



Micro Commercial Components
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MR750 thru MR7510

Features

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

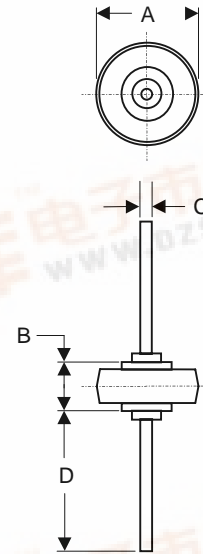
Maximum Ratings

- 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

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MR750	---	50V	35V	50V
MR751	---	100V	70V	100V
MR752	---	200V	140V	200V
MR754	---	400V	280V	400V
MR756	---	600V	420V	600V
MR758	---	800V	560V	800V
MR7510	---	1000V	700V	1000V

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	$I_{FM} = 6.0\text{A}; T_J = 25^\circ\text{C}^*$ $I_{FM} = 100\text{A}; T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	25 μ A 1.0mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$

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

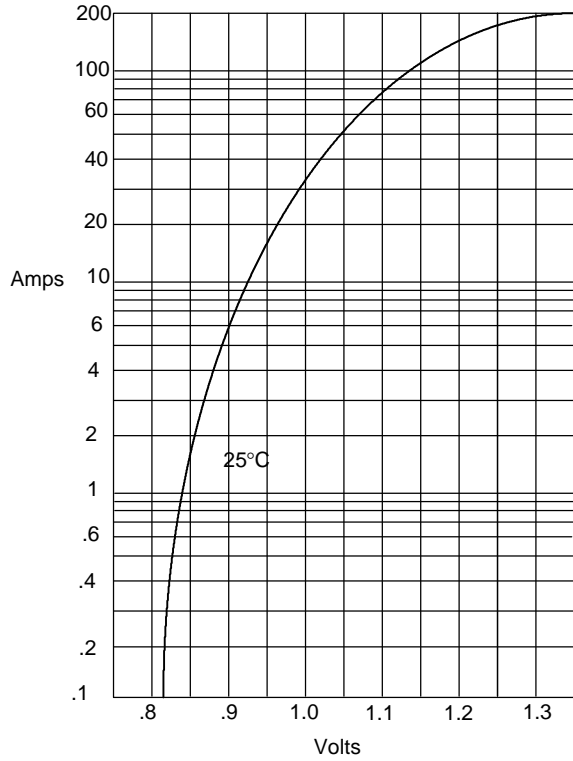
*Pulse test: Pulse width 300 μ sec, Duty cycle 1%



MR750 thru MR7510

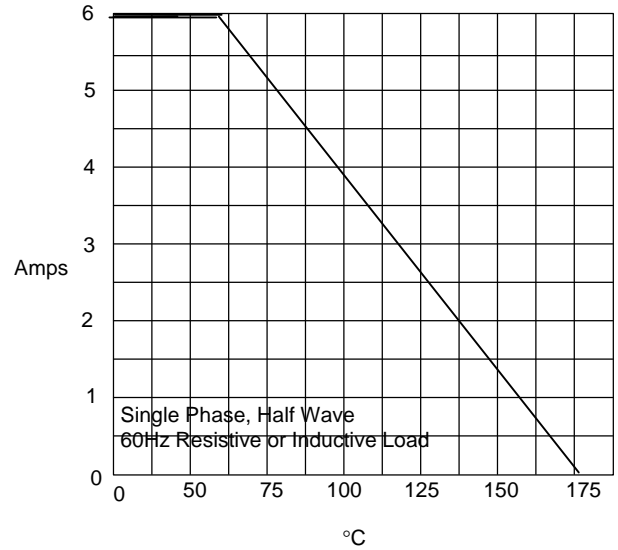


Figure 1
Typical Forward Characteristics



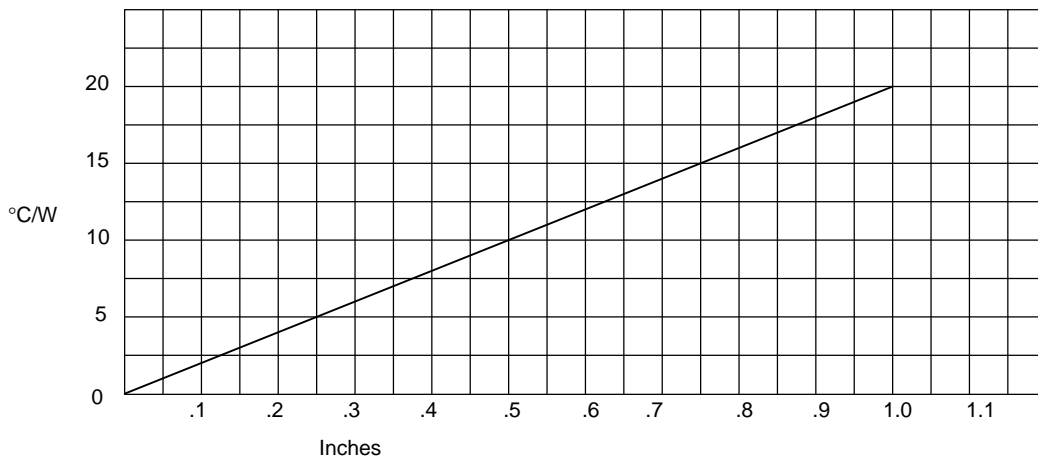
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



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

Figure 3
Typical Thermal Resistance versus Lead Length

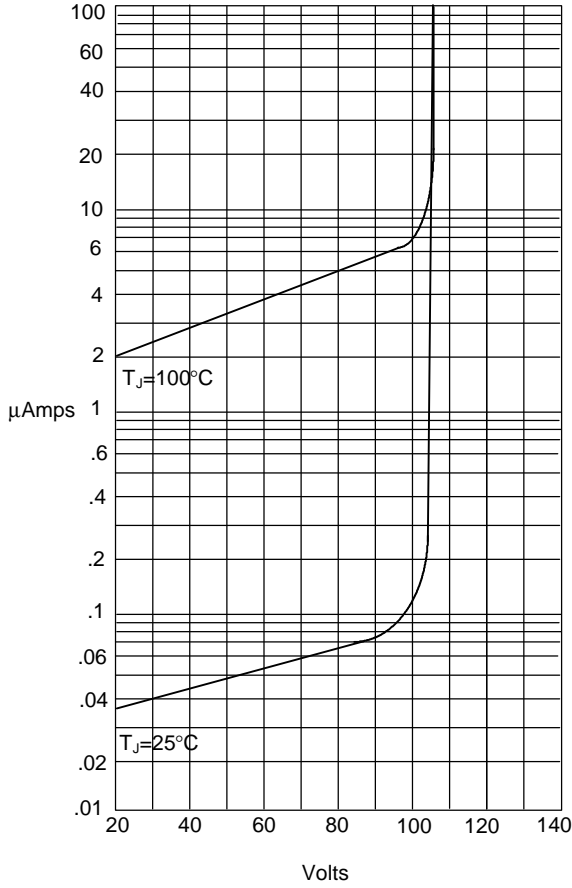


Thermal Resistance - °C/W *versus*
Equal Lead Length To Heat Sink - Inches

MR750 thru MR7510

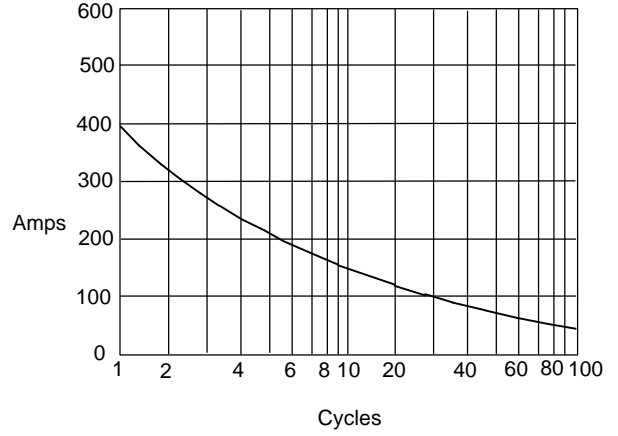


Figure 4
Typical Reverse Characteristics



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