ALL TYPES.

TYPE	ZENER VOLTAGE V _Z @I _{Z1}	TEST CURRENT I _{Z1}	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM DC CURRENT I _{ZM}
			Z _{Z1} @I _{Z1}	Z _{Z2} @I _{Z2}		I _R @V _R		
				Ω	Ω	mA	μA	
CLL4728A	3.3	76	10	400	1.0	100	1.0	1380
CLL4729A	3.6	69	10	400	1.0	100	1.0	1260
CLL4730A	3.9	64	9.0	400	1.0	50	1.0	1190
CLL4731A	4.3	58	9.0	400	1.0	10	1.0	1070
CLL4732A	4.7	53	8.0	500	1.0	10	1.0	970
CLL4733A	5.1	49	7.0	550	1.0	10	1.0	890
CLL4734A	5.6	45	5.0	600	1.0	10	2.0	810
CLL4735A	6.2	41	2.0	700	1.0	10	3.0	730
CLL4736A	6.8	37	3.5	700	1.0	10	4.0	660
CLL4737A	7.5	34	4.0	700	0.5	10	5.0	605
CLL4738A	8.2	31	4.5	700	0.5	10	6.0	550
CLL4739A	9.1	28	5.0	700	0.5	10	7.0	500
CLL4740A	10	25	7.0	700	0.25	10	7.6	454
CLL4741A	11	23	8.0	700	0.25	5.0	8.4	414
CLL4742A	12	21	9.0	700	0.25	5.0	9.1	380
CLL4743A	13	19	10	700	0.25	5.0	9.9	344
CLL4744A	15	17	14	700	0.25	5.0	11.4	304
CLL4745A	16	15.5	16	700	0.25	5.0	12.2	285
CLL4746A	18	14	20	750	0.25	5.0	13.7	250
CLL4747A	20	12.5	22	750	0.25	5.0	15.2	225
CLL4748A	22	11.5	23	750	0.25	5.0	16.7	205
CLL4749A	24	10.5	25	750	0.25	5.0	18.2	190
CLL4750A	27	9.5	35	750	0.25	5.0	20.6	170
CLL4751A	30	8.5	40	1000	0.25	5.0	22.8	150
CLL4752A	33	7.5	45	1000	0.25	5.0	25.1	135
CLL4753A	36	7.0	50	1000	0.25	5.0	27.4	125
CLL4754A	39	6.5	60	1000	0.25	5.0	29.7	115
CLL4755A	43	6.0	70	1500	0.25	5.0	32.7	110
CLL4756A	47	5.5	80	1500	0.25	5.0	35.8	95
CLL4757A	51	5.0	95	1500	0.25	5.0	38.8	90
CLL4758A	56	4.5	110	2000	0.25	5.0	42.6	80
CLL4759A	62	4.0	125	2000	0.25	5.0	47.1	70
CLL4760A	68	3.7	150	2000	0.25	5.0	51.7	65
CLL4761A	75	3.3	175	2000	0.25	5.0	56	60
CLL4762A	82	3.0	200	3000	0.25	5.0	62.2	55
CLL4763A	91	2.8	250	3000	0.25	5.0	69.2	50
CLL4764A	100	2.5	350	3000	0.25	5.0	76	45

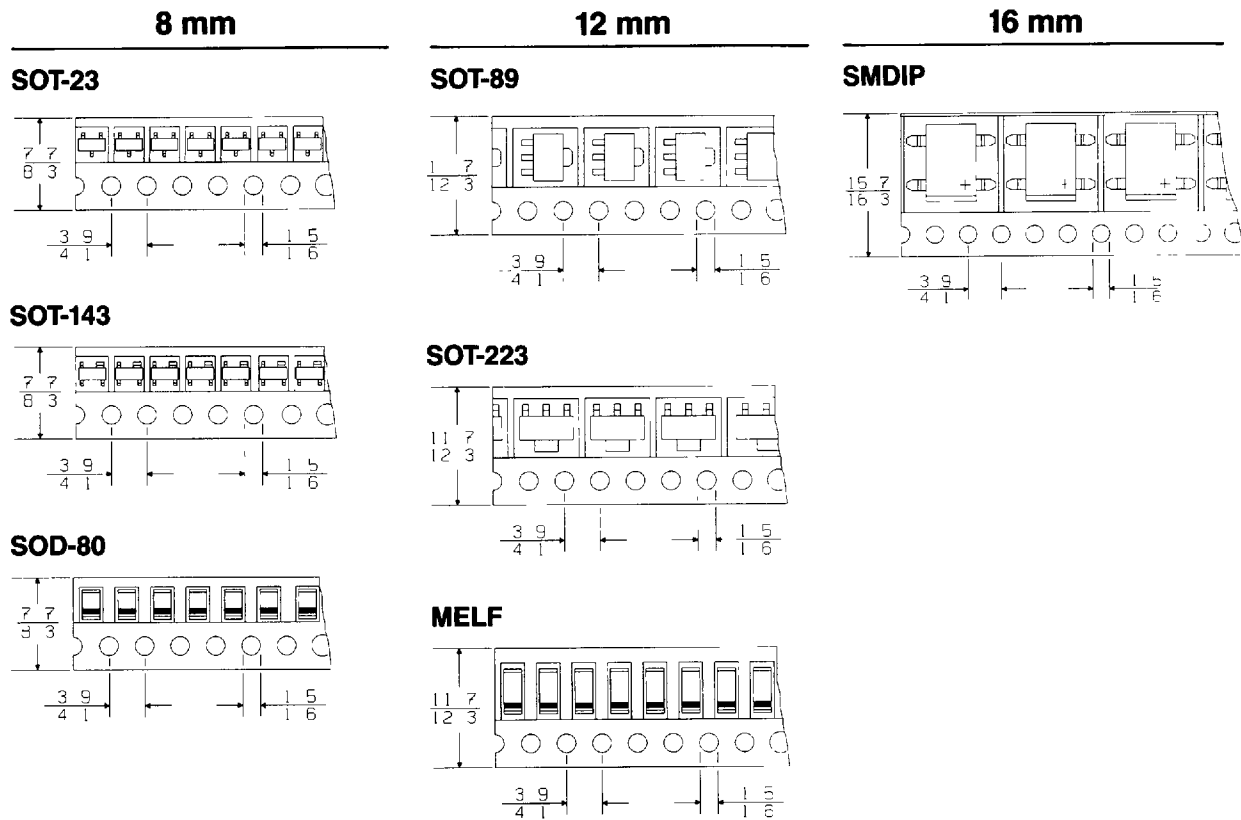
SMD Zener Diode SOT-89 Case 1.0W Proelectron Specification



TYPE NO.	CASE	V _Z RANGE	TOLERANCE	POWER	MARKING
BZV49C3V3 thru BZV49C33	SOT-89	3.3 V thru 33 V	±5%	1.0 W	3Y3 thru 33Y

T-91-20

Tape Dimensions And Orientation: (Dimensions in mm)



DIRECTION OF UNREELING
←

Taped And Reeled Packaging Base

PACKAGE	TAPE WIDTH (mm)	REEL SIZE (INCH)	DEVICE PER REEL
SOT-23	8	7 13	3,000 10,000
SOT-143	8	7 13	3,000 10,000
SOT-89	12	7 13	1,000 4,000
SOT-223	12	7 13	1,000 4,000
SOD-80	8	7 13	2,500 10,000
MELF	12	7 13	1,500 5,000
SMDIP	16	7 13	250 1,000

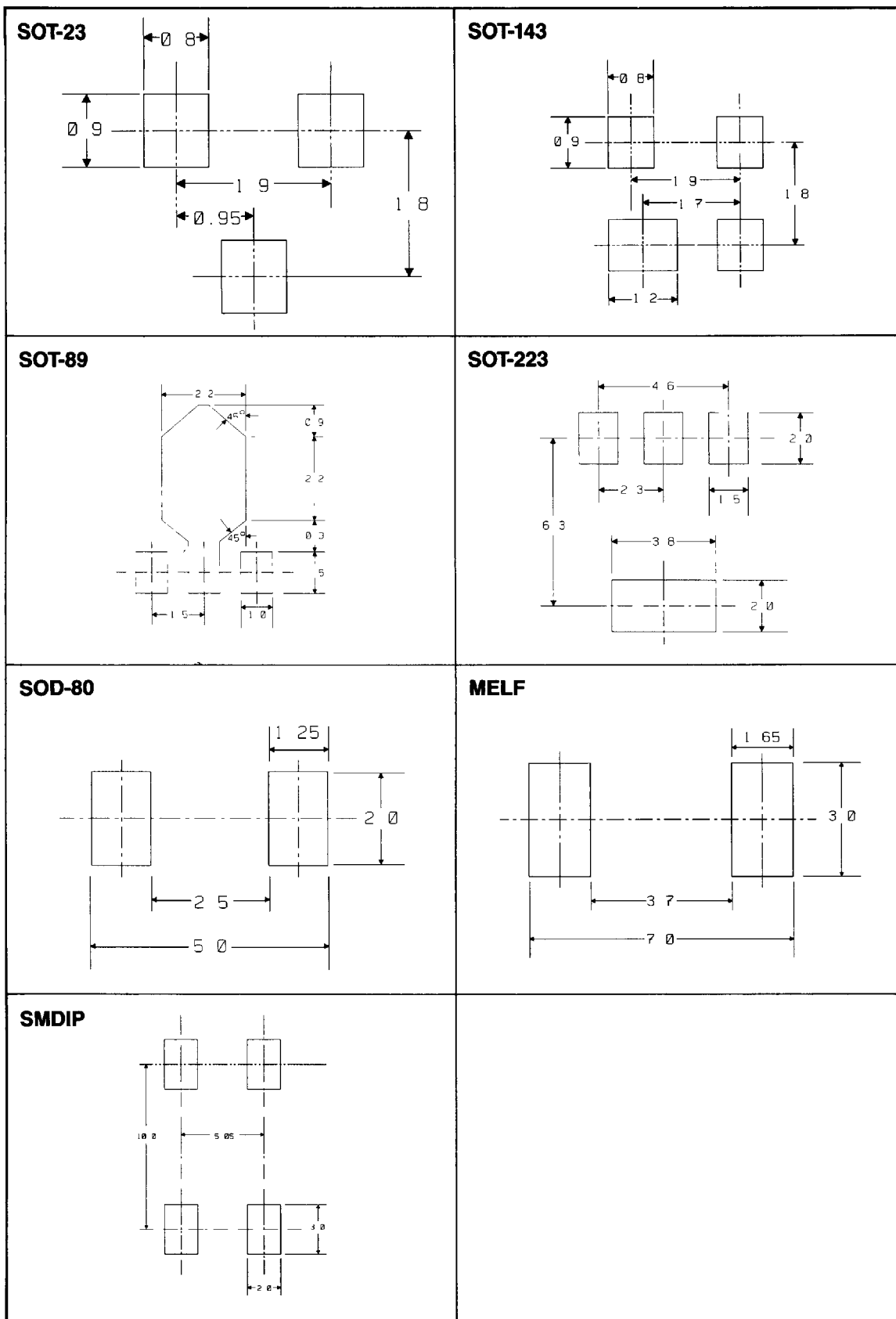
ORDERING INFO:

For devices taped and reeled on 7" reels, add TR suffix to part number.
 For devices taped and reeled on 13" reels, add TR13 suffix to part number.
 For devices bulk packed, add BK suffix to part number.
 All SMDs are available bulk packed, for prototype and manual placement applications.
 Bulk SMDs are shipped in black plastic, anti-static vials with hinged lids.

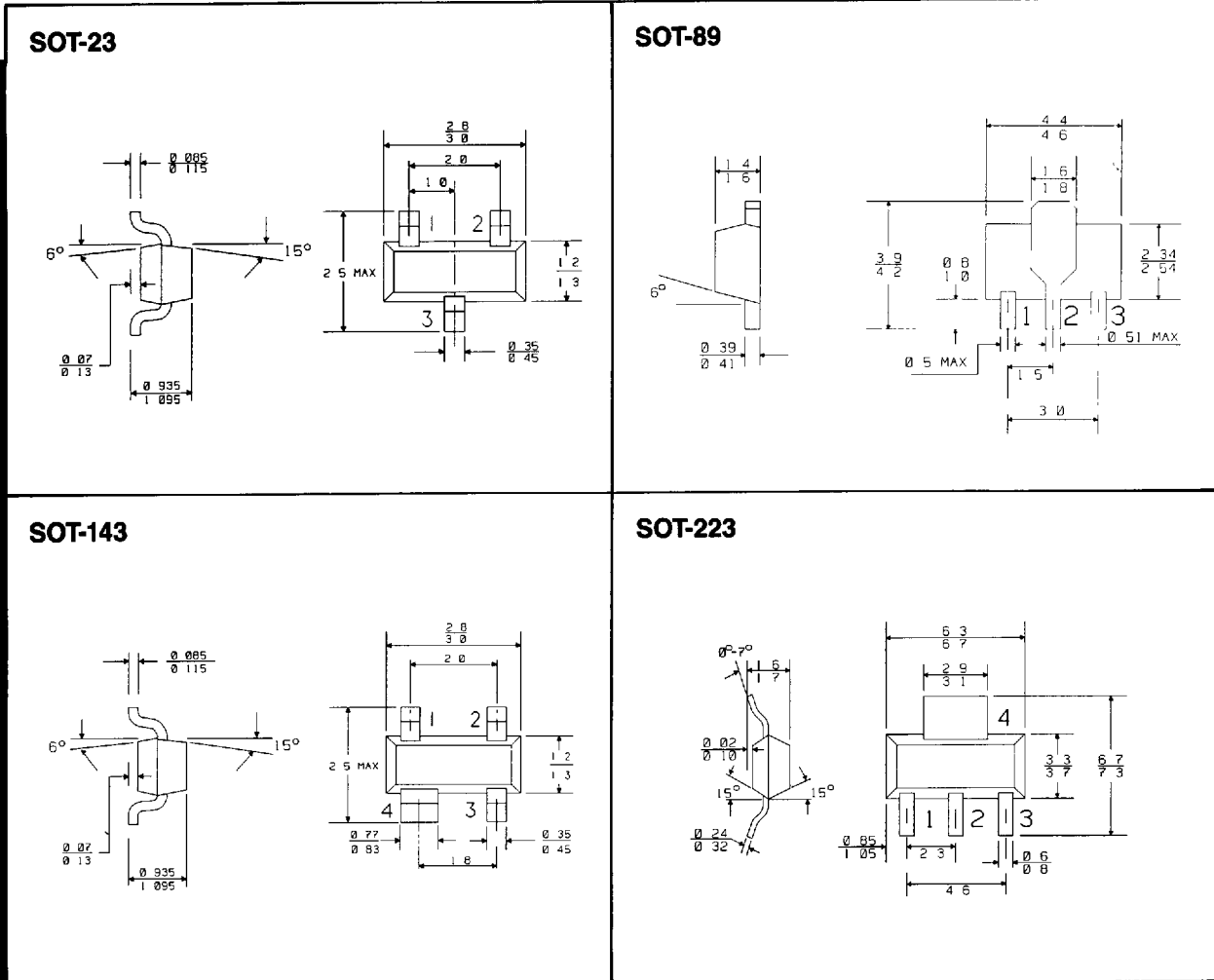
Bulk Packed Packaging Base

Package	Quantity
SOT-23	1K/Vial
SOT-143	1K/Vial
SOT-89	1K/Vial
SOT-223	250/Vial
SOD-80	1K/Vial
MELF	1K/Vial
SMDIP	50/Sleeve

Mounting Pad Geometries (Dimensions in mm)



Mechanical Drawings (Dimensions in mm)



LEAD CODE

- SOT-23 DIODE (SINGLE)
- SOT-23 DIODE (DUAL, COMMON CATHODE)
- SOT-23 DIODE (DUAL, COMMON ANODE)
- SOT-23 DIODE (DUAL, IN SERIES)
- SOT-23 JFET
- SOT-23 STABISTOR
- SOT-23 SCR
- SOT-23 TRANSISTOR
- SOT-23 ZENER (SINGLE)
- SOT-23 ZENER (DUAL, COMMON ANODE)
- SOT-89 SCHOTTKY RECTIFIER
- SOT-89 TRANSISTOR
- SOT-89 TRIAC
- SOT-89 ZENER DIODE

PIN 1

- NO CONNECTION
- ANODE
- CATHODE
- CATHODE
- SOURCE*
- NO CONNECTION
- GATE
- EMITTER
- NO CONNECTION
- CATHODE
- ANODE
- ANODE
- EMITTER
- GATE
- ANODE

PIN 2

- ANODE
- ANODE
- CATHODE
- ANODE
- DRAIN*
- ANODE
- CATHODE
- BASE
- ANODE
- CATHODE
- CATHODE
- COLLECTOR
- MT2
- CATHODE

PIN 3

- CATHODE
- CATHODE
- ANODE
- CATHODE, ANODE
- GATE
- CATHODE
- ANODE
- COLLECTOR
- CATHODE
- ANODE
- ANODE
- BASE
- MT1
- ANODE

- SOT-143 DIODE (DUAL, ISOLATED)
- SOT-223 TRANSISTOR

PIN 1

- ANODE #1
- BASE

PIN 2

- ANODE #2
- COLLECTOR

PIN 3

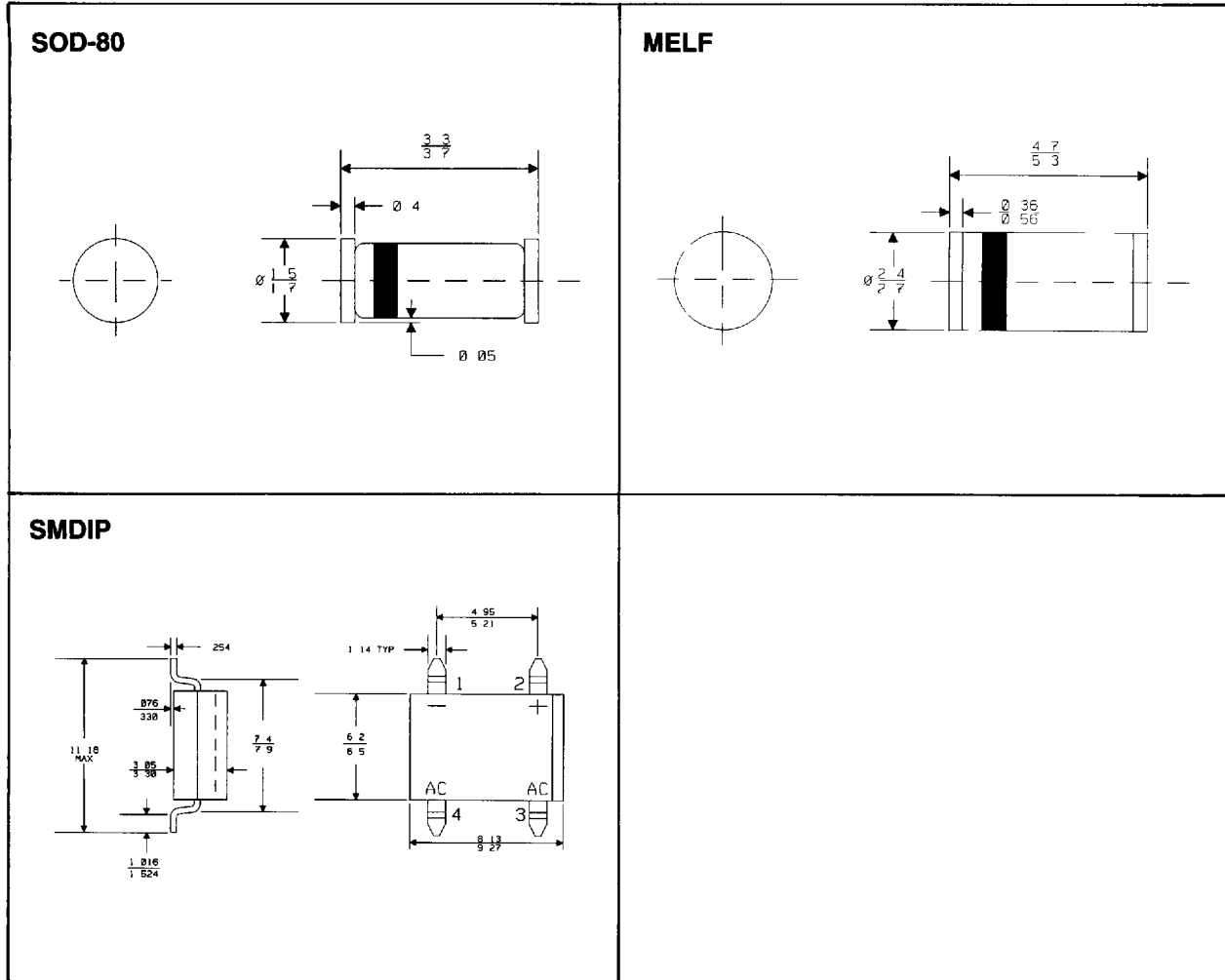
- CATHODE #2
- EMITTER

PIN 4

- CATHODE #1
- COLLECTOR

*SOURCE AND DRAIN ARE INTERCHANGEABLE ON JFETs

Mechanical Drawings (Dimensions in mm)



LEAD CODE
SMDIP BRIDGE RECTIFIER

PIN 1
NEGATIVE

PIN 2
POSITIVE

PIN 3
AC

PIN 4
AC