

**Micro Commercial Components** 



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

### **Features**

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

## Maximum Ratings

- Mounting Torgue: 20 in-lbs Maximum Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MP1505	MP1505	50V	35V	50V
MP151	MP151	100V	70V	100V
MP152	MP152	200V	140V	200V
MP154	MP154	400V	280V	400V
MP156	MP156	600V	420V	400V
MP158	MP158	800V	560V	800V
MP1510	MP1510	1000v	700V	1000V

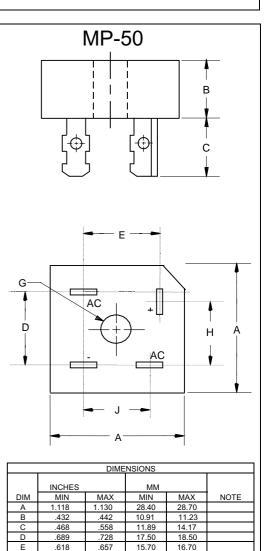
#### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	15.0A	T <sub>C</sub> = 55°C
Peak Forward Surge Current	I <sub>FSM</sub>	300A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V <sub>F</sub>	1.1V	I <sub>FM</sub> = 7.5A per element; T <sub>J</sub> = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5μΑ 500uA	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C

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

# **MP1505** THRU **MP1510**

## **15 Amp Single Phase Bridge Rectifier** 50 to 1000 Volts



4.90

15.70

13.50

16.70

14.50

.193

.618

.531

.657

.571

G

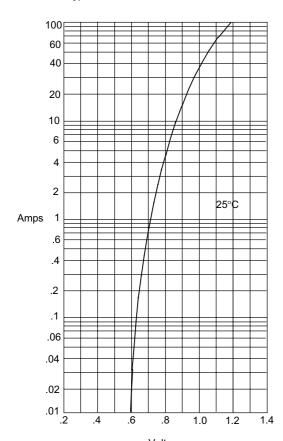
# – www.mccsemi.com

Ø

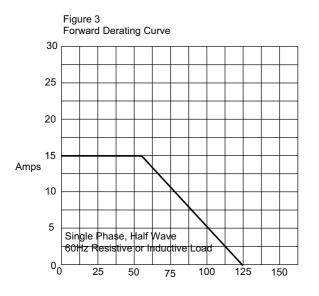


### MP1505 thru MP1510

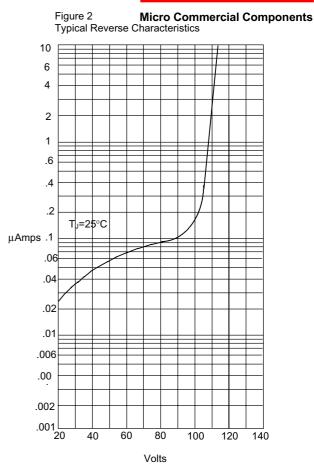
Figure 1 Typical Forward Characteristics



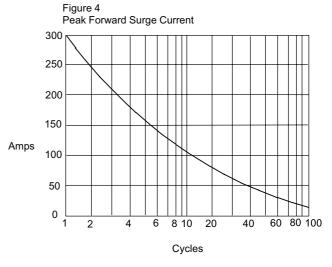
Volts Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes versus Case Temperature -  $^\circ \rm C$ 



Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

- www.mccsemi.com



### **Ordering Information**

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

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

#### **\*\*\*IMPORTANT NOTICE\*\*\***

*Micro Commercial Components Corp.* reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

#### \*\*\*LIFE SUPPORT\*\*\*

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

#### \*\*\*CUSTOMER AWARENESS\*\*\*

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

## *www.mccsemi.com*