



Micro Commercial Components



Micro Commercial Components  
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# MP2505WGP THRU MP2510WGP

## Features

- Mounting Hole For #8 Screw
- Plastic Case with Metal Bottom
- Any Mounting Position
- Surge Rating Of 300 Amps
- Case to Terminal Isolation Voltage 2500V
- UL Recognized File # E165989
- 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

- Operating Temperature: -55C to +125C
- Storage Temperature: -55C to +150C
- Mounting Torque: 2.0 N.m, Tolerance: +/-10%

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MP2505WGP	MP2505WGP	50V	35V	50V
MP251WGP	MP251WGP	100V	70V	100V
MP252WGP	MP252WGP	200V	140V	200V
MP254WGP	MP254WGP	400V	280V	400V
MP256WGP	MP256WGP	600V	420V	600V
MP258WGP	MP258WGP	800V	560V	800V
MP2510WGP	MP2510WGP	1000V	700V	1000V

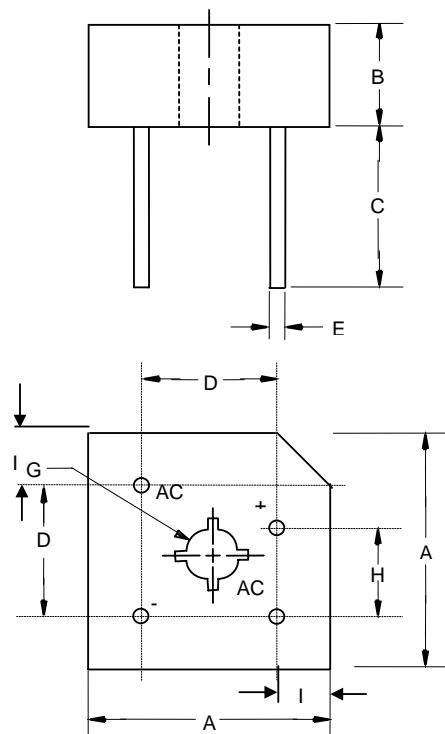
## Electrical Characteristics @ 25°C Unless Otherwise Specified

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;
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5 $\mu$ A 500 $\mu$ A	$T_C = 25^\circ C$ $T_C = 125^\circ C$

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

## 25 Amps Glass Passivated Bridge Rectifier 50 to 1000 Volts

MP-50W



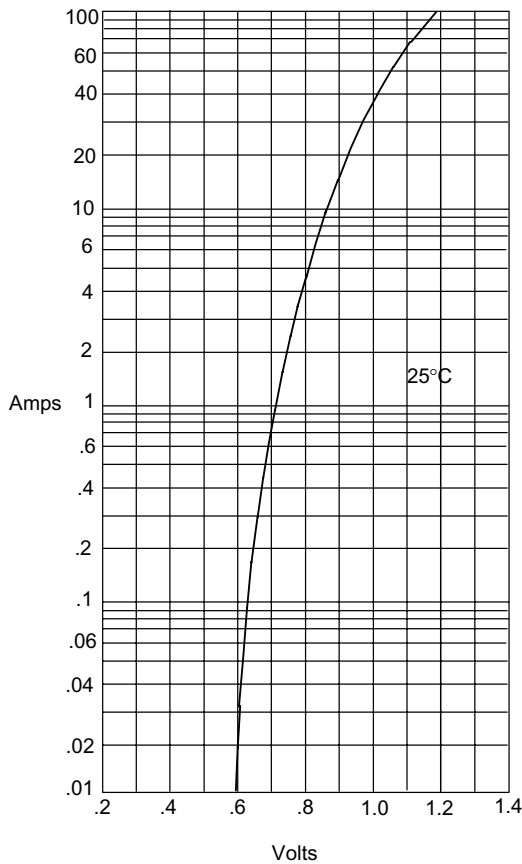
DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	1.120	1.140	28.50	29.00	
B*	.432	.442	10.97	11.23	
C	.769	---	19.53	---	
D	.673	.752	17.10	19.10	
E	.038	.042	.97	1.07	4PL/TYP
G	.193	---	4.90	---	Ø
H	.410	.490	10.40	12.40	
i	.169	.236	4.30	6.00	

\* All Models Available on Dim. B = 7.9mm max. Epoxy Case

[www.mccsemi.com](http://www.mccsemi.com)

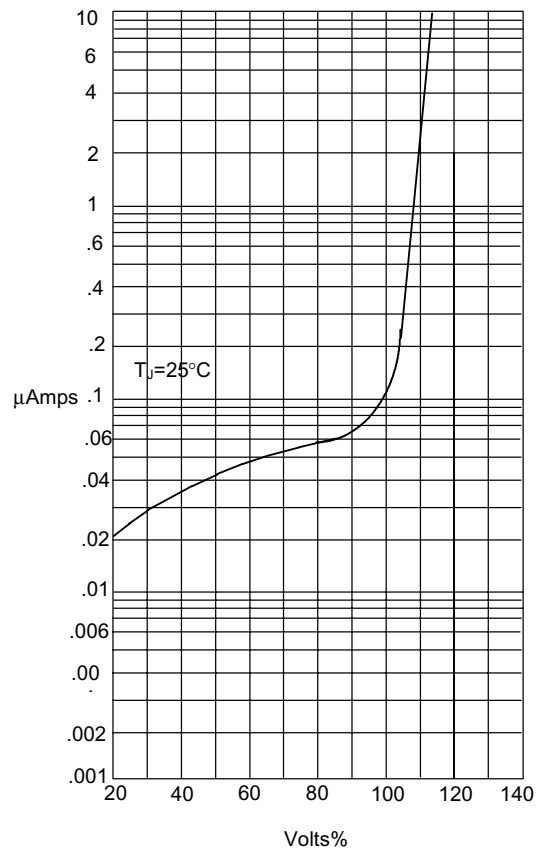
MP2505WGP thru MP2510WGP

Figure 1  
Typical Forward Characteristics



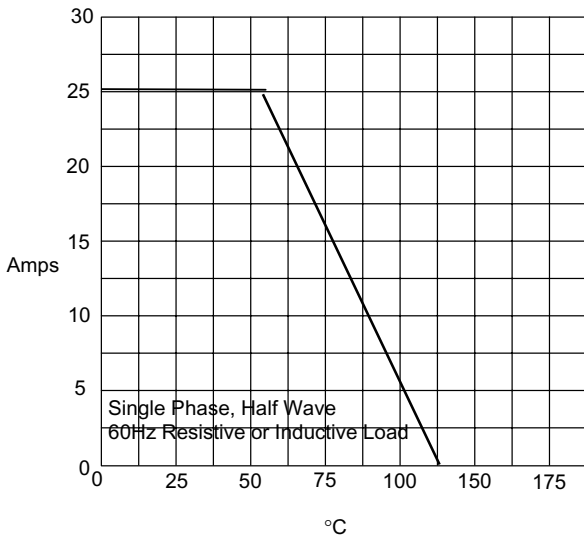
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Typical Reverse Characteristics



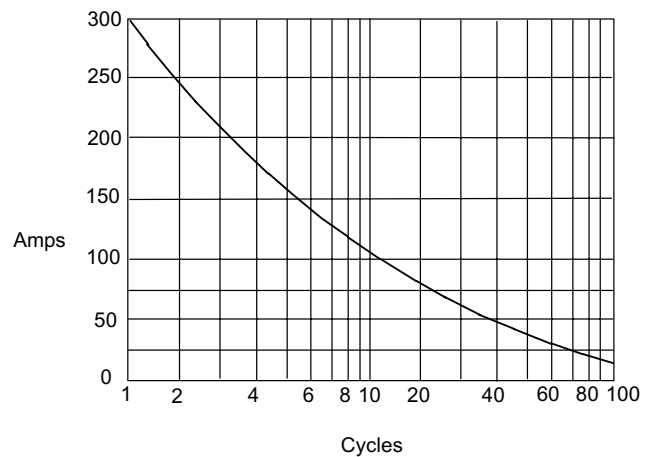
Instantaneous Reverse Leakage Current - MicroAmperes versus  
Percent Of Rated Peak Reverse Voltage - Volts%

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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