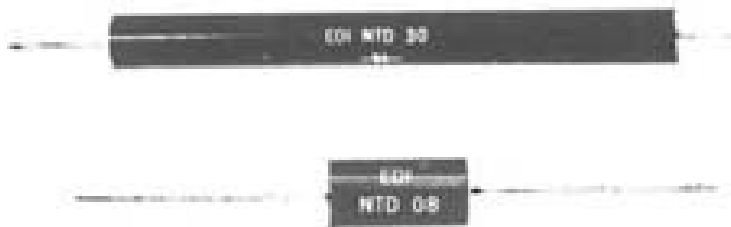




NTD

HIGH VOLTAGE-HIGH CURRENT SILICON RECTIFIERS

- DIFFUSED SILICON JUNCTIONS
- PRV 8,000 TO 60,000 VOLTS
- AVALANCHE CHARACTERISTICS
- LOW LEAKAGE



| EDI Type No. | Peak Reverse Voltage PRV (Volts) | Avg. Fwd. Current at 50 °C (mA) | Max. Fwd. Voltage Drop at 25 °C And I _O V _F (Volts) | Length "L" Fig.3 |
|--------------|----------------------------------|---------------------------------|---|------------------|
| NTD 08 | 8,000 | 300 | 12 | 1.00 |
| NTD 10 | 10,000 | 300 | 15 | 1.25 |
| NTD 12 | 12,000 | 300 | 18 | 1.50 |
| NTD 15 | 15,000 | 300 | 24 | 2.00 |
| NTD 20 | 20,000 | 300 | 30 | 2.50 |
| NTD 25 | 25,000 | 300 | 38 | 3.00 |
| NTD 30 | 30,000 | 300 | 45 | 3.75 |
| NTD 35 | 35,000 | 300 | 54 | 4.00 |
| NTD 40 | 40,000 | 300 | 60 | 5.00 |
| NTD 45 | 45,000 | 300 | 70 | 6.25 |
| NTD 50 | 50,000 | 300 | 76 | 6.25 |
| NTD 60 | 60,000 | 300 | 83 | 8.00 |

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

| | |
|---|-------------------|
| Max. DC Reverse Current @ PRV and 25 °C, I _R | 1 μA |
| Max. DC Reverse Current @ PRV and 100 °C, I _R | 100 μA |
| Ambient Operating Temperature Range, T _A | -55 °C to +125 °C |
| Storage Temperature Range, T _{STG} | -55 °C to +150 °C |
| Max. One-Half Cycle Surge Current, I _{FM} (Surge) @ 60Hz | 20 Amps |

FIG.1
OUTPUT CURRENT vs AMBIENT TEMPERATURE

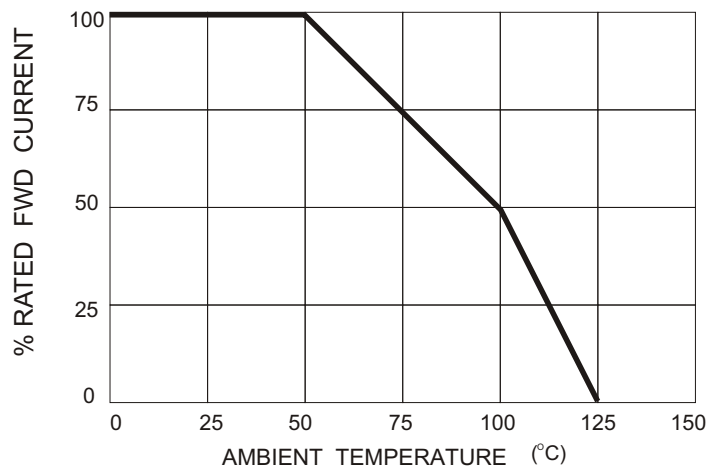


FIG.2
NON-REPETITIVE SURGE CURRENT RATINGS

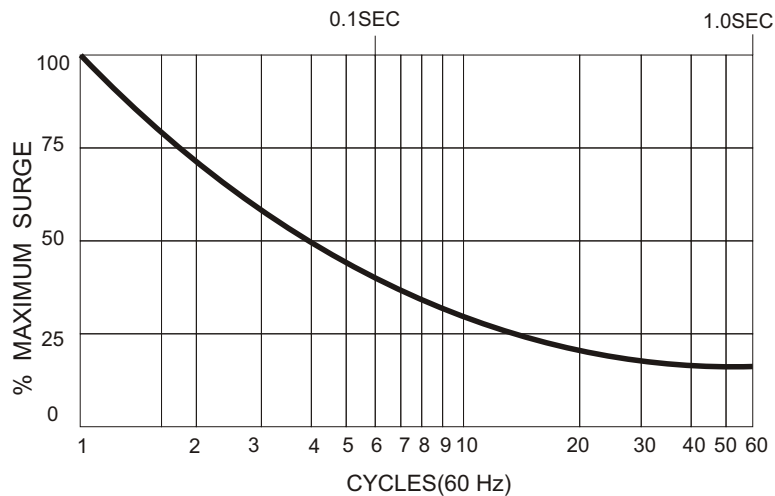
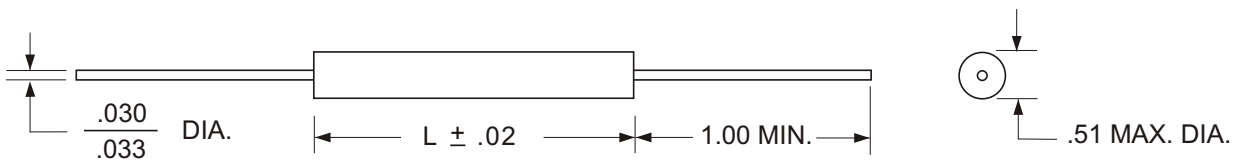


FIG.3
PACKAGE STYLE



ALL DIMENSIONS IN INCHES

Maximum lead and terminal temperature for soldering, 3/8 inch form case, 5 seconds at 250°C

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