



Micro Commercial Components
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DR750 THRU DR7510

6 Amp Glass Passivated Rectifier 50 - 1000 Volts

Features

- Low Cost
- High Current Capability
- High Surge Current Capability
- Low Leakage

Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Maximum Thermal Resistance; 10°C/W Junction To Ambient

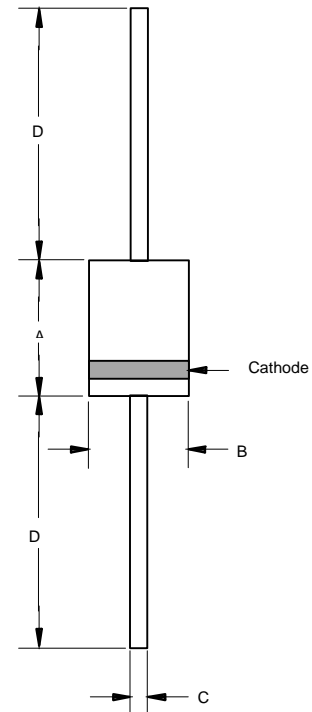
| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| DR750 | --- | 50V | 35V | 50V |
| DR751 | --- | 100V | 70V | 100V |
| DR752 | --- | 200V | 140V | 200V |
| DR754 | --- | 400V | 280V | 400V |
| DR756 | --- | 600V | 420V | 600V |
| DR758 | --- | 800V | 560V | 800V |
| DR7510 | --- | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|-------------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 6.0A | $T_A = 60^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 200A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | V_F | 1.1V | $I_{FM} = 6.0\text{A}; T_J = 25^\circ\text{C}^*$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 10 μA 1mA | $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$ |
| Typical Junction Capacitance | C_J | 100pF | Measured at 1.0MHz, $V_R=4.0\text{V}$ |

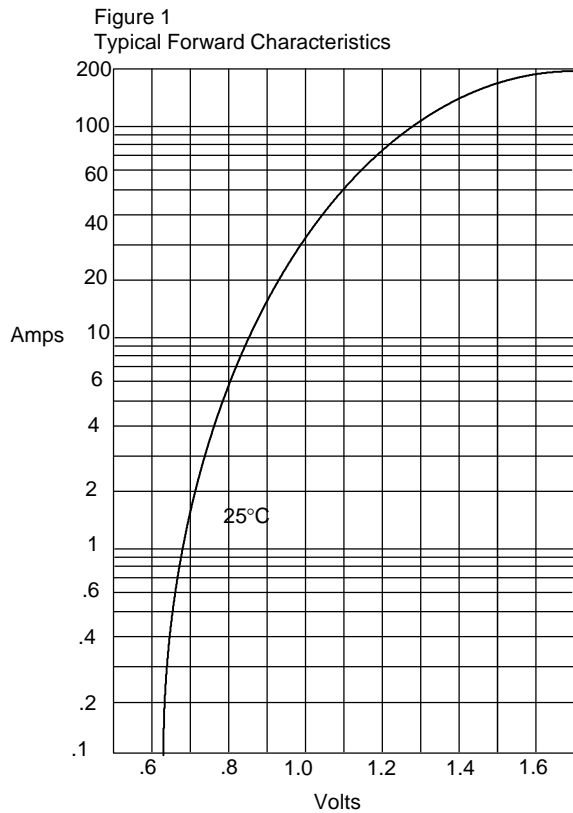
*Pulse test: Pulse width 300 μsec , Duty cycle 1%

R-6

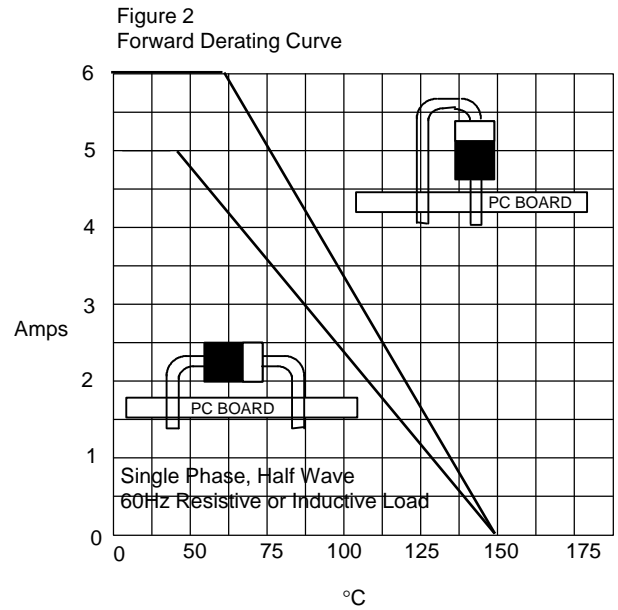


| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|-------|------|------|
| | INCHES | | MM | | |
| A | .340 | .360 | 8.60 | 9.10 | |
| B | .340 | .360 | 8.60 | 9.10 | |
| C | .048 | .052 | 1.20 | 1.30 | |
| D | 1.000 | --- | 25.40 | --- | |

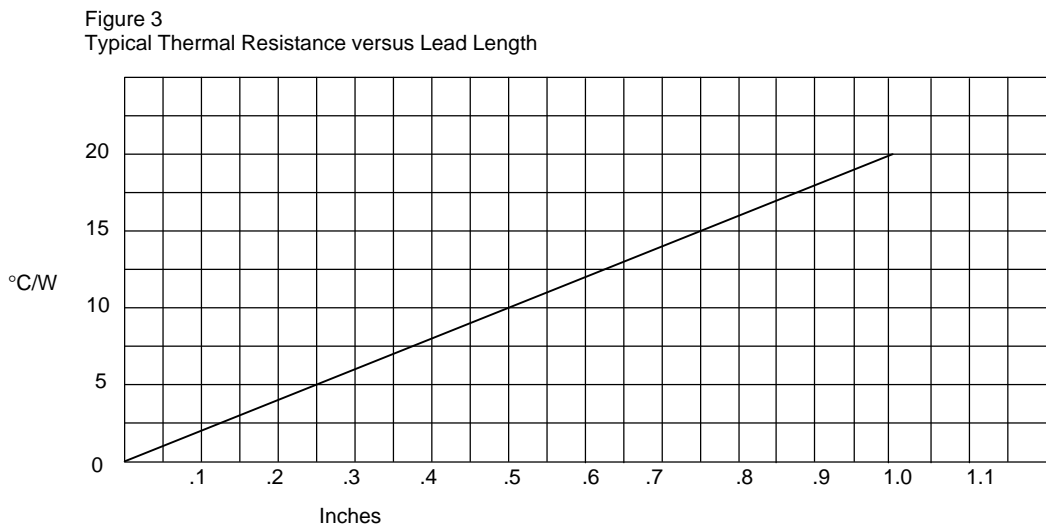
DR750 thru DR7510



Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C



Thermal Resistance - °C/W versus
Equal Lead Length To Heat Sink - Inches

DR750 thru DR7510

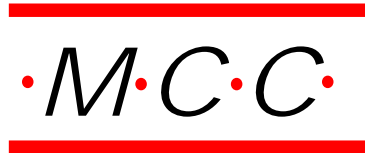
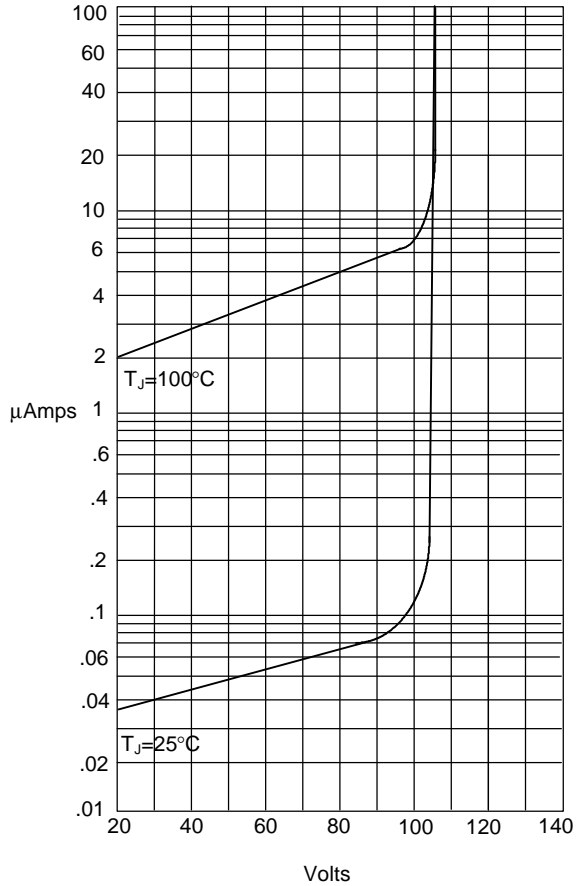
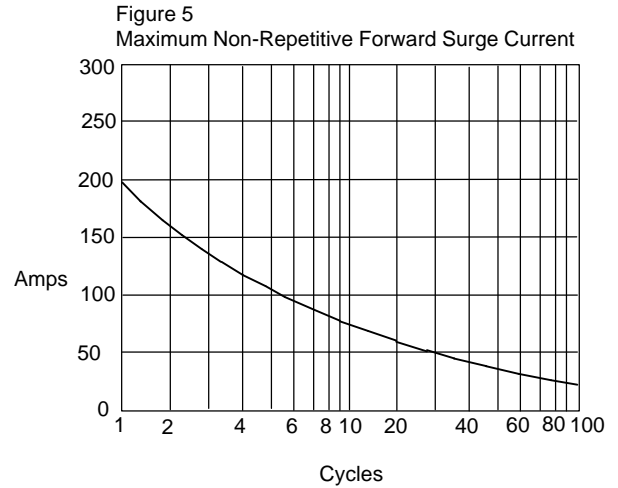


Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles