

T-11-23

T10TM SERIES-PI-RANGE

Transient Voltage Suppressor ■ Glass Passivated Junction
Voltage Range 68V – 350 Volts ■ 100A Peak Pulse Current

APPLICATIONS

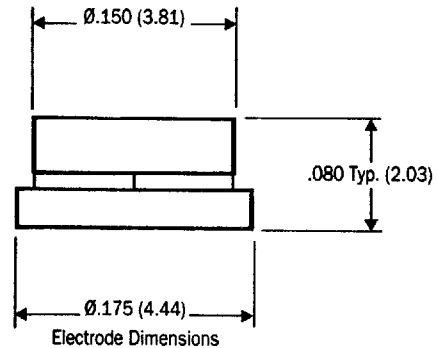
- Transient voltage suppression for induced lightning, NEMP, Electro Static Discharge, Powerline Incursion for Telecommunication, Datacommunication and General signalling applications. Central Office application.

FEATURES

- Glass passivated junction
- 100A surge capability at 10/1000µs
- Excellent clamping capability
- Low impedance
- Low capacitance
- High density mounting
- Ideal for Hybrid circuits
- Solder/Wire Bond/Pressure contact
- Bipolar

MECHANICAL DATA

- Solder mounting surfaces
- Mounting position: any
- Nickel plated copper electrodes
- Gold plated Molybdenum available on request



Silastic Coated
 inches (mm)

Quick Reference Data

	T10-P1068	T10-P1140	T10-P1180	T10-P1230	T10-P1350
Off-State Voltage max.	55V	113V	146V	200V	265V
*Breakover Voltage max.	74V	164V	198V	252V	350V
Breakdown Voltage min.	62V	126V	162V	207V	275V
Holding Current (IH) +	260mA	260mA	260mA	260mA	260mA
Peak Pulse Current (10/1000µs)	100A	100A	100A	100A	100A
Peak Pulse Voltage (10/700µs)	5kV	5kV	5kV	5kV	5kV
Capacitance 1MHz 0V bias max.	<150pF	<150pF	<200pF	<200pF	<200pF

*Characteristics apply line to ground. + other holding currents available.



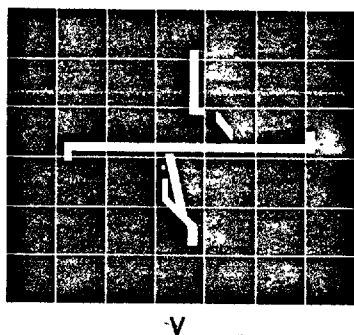
CELLS

Electrical Data @ 25°C

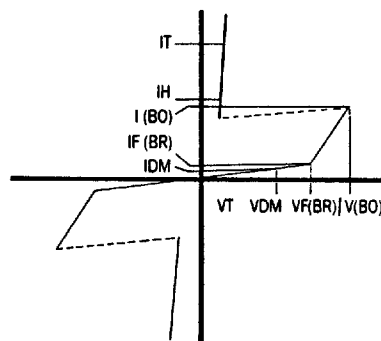
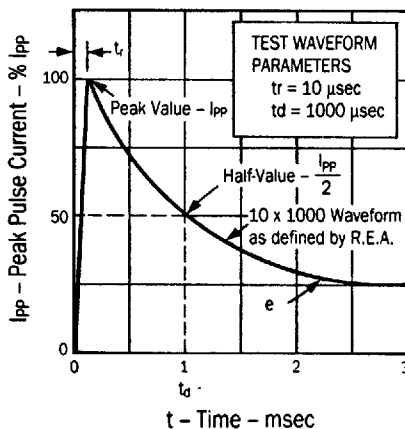
Characteristics @ 25°C	Symbol	T10-P1068	T10-P1140	T10-P1180	T10-P1230	T10-1350
Off-State Voltage	VDM	55V	113V	146V	200V	265V
Off-State Leakage	IDM	10µA	10µA	10µA	10µA	10µA
Breakover Voltage	V(B0)	74V	164V	198V	252V	350V
Breakdown Voltage @ IF(BR) = 1mA	V _F (BR)	62V	126V	162V	207V	275V
Off State Capacitance	CTQT	<150pF	<150pF	<200pF	<200pF	<200pF
Peak Pulse Current 10/1000µs	ITSM	100A	100A	100A	100A	100A
Peak Pulse Voltage 10/700µs	VTSM	5kV	5kV	5kV	5kV	5kV
On State Voltage @ It = 2A	VT	3V	3V	3V	3V	3V
Follow on Current	ITRM	10A	10A	10A	10A	10A
Voltage Response	dv/di	5kV/µs	5kV/µs	5kV/µs	5kV/µs	5kV/µs
Breakover Current (Typ)	IBO	200mA	200mA	200mA	200mA	200mA
Ambient Operating Range	TA	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
Max. Junction Temp.	TJ	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C
AC Discharge (600V, 5 x 1s)	ITRM	20A	20A	20A	20A	20A

Holding Current I_H min. mA Suffix 160 - D 240 - H
 add suffix to type number 100 - A 180 - E 260 - J
 120 - B 200 - F
 140 - C 220 - G

TYPICAL VOLT AMPERE CHARACTERISTIC



PULSE WAVEFORM

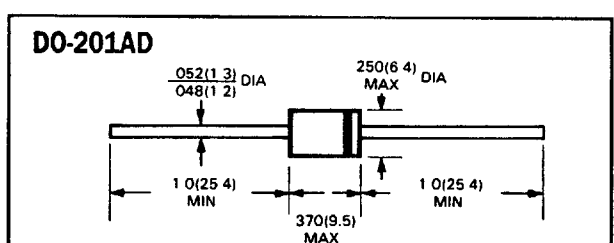
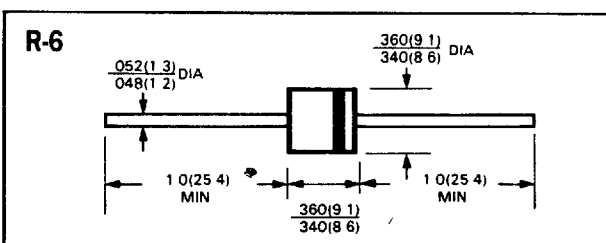
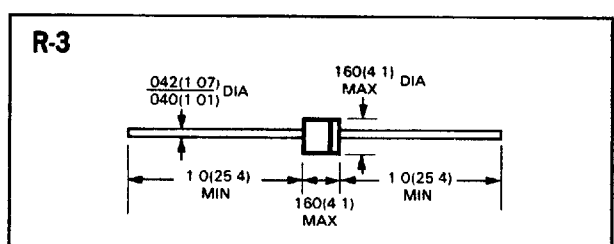
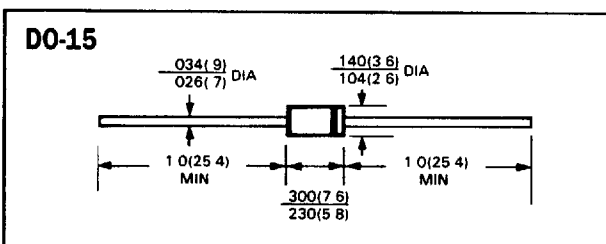
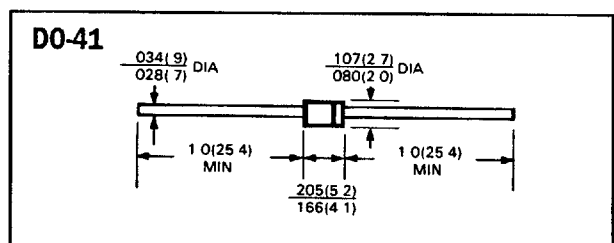
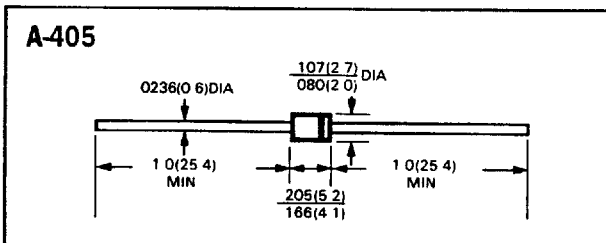
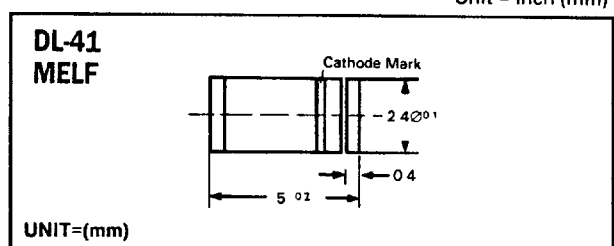
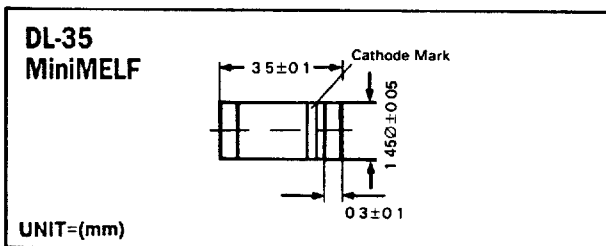


VI Graph Illustrating Symbols and Terms for the Thyristor Diode Surge Protective Device



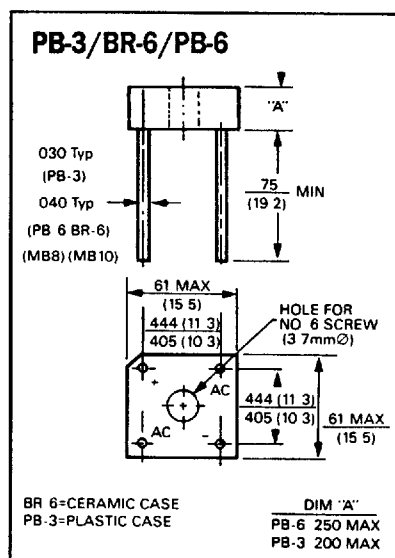
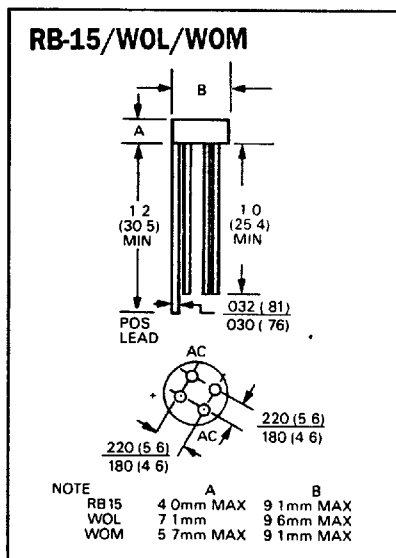
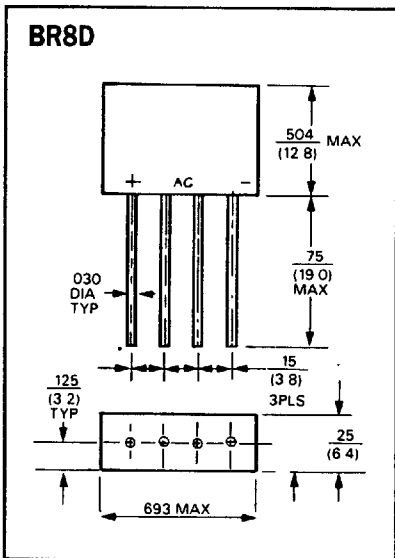
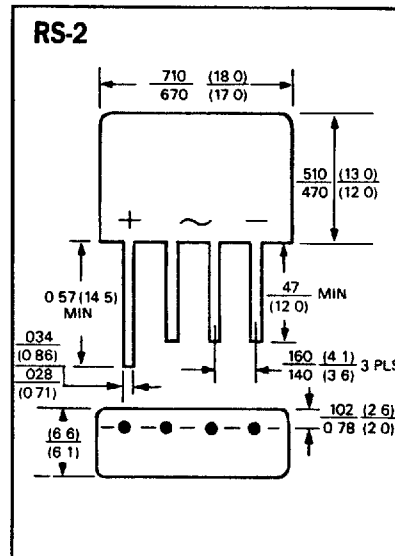
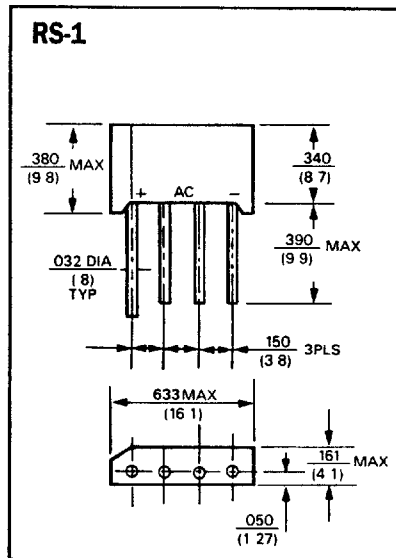
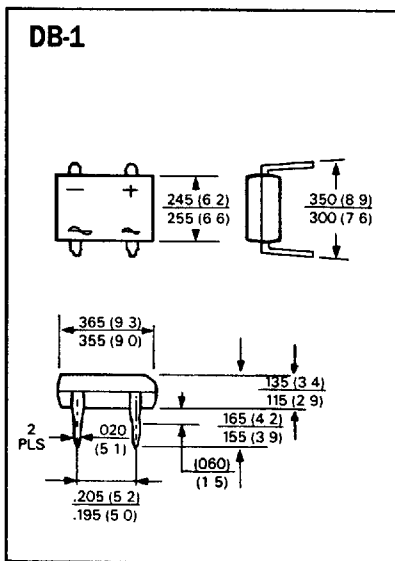
OUTLINE DRAWINGS

Unit = inch (mm)





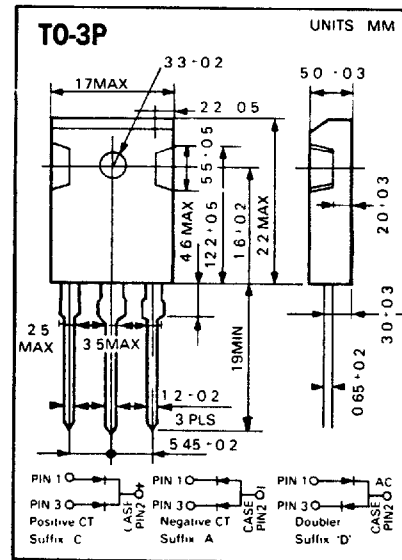
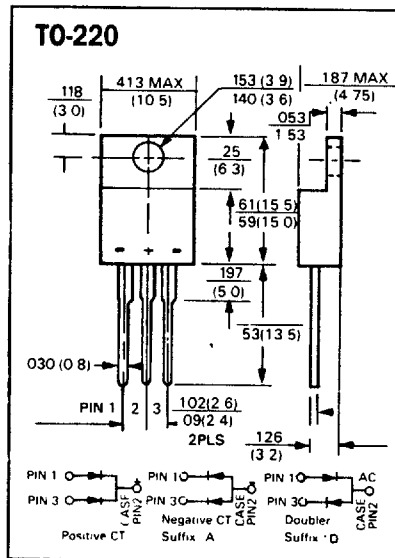
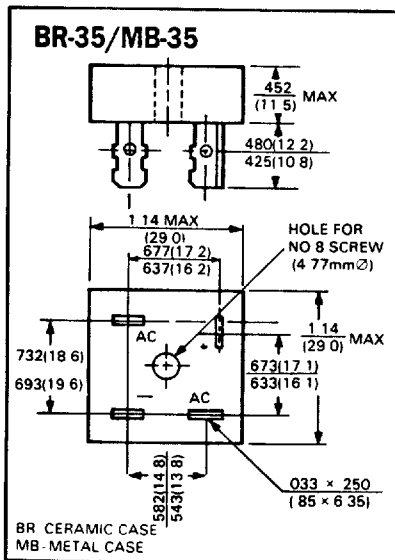
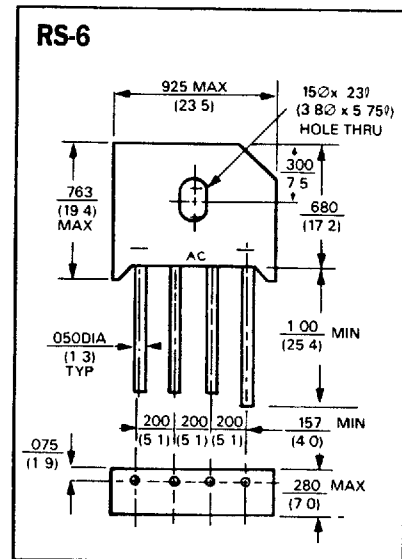
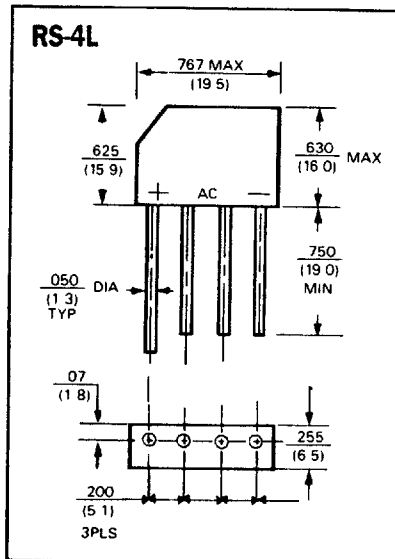
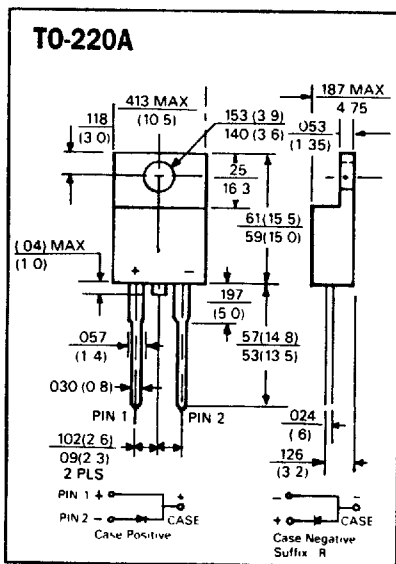
OUTLINE DRAWINGS



RECTIFIER DIODES AND BRIDGE RECTIFIERS

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OUTLINE DRAWINGS



RECTIFIERS

SEMITRON INDUSTRIES LTD

Product Packaging Specifications

PACKAGING OF AXIAL LEAD DIODES, MELF AND MINI-MELF SURFACE MOUNT DEVICES AND TRANSISTORS

REEL PACK

OUTLINE	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA. (m/m)	QTY./REEL (each)
DO-7	5.0	52.4	330	10,000
DO-35	5.0	53	355	10,000
DO-35 (ZENER)	[RADIAL TAPING SEE FIG. 1, 2 & 3]		355	5,000
DL-35 (MINI MELF)	See Pg. 37		250/330	5,000/10,000
DL-41 (MELF)	See Pg. 37		330	5,000
A-405	5.0	52.4	330	5,000
A-500	5.0	52.4	203/254/304	1,000/2,000/3,000
DO-41	5.0	52.4	330	5,000
DO-41 (ZENER)	5.0	53	355	5,000
DO-15	5.0	52.4	330	4,000
R-3	5.0	52.4	330	3,000
DO-201AD	10.0	52.4	330	1,200
R-6	10.0	52.4	330	500
TO-92	[RADIAL TAPING SEE FIG. 4, 5 & 6]		355	2,000
TO-236/SOT-23	[SEE SPECIFICATIONS ON PG.38]		178	3,000

PACKAGING OF AXIAL LEAD DIODES AND LEADED TRANSISTORS

AMMO PACK

OUTLINE	COMPONENT SPACE (mm)	TAPE SPACE (mm)	BOX SIZE (m/m)	QTY./BOX (each)
DO-35 (SW. DIODES)	5.0	53	338/147/77	15,000
DO-35	5.0	53	255/95/85	6,000
DO-35	5.0	26	255/95/51	6,000
A-405	5.0	52.4	255/95/78	3,000
DO-41	5.0	52.4	255/95/78	3,000
DO-41	5.0	26	255/51/95	3,000
DO-41 (ZENER)	5.0	53	255/95/85	3,000
DO-41 (ZENER)	5.0	26	255/95/51	3,000
DO-15	5.0	52.4	255/95/78	2,200
R-3	5.0	52.4	255/95/78	2,000
DO-201AD	10.0	52.4	255/95/78	800
R-6	10.0	52.4	255/95/78	300
TO-92	[RADIAL TAPING, SEE FIG. 4]		340/340/45	4,000

RECTIFIER DIODES AND
BRIDGE RECTIFIERS

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