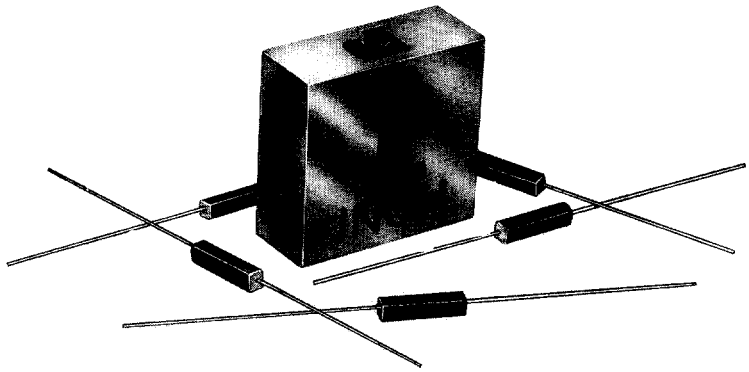
FAST RECOVERY, 100ns. HIGH VOLTAGE 40ma, MINIATURE RECTIFIERS

- 1 INCH MINIMUM LEADS
- SMALL SIZED MOLDED PACKAGE
- PRV 3,000 TO 12,000 VOLTS
- AVALANCHE CHARACTERISTICS
- LOW LEAKAGE



EDI Type	PRV Volts
SL300	3,000
SL500	5,000
SL800	8,000
SL1000	10,000
SL1200	12,000

ELECTRICAL CHARACTERISTICS (at T_A = 25° C Unless Otherwise Specified)

Average Rectified Forward Current @ 50°C, I_O	40mA
Max. Peak Surge Current, I_{FSM} (8.3ms) (Fig. 2)	3 Amp
Max. Reverse Recovery (Fig. 4) t_{rr}	100 nanosec
Max. Forward Voltage Drop @ 25mA, V_F	26 Volts
Max. DC Reverse Current @ PRV and 25°C, I_R	1μA
Max. DC Reverse Current @ PRV and 100°C, I_R	15μA
Ambient Operating Temperature Range, T_A	−55°C to + 150°C
Storage Temperature Range, T_{stg}	−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 the soldering point to prevent damage from excess heat.
2. If operated over 10,000 v/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.

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FIG. 1

OUTPUT CURRENT vs AMBIENT TEMPERATURE

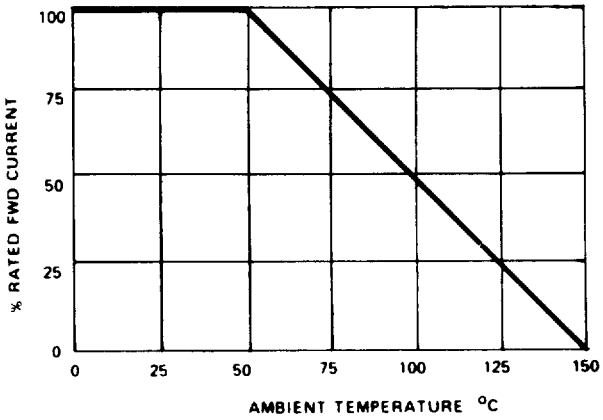


FIG. 2

NON - REPETITIVE SURGE CURRENT

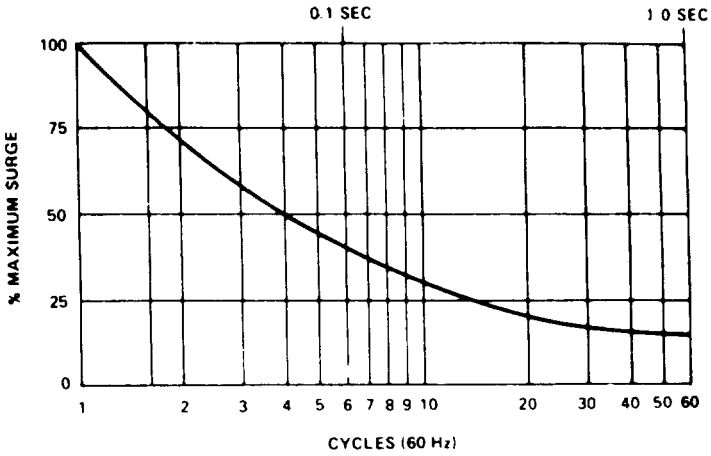


FIG. 3

MECHANICAL

LEAD - SOLDER DIPPED COPPER
MARKING: CATHODE BAND
AND DEVICE TYPE

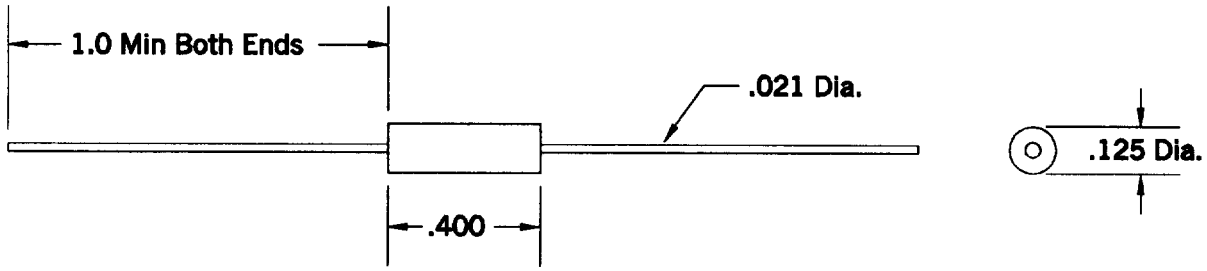
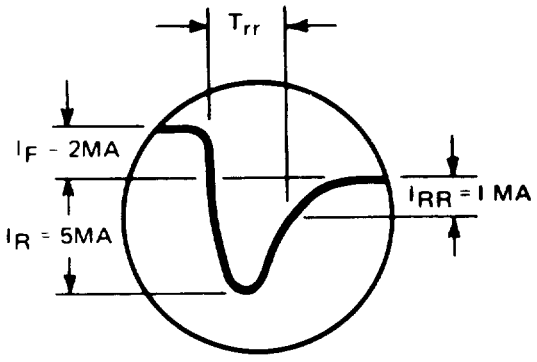


FIG. 4

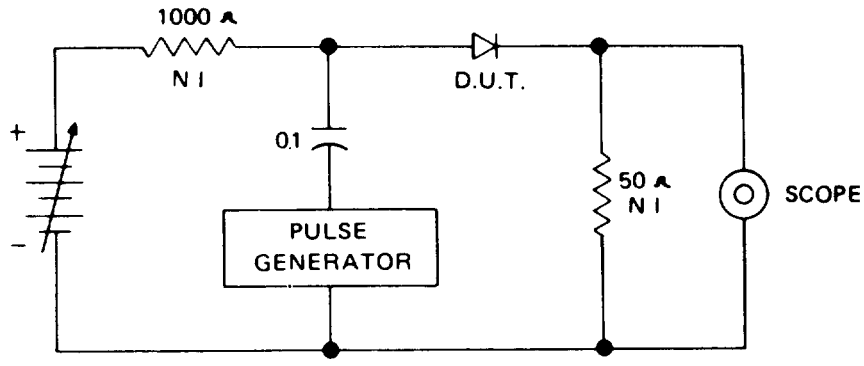
REVERSE RECOVERY TEST METHOD

RECOVERY WAVE FORM



WAVE FORMS

RECOVERY TEST CIRCUIT



CIRCUIT