

Obsolete

M.C.C.

Micro Commercial Components

RoHS COMPLIANT

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**MP2505
THRU
MP2510**

Features

- Mounting Hole For #8 Screw
- Plastic Case With Metal Bottom
- Any Mounting Position
- Surge Rating Of 300 Amps
- UL Recognized File # E165989
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

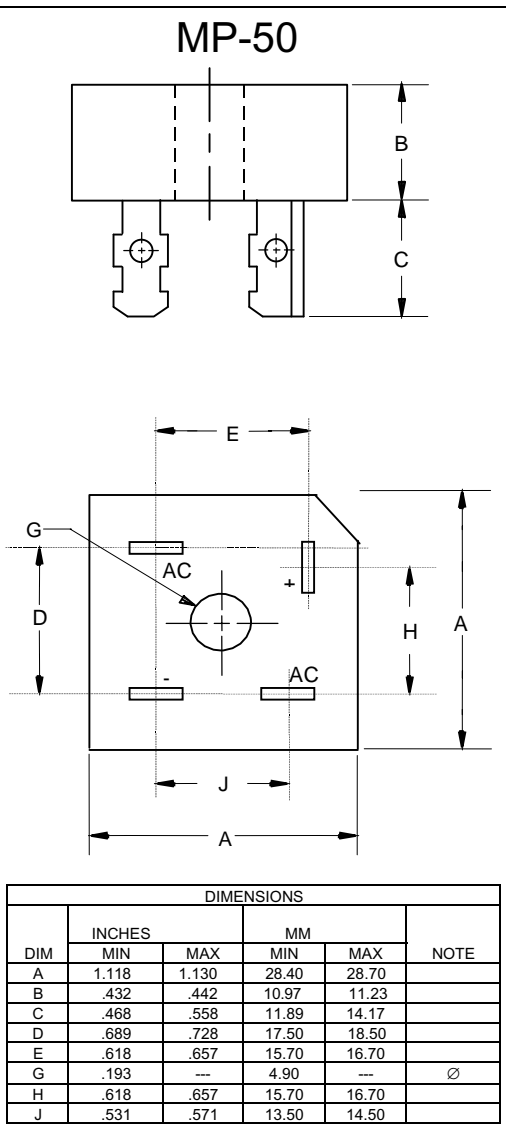
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Mounting Torque: 20 in-lbs Maximum

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MP2505	MP2505	50V	35V	50V
MP251	MP251	100V	70V	100V
MP252	MP252	200V	140V	200V
MP254	MP254	400V	280V	400V
MP256	MP256	600V	420V	600V
MP258	MP258	800V	560V	800V
MP2510	MP2510	1000v	700V	1000v

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	25.0A	$T_C = 55^\circ C$
Peak Forward Surge Current	I_{FSM}	300A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	$I_{FM} = 12.5A$ per element; $T_J = 25^\circ C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5µA 500uA	$T_J = 25^\circ C$ $T_J = 125^\circ C$
I^2t Rating for Fusing $t < 8.3mS$	I^2t	375	A^2S

**25 Amp Single Phase Bridge Rectifier
50 to 1000 Volts**

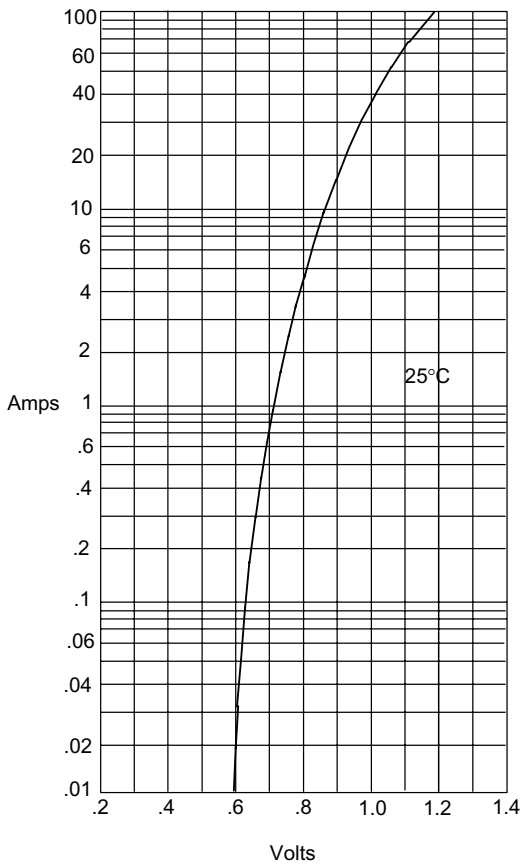


Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

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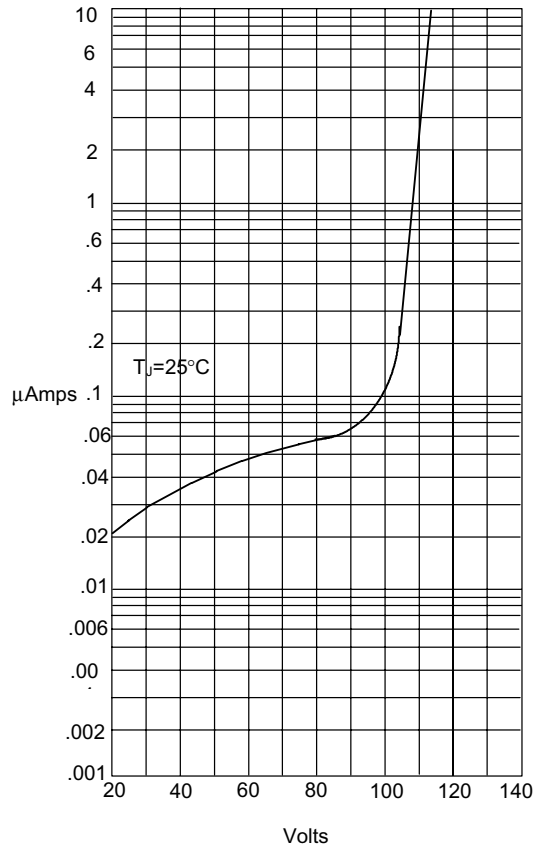
MP2505 thru MP2510

Figure 1
Typical Forward Characteristics



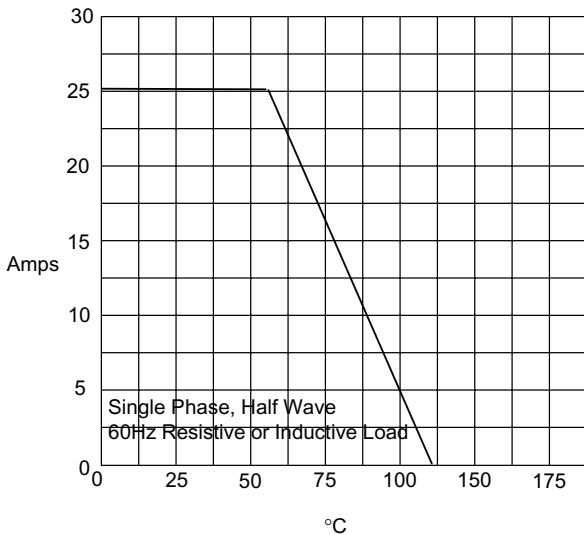
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



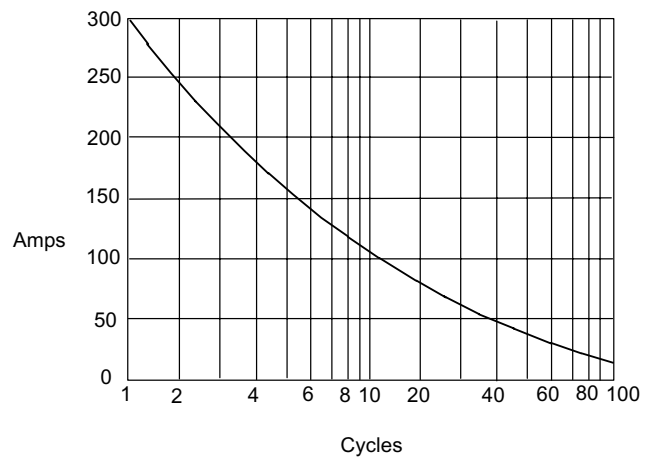
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



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

Figure 4
Peak Forward Surge Current



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



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Ordering Information

Device	Packing
(Part Number)-BP	Bulk; 400Pcs/Ctn

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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