



Micro Commercial Components  
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**MP1505W-BC01  
 THRU  
 MP1510W-BC01**

**Features**

- High Conductivity Metal Case
- Any Mounting Position
- Surge Rating Of 300 Amps
- Case to Terminal Isolation Voltage 2500V

**Maximum Ratings**

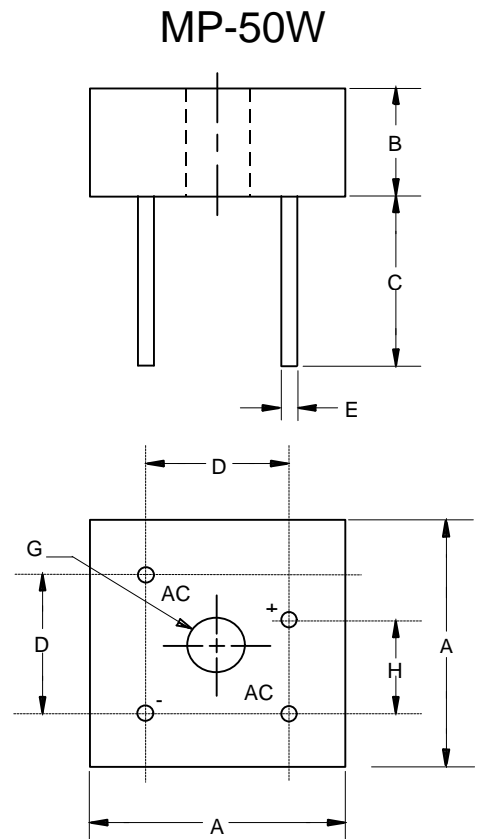
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

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

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 $\mu\text{A}$ 500 $\mu\text{A}$	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
$I^2t$ Rating for Fusing (<8.3mS)	$I^2t$	373	$\text{A}^2\text{S}$

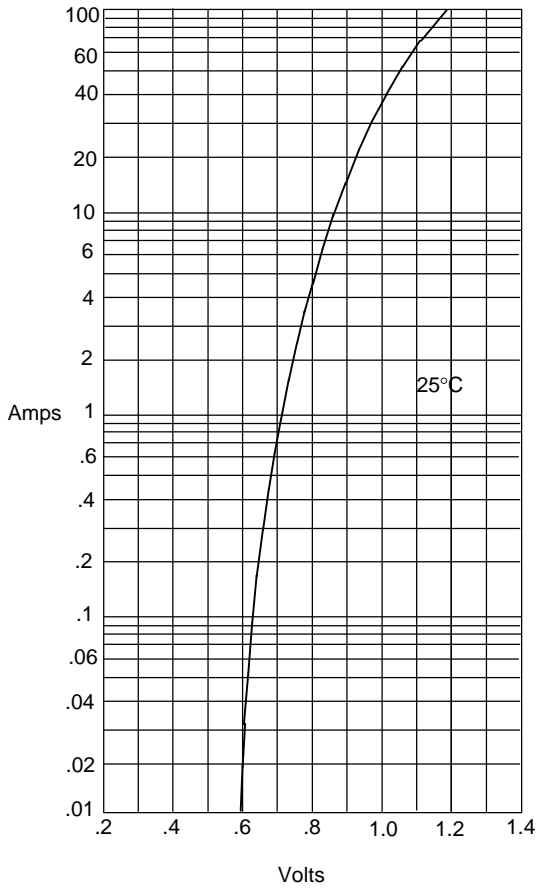


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.118	1.130	28.40	28.70	
B	---	.315	---	8.0	
C	.769	---	19.53	---	
D	.673	.752	17.10	19.10	
E	.038	.042	0.97	1.07	4PL/TYP
G	.193	---	4.90	---	$\varnothing$
H	.429	.468	10.90	11.90	

# MP1505W-BC01 thru MP1510W-BC01

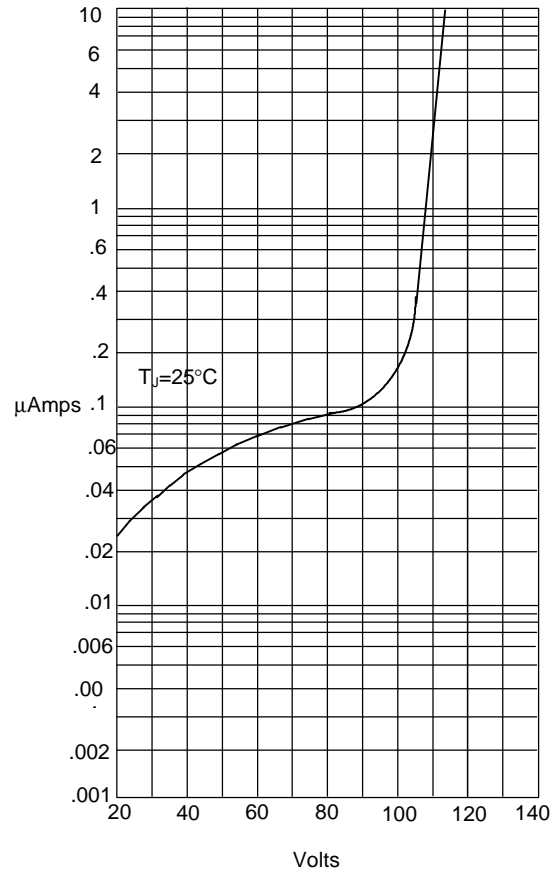


Figure 1  
Typical Forward Characteristics



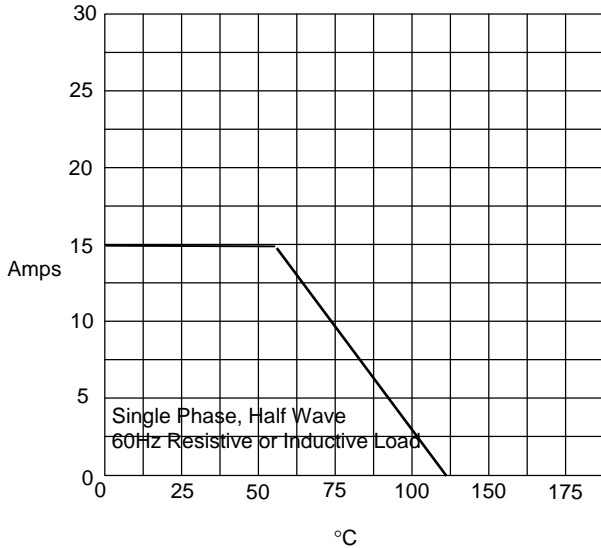
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Typical Reverse Characteristics



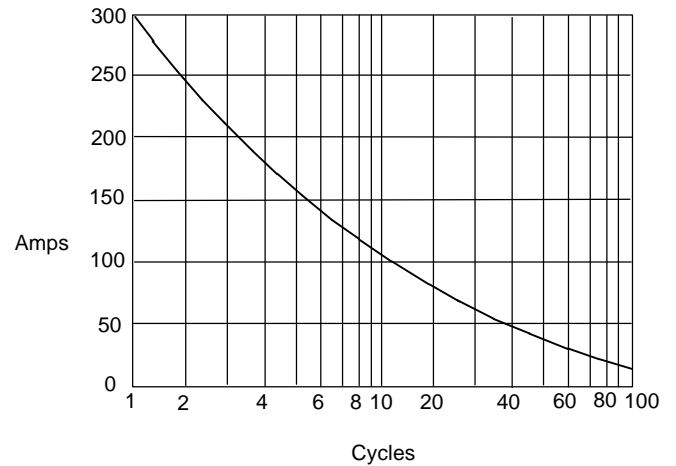
Instantaneous Reverse Leakage Current - MicroAmperes versus  
Percent Of Rated Peak Reverse Voltage - Volts

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