



Micro Commercial Components

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**MP1505W-BC01
 THRU
 MP1510W-BC01**

Features

- Plastic Case with Metal Bottom
- Any Mounting Position
- Surge Rating Of 300 Amps
- Case to Terminal Isolation Voltage 2500V

Maximum Ratings

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

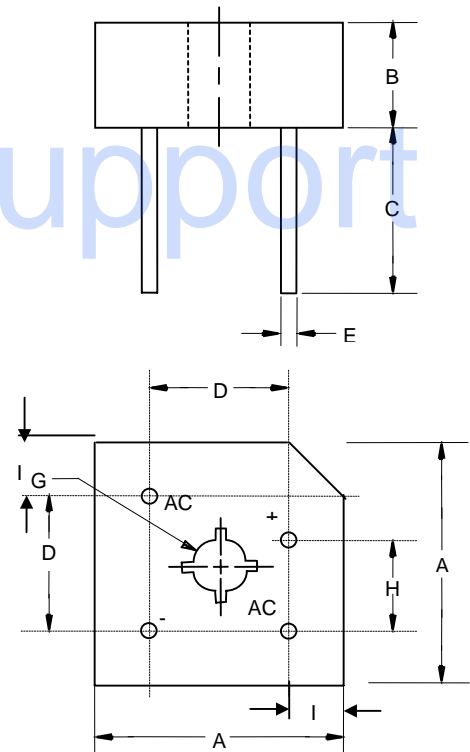
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MP1505W-BC01	MP1505W	50V	35V	50V
MP151W-BC01	MP151W	100V	70V	100V
MP152W-BC01	MP152W	200V	140V	200V
MP154W-BC01	MP154W	400V	280V	400V
MP156W-BC01	MP156W	600V	420V	600V
MP158W-BC01	MP158W	800V	560V	800V
MP1510W-BC01	MP1510W	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	15.0A	$T_C = 55^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	300A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	$I_{FM} = 7.5\text{A}$ per element; $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5 μA 500 μA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
I^2t Rating for Fusing (<8.3mS)	I^2t	373	A^2S

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

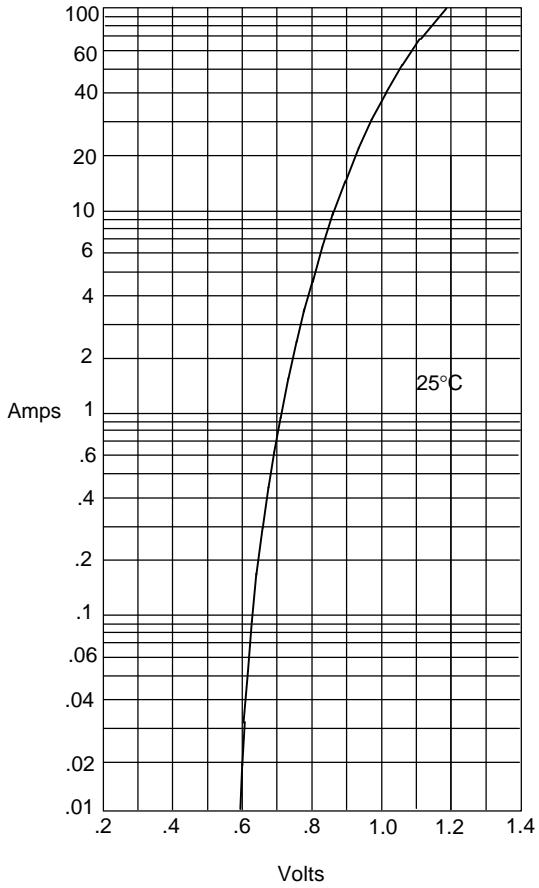
MP-50W



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.118	1.130	28.40	28.70	
B	---	.315	---	8.00	
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	

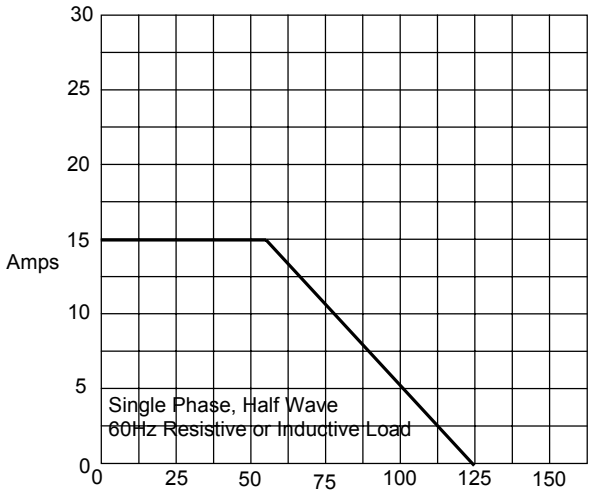
MP1505W-BC01 thru MP1510W-BC01

Figure 1
Typical Forward Characteristics



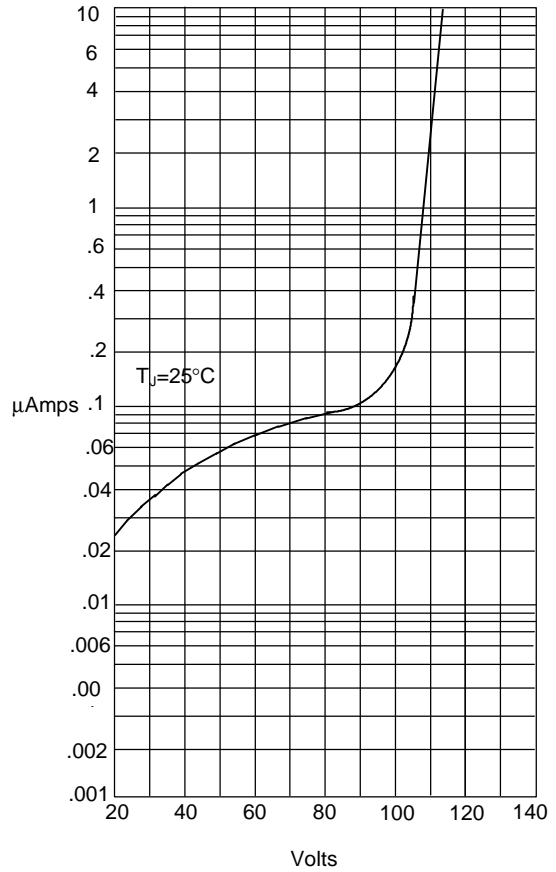
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 3
Forward Derating Curve



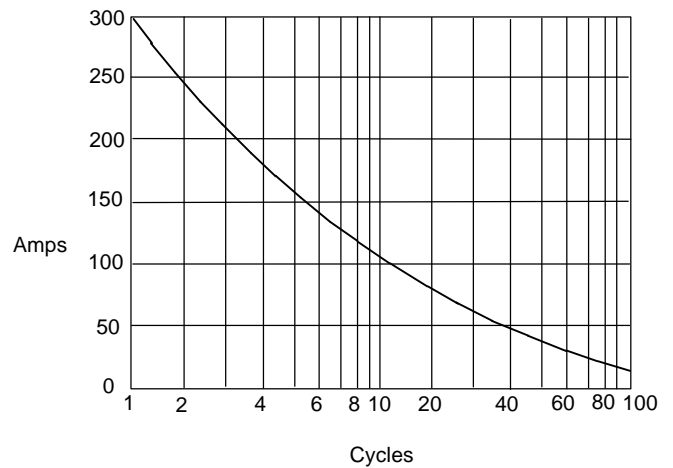
Average Forward Rectified Current - Amperes versus
Case Temperature - °C

Figure 2
Typical Reverse Characteristics



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

Figure 4
Peak Forward Surge Current



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