



Micro Commercial Corp.  
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## MP2505 THRU MP2510

### Features

- Mounting Hole For #8 Screw
- Plastic Case With Metal Bottom
- Any Mounting Position
- Surge Rating Of 300 Amps

### 25 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

### Maximum Ratings

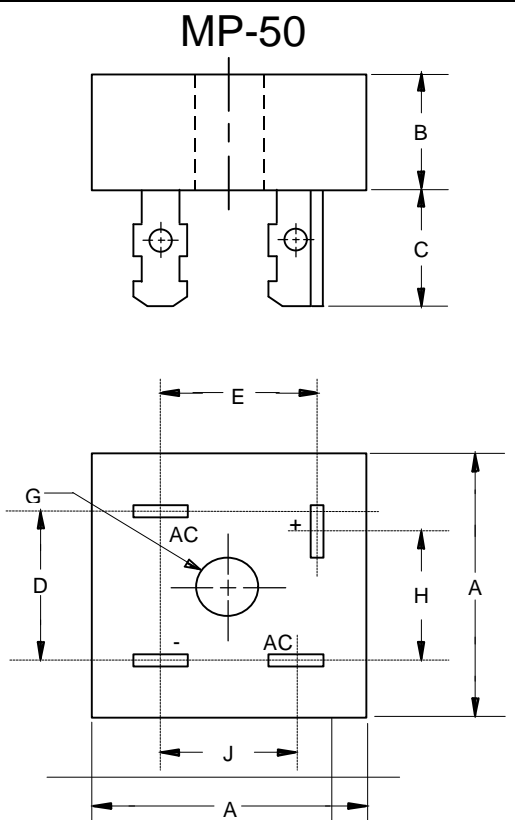
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MP2505	MP2505	50V	35V	50V
MP251	MP251	100V	70V	100V
MP252	MP252	200V	140V	200V
MP254	MP254	400V	280V	400V
MP256	MP256	600V	420V	600V
MP258	MP258	800V	560V	800V
MP2510	MP2510	1000v	700V	1000v

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

Average Forward Current	$I_{F(AV)}$	25.0A	$T_C = 55^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	300A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	$V_F$	1.1V	$I_{FM} = 12.5\text{A}$ 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 $t < 8.3\text{ms}$	$I^2t$	375	$\text{A}^2\text{S}$

\*Pulse test: Pulse width 300  $\mu\text{sec}$ , Duty cycle 1%

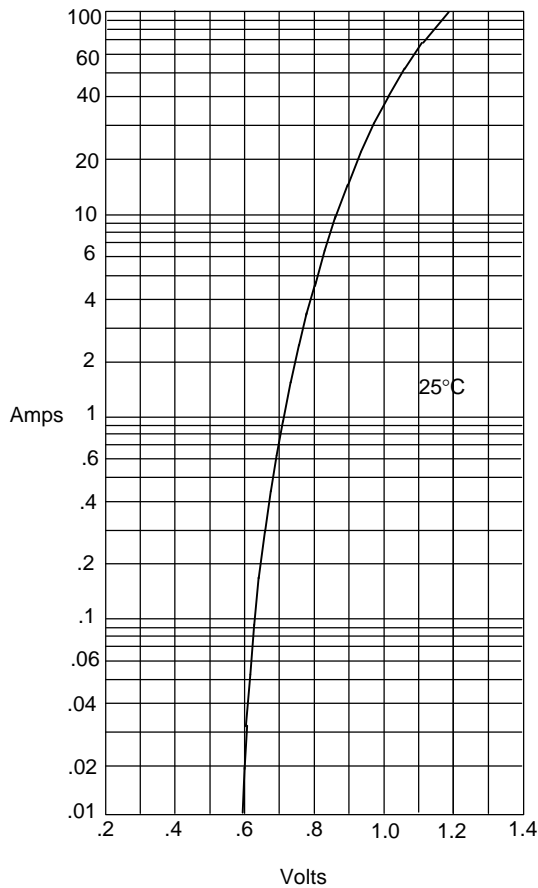


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.118	1.130	28.40	28.70	
B	.432	.442	10.97	11.23	
C	.468	.558	11.89	14.17	
D	.689	.728	17.50	18.50	
E	.618	.657	15.70	16.70	
G	.193	---	4.90	---	Ø
H	.618	.657	15.70	16.70	
J	.531	.571	13.50	14.50	

# MP2505 thru MP2510

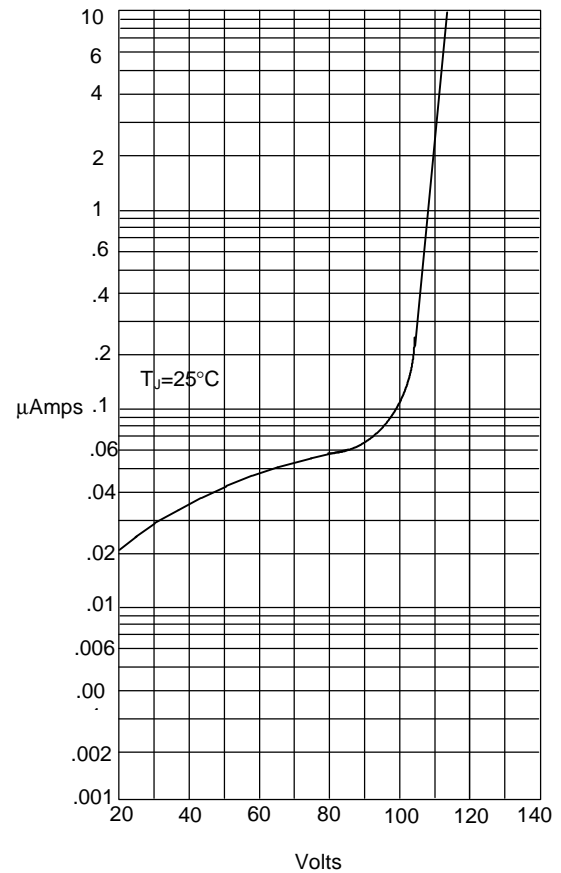


Figure 1  
Typical Forward Characteristics



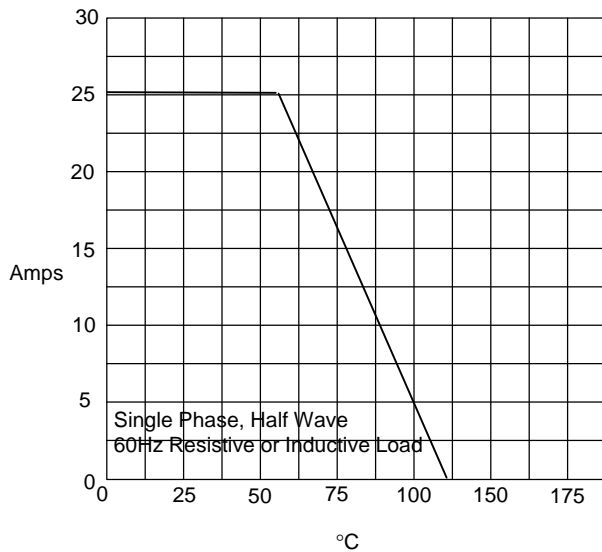
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Typical Reverse Characteristics



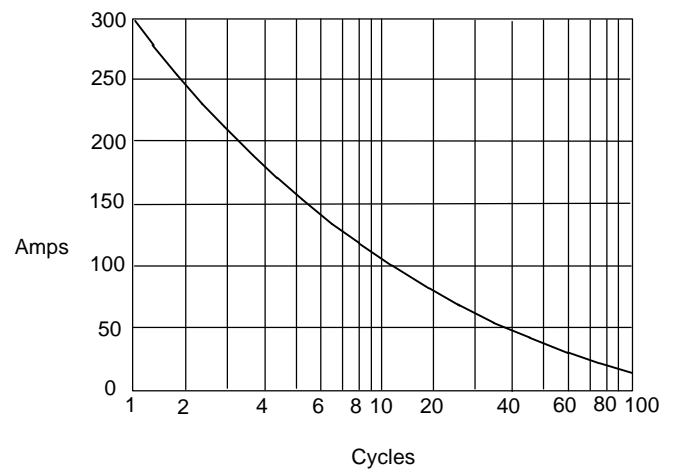
Instantaneous Reverse Leakage Current - MicroAmperes versus  
Percent Of Rated Peak Reverse Voltage - Volts

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