



## HIGH VOLTAGE SILICON RECTIFIERS

- SMALL SIZE MOLDED PACKAGE
- PRV 15,000 TO 30,000 VOLTS
- FAST RECOVERY
- AVALANCHE CHARACTERISTICS
- LOW LEAKAGE



EDI Type	PRV (Volts)	REVERSE RECOVERY TIME IN NANoseconds @25 °C (Fig.4)	MAXIMUM FORWARD VOLTAGE DROP @25mA
CRVT 150	15,000	100	35 Volts
CRVT 200	20,000	100	35 Volts
CRVT 250	25,000	100	35 Volts
CRVT 300	30,000	100	48 Volts

### ELECTRICAL CHARACTERISTICS (at $T_A=25^\circ\text{C}$ Unless Otherwise Specified)

Average Rectified Forward Current @ 75°C, (Fig.1)	25 mA
Max Peak Surge Current (8.3ms) (Fig.2)	3 Amp
Max DC Reverse Current @ PRV and 25°C	1 $\mu\text{A}$
Max DC Reverse Current @ PRV and 100°C	25 $\mu\text{A}$
Ambient Operating Temperature Range	-55°C to +125 °C
Storage Temperature Range	-55°C to +150 °C

#### NOTES:

- 1.It is recommended that a proper heat sink be used on the terminals of this device between the body and soldering point to prevent damage from excess heat.
- 2.If operated over 10,000v/inch in length, devices should be immersed in oil or re - encapsulated.

EDI reserves the right to change these specifications at any time without notice.

FIG.1

OUTPUT CURRENT vs AMBIENT TEMPERATURE

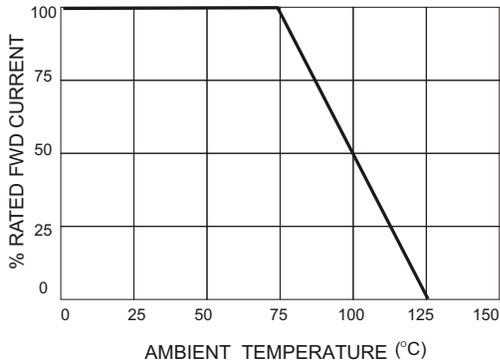


FIG.2

NON-REPETITIVE SURGE CURRENT

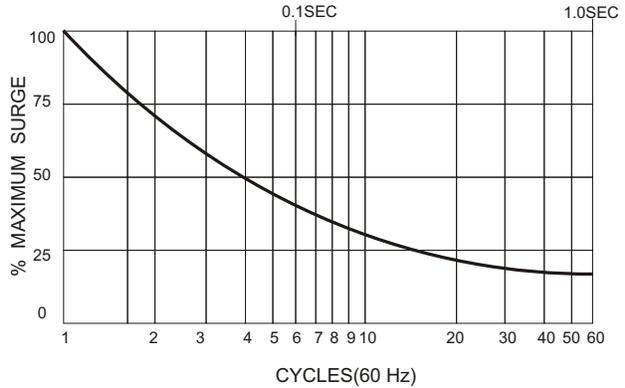


FIG.3

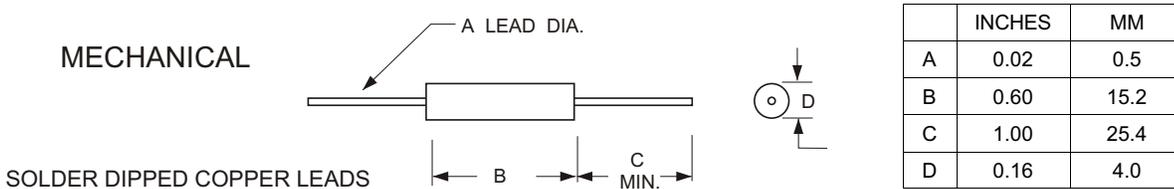
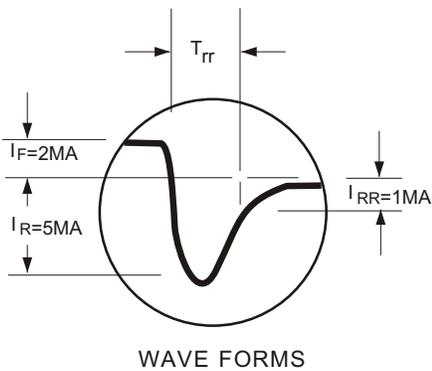


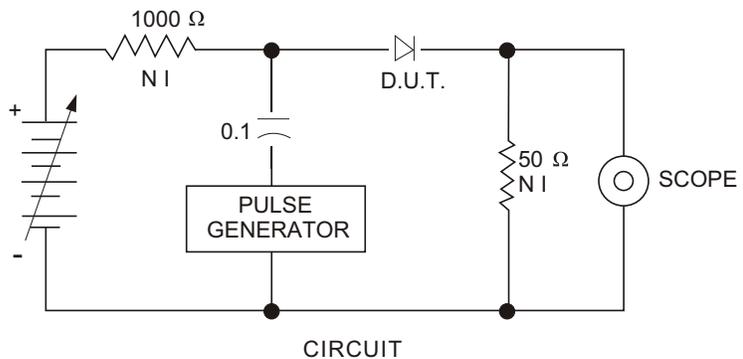
FIG.4

REVERSE RECOVERY TEST METHOD

RECOVERY WAVE FORM



RECOVERY WAVE FORM



EDI reserves the right to change these specifications at any time without notice.

**ELECTRONIC DEVICES, INC.** DESIGNERS AND MANUFACTURERS OF SOLID STATE DEVICES SINCE 1951.

21 GRAY OAKS AVENUE \* YONKERS, NEW YORK 10710 914-965-4400 \* FAX 914-965-5531 \* 1-800-678-0828

e-mail:sales@edidiodes.com\* website:http:// www.edidiodes.com