



Micro Commercial Components

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**MR750
 thru
 MR7510**

**6 Amp Rectifier
 50 - 1000 Volts**

Features

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

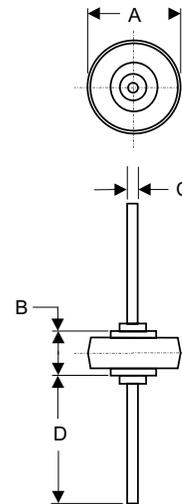
Maximum Ratings

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

MCC Catalog Number	Device Marking Note 1	Maximum Recurrent 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

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

LEADED BUTTON



Electrical Characteristics @ 25°C Unless Otherwise Specified

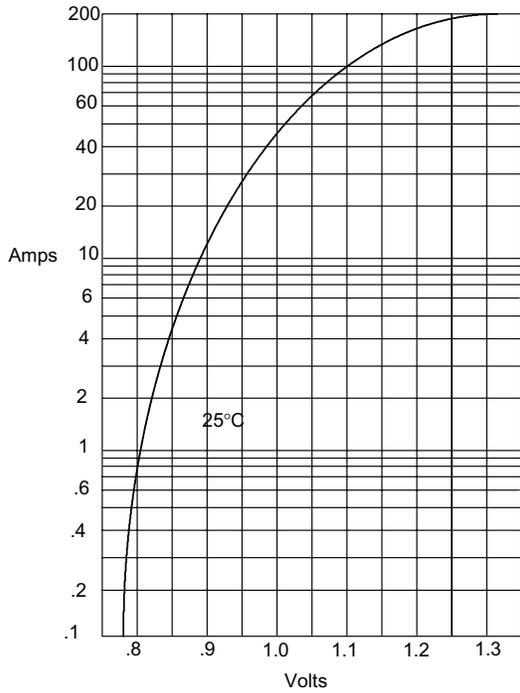
Average Forward Current	$I_{F(AV)}$	6.0A	$T_A = 60^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	400A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	0.9V 1.25V	$I_{FM} = 6.0A;$ $T_J = 25^\circ\text{C}^*$ $I_{FM} = 100A;$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC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

*Pulse test: Pulse width 300 μ sec, Duty cycle 1%

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

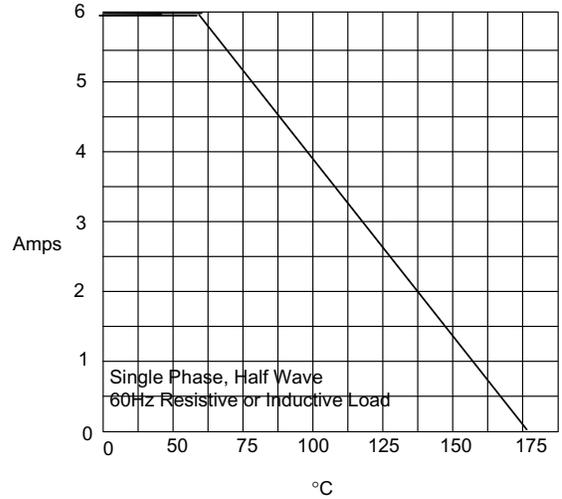
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Figure 1
Typical Forward Characteristics



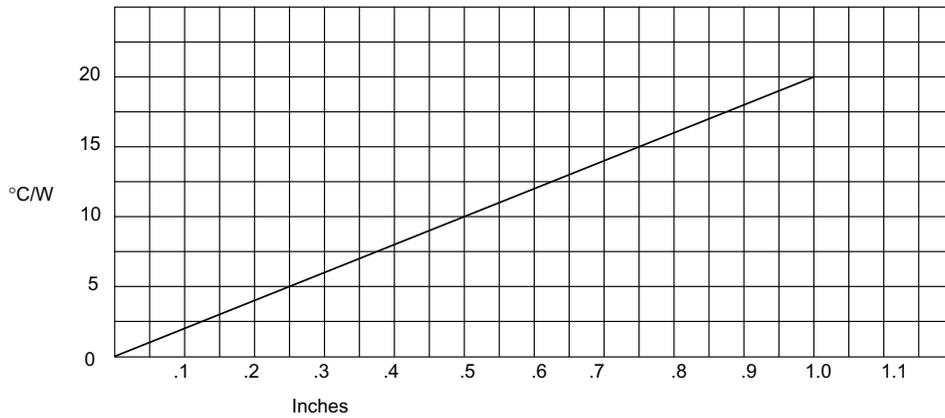
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



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

Figure 3
Typical Thermal Resistance versus Lead Length



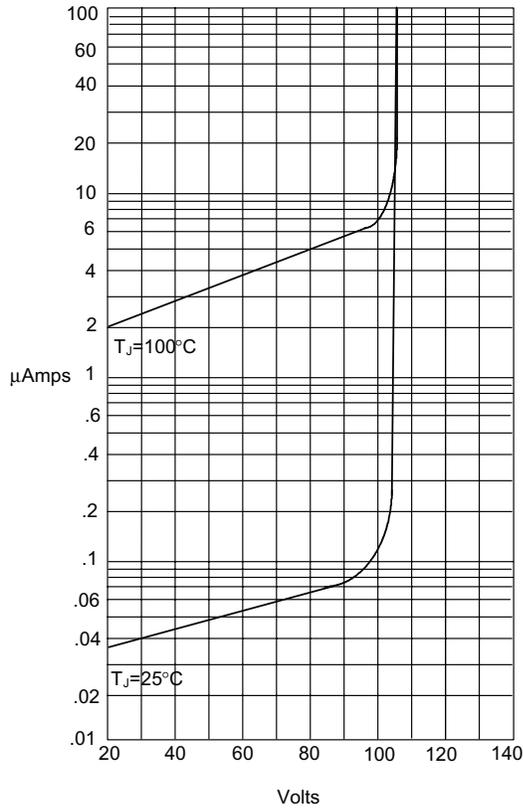
Thermal Resistance - °C/W *versus*
Equal Lead Length To Heat Sink - Inches

MR750 thru MR7510



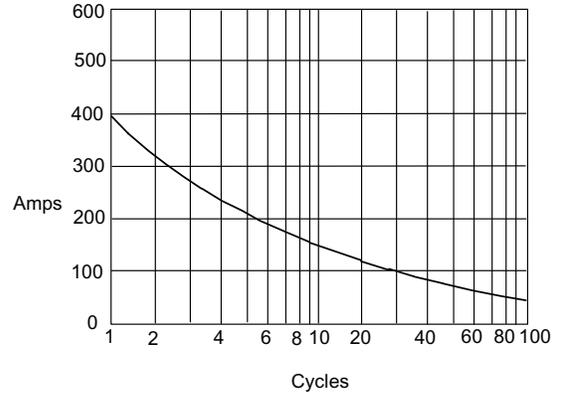
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Figure 4
Typical Reverse Characteristics



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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