



Micro Commercial Components  
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**MR750  
 thru  
 MR760**

**Features**

- Low Cost
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Low Leakage

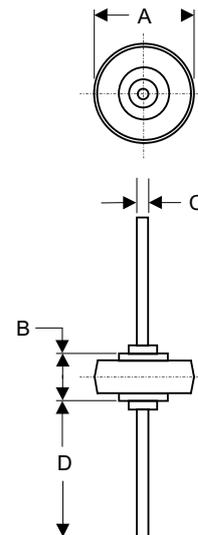
**Maximum Ratings**

- Operating Temperature: -65°C to +175°C
- Storage Temperature: -65°C to +175°C
- Maximum Thermal Resistance; 10°C/W Junction To Ambient

**6 Amp Rectifier  
 50 - 1000 Volts**

**LEADED BUTTON**

| MCC Catalog Number | Device Marking Note 1 | Maximum Reccurent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|-----------------------|--|---------------------|-----------------------------|
| MR750              | Green                 | 50V                                    | 35V                 | 50V                         |
| MR751              | Red                   | 100V                                   | 70V                 | 100V                        |
| MR752              | White                 | 200V                                   | 140V                | 200V                        |
| MR754              | Orange                | 400V                                   | 280V                | 400V                        |
| MR756              | Brown                 | 600V                                   | 420V                | 600V                        |
| MR758              | Silver                | 800V                                   | 560V                | 800V                        |
| MR7510             | Blue                  | 1000V                                  | 700V                | 1000V                       |
| MR760              | ---                   | 1000V                                  | 700V                | 1000V                       |



Note 1 : Different colors of cathode band on body denote the voltage rate.

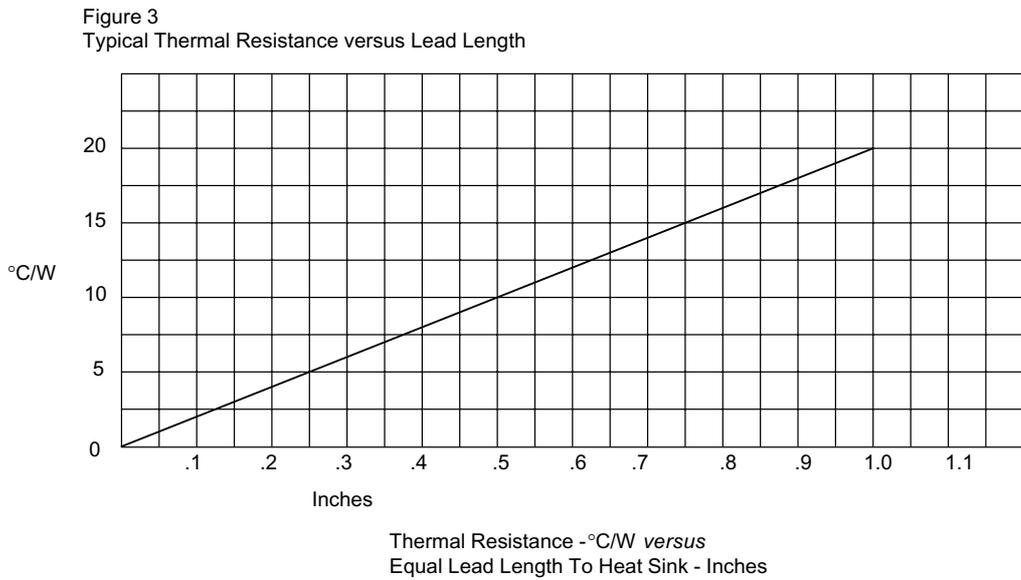
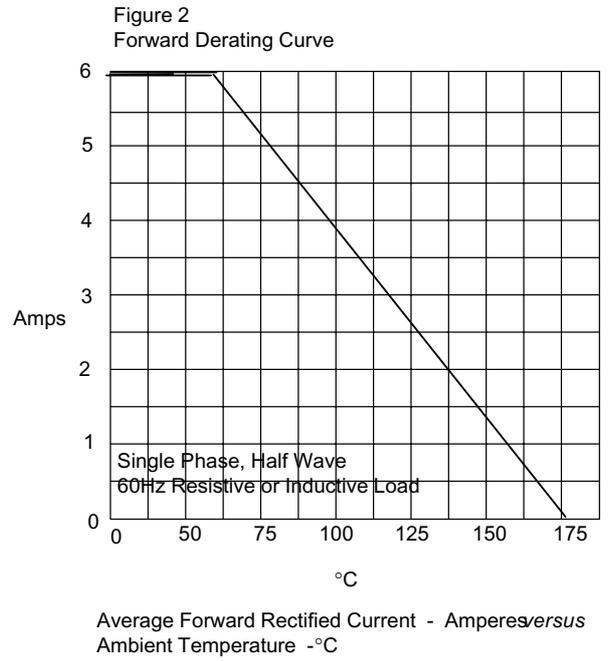
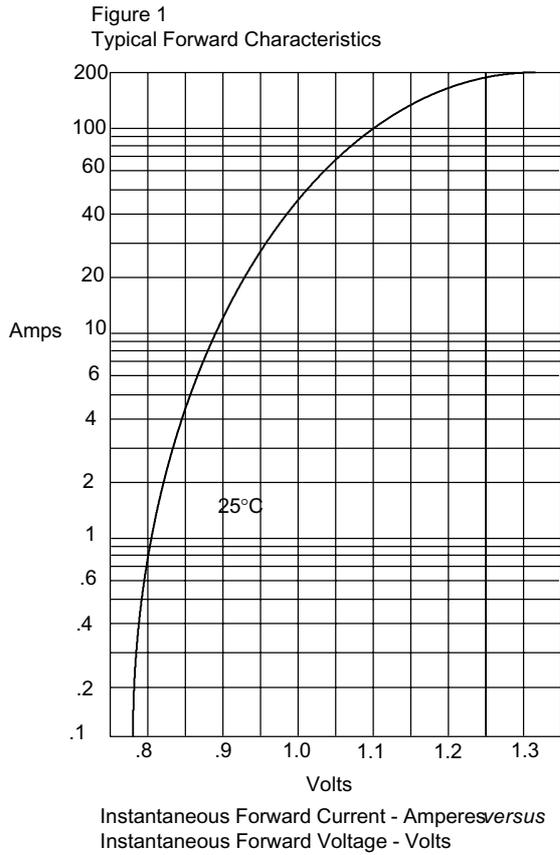
**Electrical Characteristics @ 25°C Unless Otherwise Specified**

|   |             |               |  |
|---|-------------|---------------|--|
| Average Forward Current                                 | $I_{F(AV)}$ | 6.0A          | $T_A = 60^\circ\text{C}$   |
| Peak Forward Surge Current                              | $I_{FSM}$   | 400A          | 8.3ms, half sine   |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 0.9V<br>1.25V | $I_{FM} = 6.0\text{A}; T_J = 25^\circ\text{C}^*$<br>$I_{FM} = 100\text{A}; T_J = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 25µA<br>1.0mA | $T_J = 25^\circ\text{C}$<br>$T_J = 100^\circ\text{C}$  |

| DIM | DIMENSIONS |       |       |       | NOTE |
|-----|------------|-------|-------|-------|------|
|     | INCHES     |       | MM    |       |      |
| A   | .332       | .342  | 8.43  | 8.69  |      |
| B   | .234       | .246  | 5.94  | 6.25  |      |
| C   | .050       | .053  | 1.27  | 1.35  |      |
| D   | .990       | 1.010 | 25.15 | 25.65 | 2PL  |

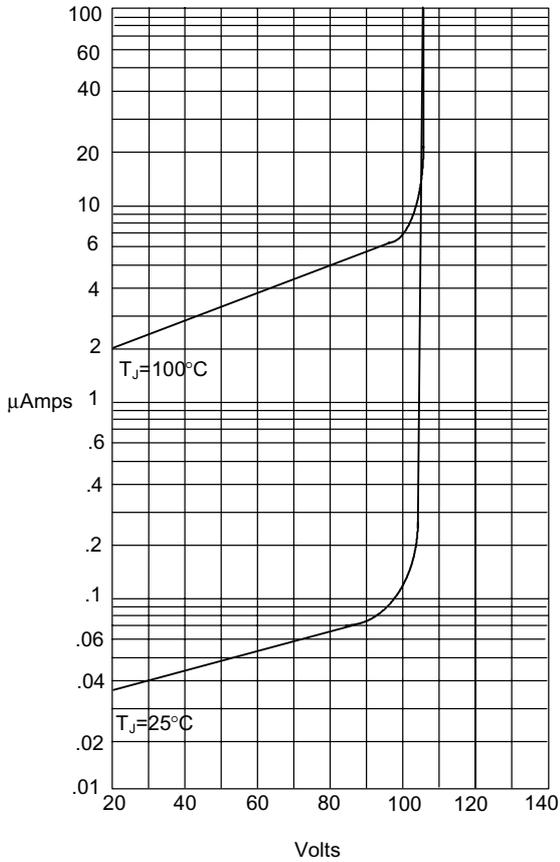
\*Pulse test: Pulse width 300 µsec, Duty cycle 1%

MR750 thru MR760



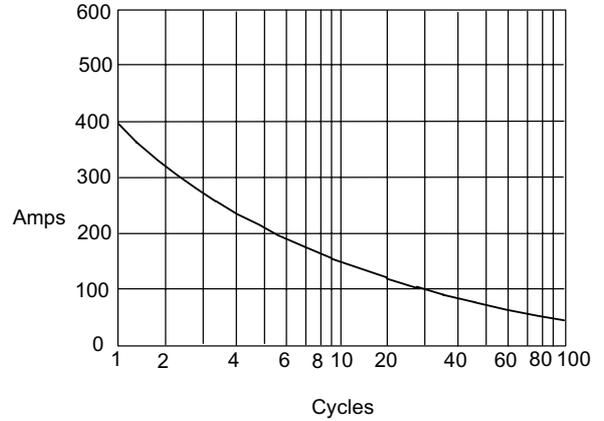
MR750 thru MR760

Figure 4  
 Typical Reverse Characteristics



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

Figure 5  
 Maximum Non-Repetitive Forward Surge Current



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



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