Chatsworth, CA
Microsemi
Progress Powered by Technology

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MB805 THRU MB810

8 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

Features

- Mounting Hole For #6 Screw
- Ceramic Case
- Any Mounting Position
- Surge Rating Of 125 Amps

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

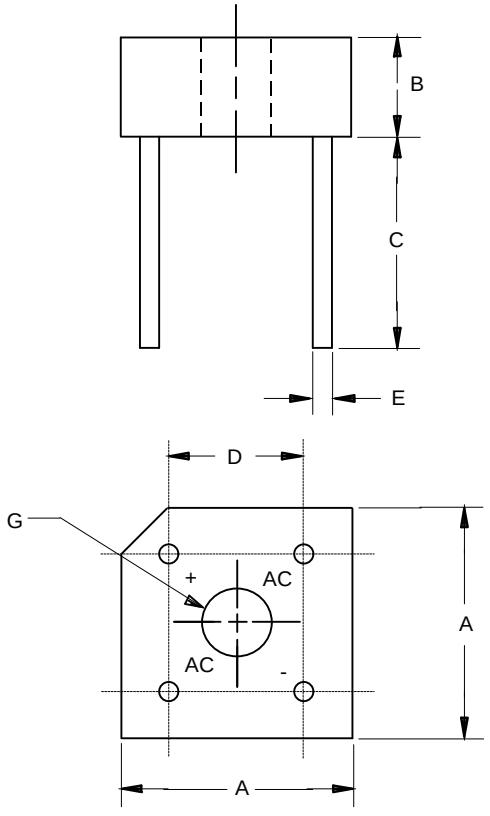
Microsemi Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MB805	MB805	50V	35V	50V
MB81	MB81	100V	70V	100V
MB82	MB82	200V	140V	200V
MB84	MB84	400V	280V	400V
MB86	MB86	600V	420V	600V
MB88	MB88	800V	560V	800V
MB810	MB810	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	8.0A	T_C = 50°C
Peak Forward Surge Current	I_{FSM}	125A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	I_{FM} = 4.0A per element; T_A = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10µA 0.2mA	T_J = 25°C T_J = 100°C

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

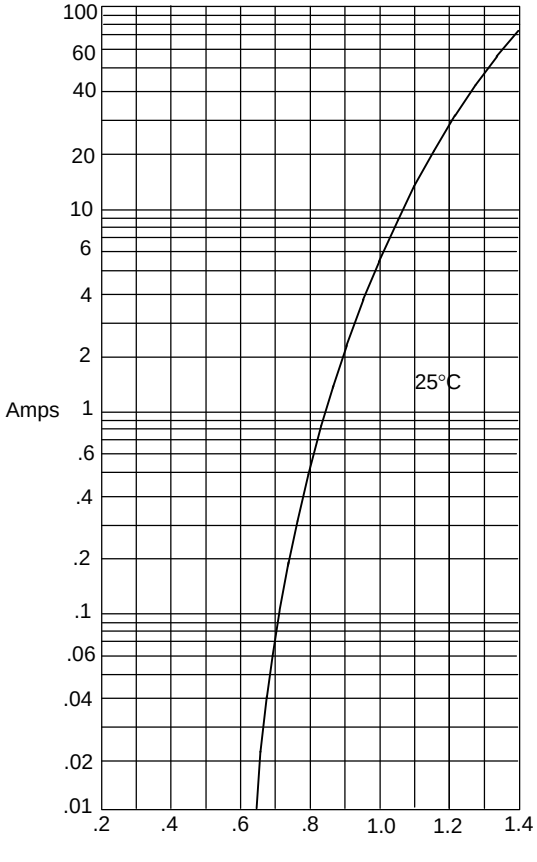
BR-6



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	---	.610	---	15.50	2PL
B	---	.250	---	6.33	
C	---	.750	---	19.20	
D	.405	.444	10.30	11.30	2PL
E	.040	---	1.00	---	4PL/TYP
G	.145	---	3.70	---	∅

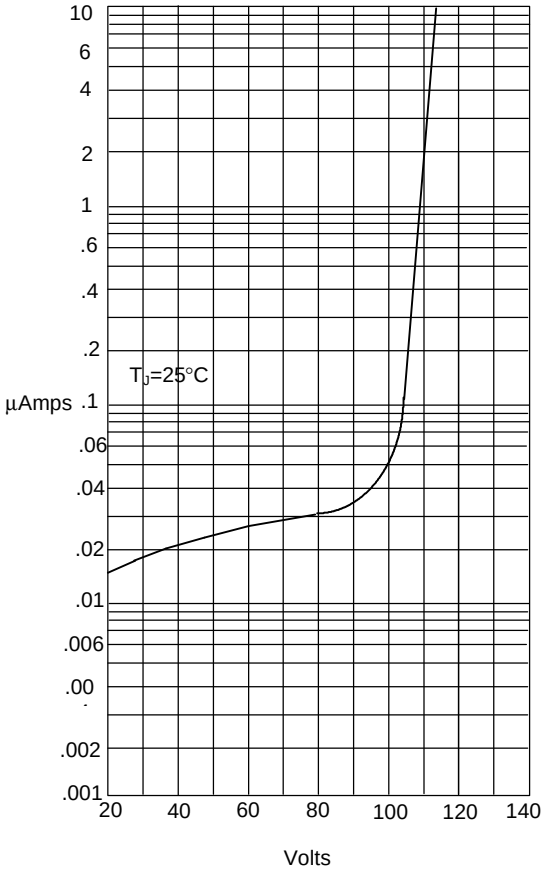
MB805 thru MB810

Figure 1
Typical Forward Characteristics



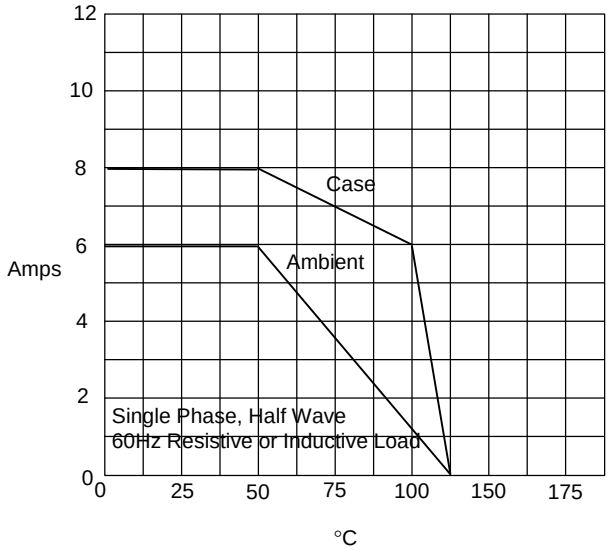
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



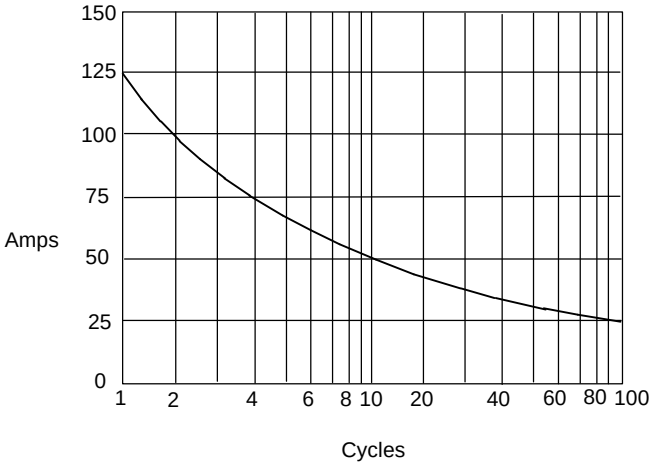
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



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

Figure 4
Maximum Non-Repetitive Forward Surge Current



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