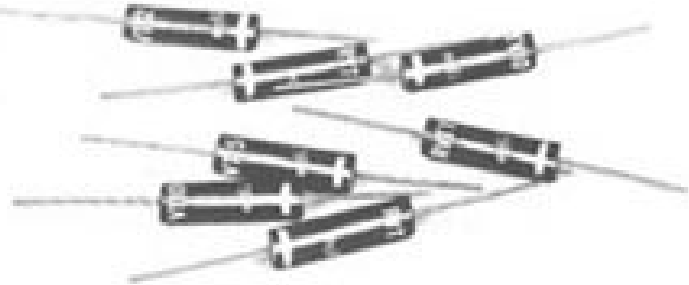




# VT RVT

## HIGH VOLTAGE 50 mA SILICON RECTIFIERS

- SMALL SIZE MOLDED PACKAGE
- PRV 10,000 TO 15,000 VOLTS
- FAST RECOVERY (R\_SERIES)
- AVALANCHE CHARACTERISTICS
- LOW LEAKAGE



| EDI Type | PRV Volts | REVERSE RECOVERY TIME (Fig.4) |
|----------|-----------|-------------------------------|
| VT1000   | 10,000    | -                             |
| VT1200   | 12,000    | -                             |
| VT1500   | 15,000    | -                             |
| RVT1000  | 10,000    | 100 ns max.                   |
| RVT1200  | 12,000    | 100 ns max.                   |
| RVT1500  | 15,000    | 100 ns max.                   |

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

|                                                                  |                                |
|------------------------------------------------------------------|--------------------------------|
| Average Rectified Forward Current @ $50^{\circ}\text{C}$ , $I_o$ | 50 mA                          |
| Max. Peak Surge Current, $I_{FSM}$ (8.3ms)                       | 5 Amp                          |
| Max. Forward Voltage Drop @ 50mA, $V_F$                          | 28Volts                        |
| Max. DC Reverse Current @ PRV and $25^{\circ}\text{C}$ , $I_R$   | 1 $\mu\text{A}$                |
| Max. DC Reverse Current @ PRV and $100^{\circ}\text{C}$ , $I_R$  | 25 $\mu\text{A}$               |
| Ambient Operating Temperature Range, $T_A$                       | -55 to + $125^{\circ}\text{C}$ |
| Storage Temperature Range, $T_{STG}$                             | -55 to + $150^{\circ}\text{C}$ |

#### 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

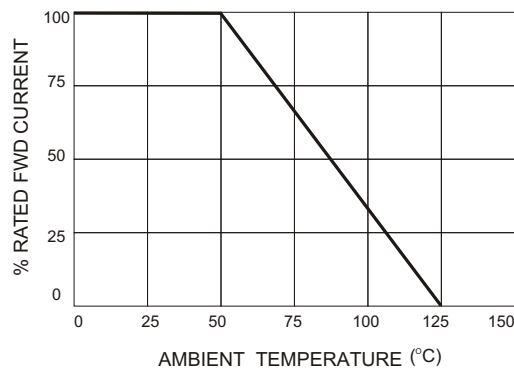


FIG.2

NON-REPETITIVE SURGE CURRENT

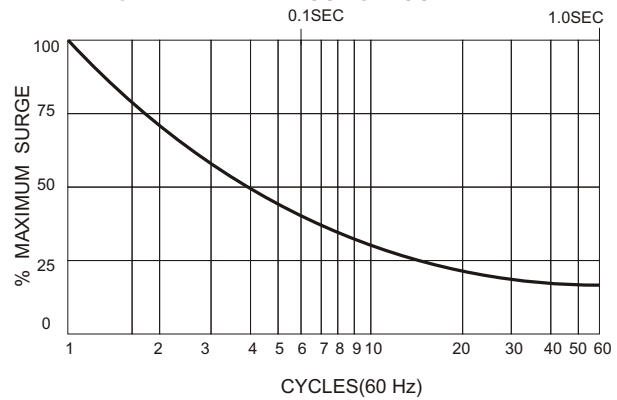


FIG.3

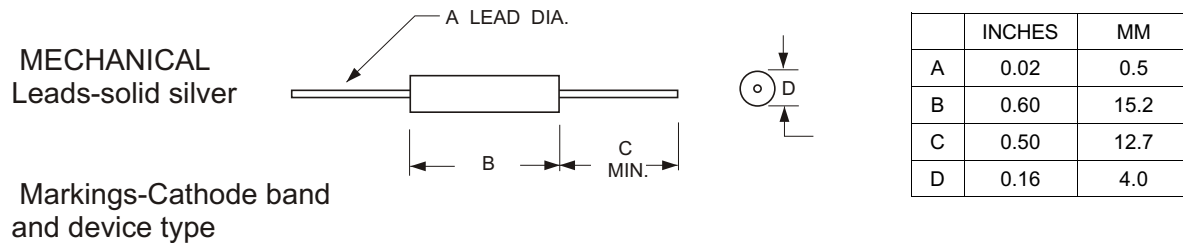
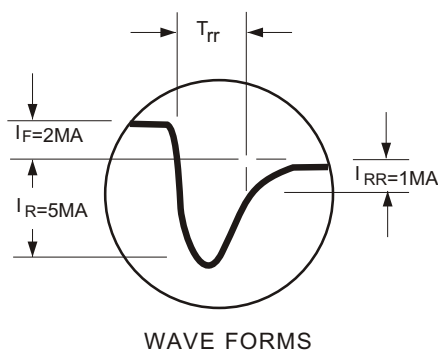


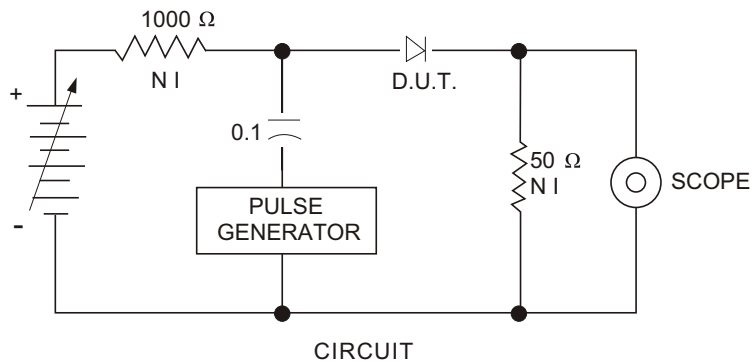
FIG.4

REVERSE RECOVERY TEST METHOD

RECOVERY WAVE FORM



RECOVERY WAVE FORM



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