Obsolete

Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

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 Reccurrent 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

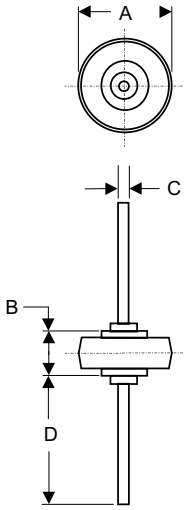
Note 1 : Different colors of cathode band on body denote the voltage rate.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	6.0A	T_A = 60°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°C* I_{FM} = 100A; T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	25µA 1.0mA	T_J = 25°C T_J = 100°C

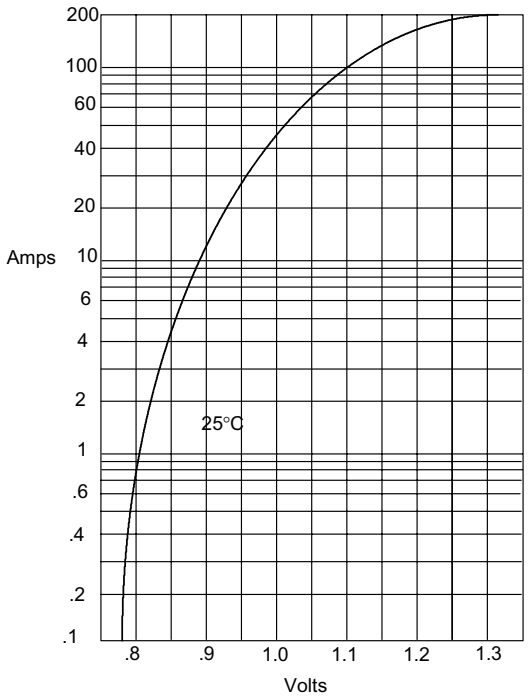
*Pulse test: Pulse width 300 µsec, Duty cycle 1%

LEADED BUTTON



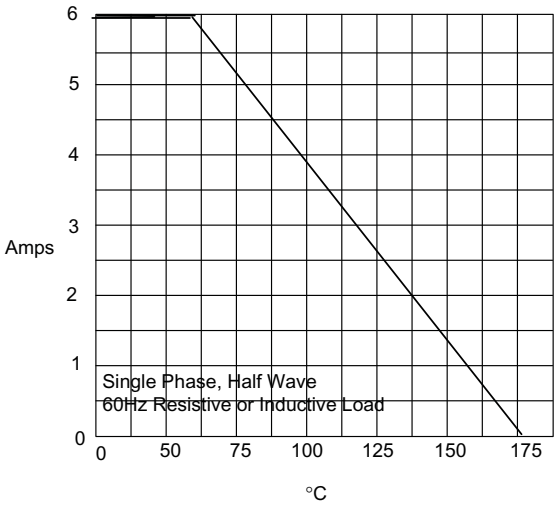
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.332	.342	8.43	8.69	
B	.234	.246	5.94	6.25	
C	.050	.053	1.27	1.35	
D	.990	1.010	25.15	25.65	2PL

Figure 1
Typical Forward Characteristics



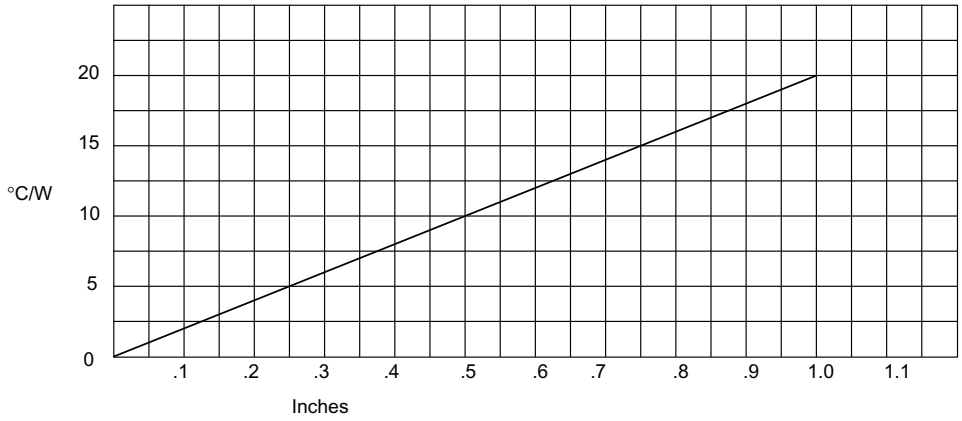
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



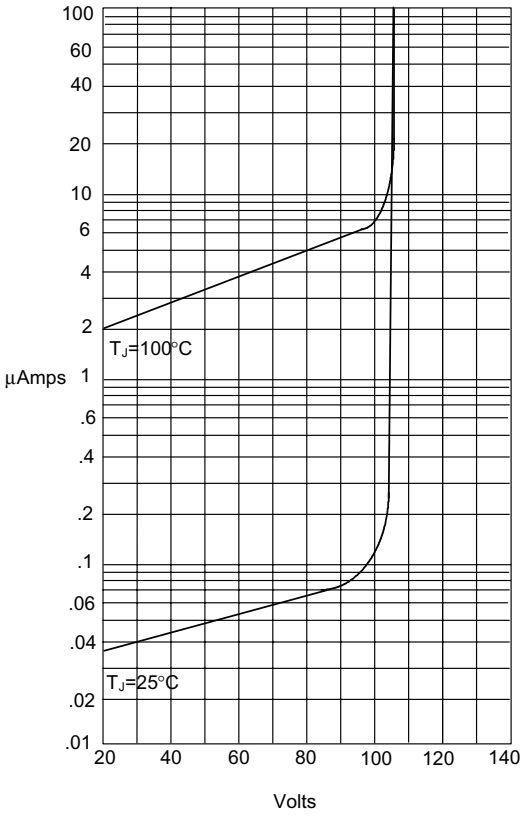
Average Forward Rectified Current - Amperes *versus*
Ambient Temperature -°C

Figure 3
Typical Thermal Resistance versus Lead Length



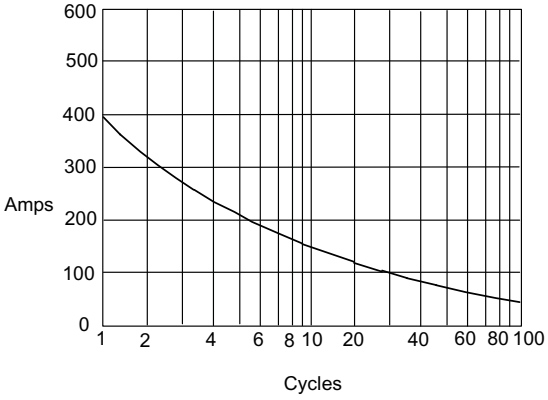
Thermal Resistance -°C/W *versus*
Equal Lead Length To Heat Sink - Inches

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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