Micro Commercial Components
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MP1505W THRU MP1510W

15 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

Features

- UL Recognized File # E165989
- Mounting Hole For #8 Screw, Plastic Case with Metal Bottom
- Surge Rating Of 300 Amps
- Case to Terminal Isolation Voltage 2500V
- Halogen free available upon request by adding suffix "-HF"
- 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 Torque: 2.0 N.m, Tolerance:+/-10%
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance, Junction to Case :Rthjc=6.3°C/W

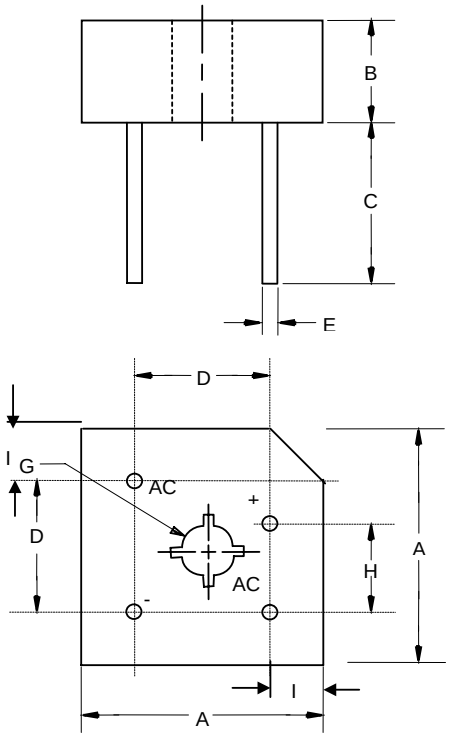
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MP1505W	MP1505W	50V	35V	50V
MP151W	MP151W	100V	70V	100V
MP152W	MP152W	200V	140V	200V
MP154W	MP154W	400V	280V	400V
MP156W	MP156W	600V	420V	600V
MP158W	MP158W	800V	560V	800V
MP1510W	MP1510W	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	15.0A	T_C = 55°C
Peak Forward Surge Current	I_{FSM}	300A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	I_{FM} = 7.5A per element; T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5μA 500uA	T_J = 25°C T_J = 125°C

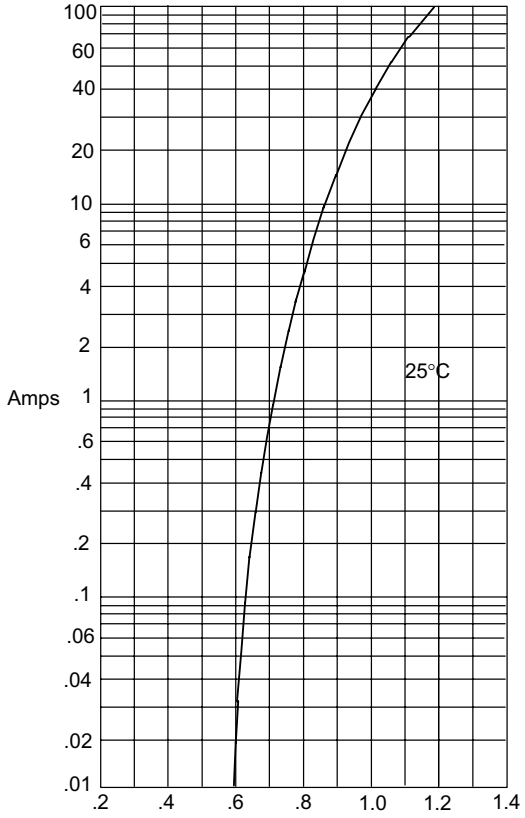
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

MP-50W



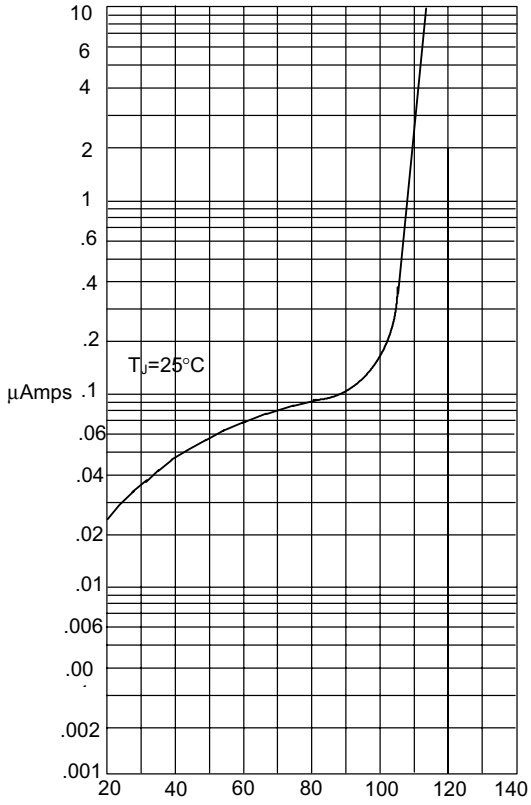
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	1.118	1.130	28.40	28.70	
B	.432	.442	10.97	11.23	
C	.769	---	19.53	---	
D	.673	.752	17.10	19.10	
E	.038	.042	.97	1.07	4PL/TYP
G	.193	---	4.90	---	∅
H	.429	.468	10.90	11.90	
i	.169	.236	4.30	6.00	

Figure 1
Typical Forward Characteristics



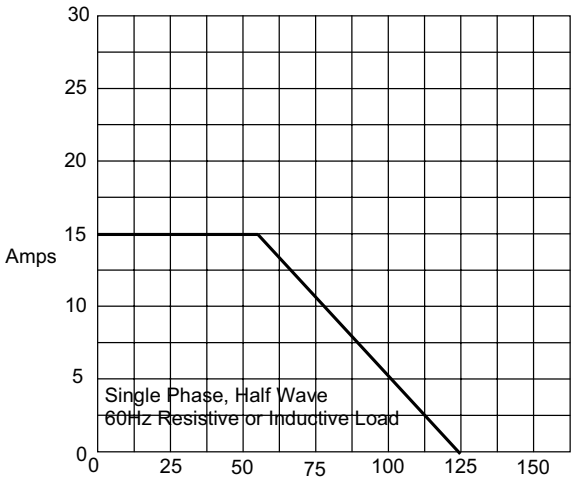
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



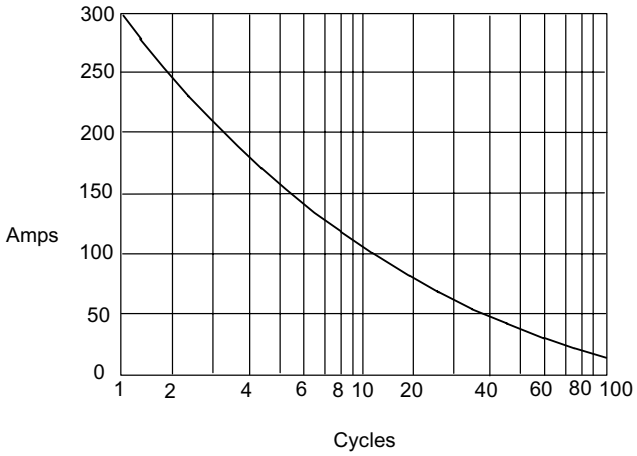
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

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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