



Micro Commercial Components

Micro Commercial Corp.
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MP3505W THRU MP3510W

Features

- Mounting Hole For #8 Screw
- Plastic Case With Metal Bottom
- Any Mounting Position
- Surge Rating Of 400 Amps
- UL Recognized File # E165989

Maximum Ratings

- Mounting Torque: 2.0 N·m, Tolerance: +/-10%
- Mounting: Hole for #6 Screw
- 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
MP3505W	MP3505W	50V	35V	50V
MP351W	MP351W	100V	70V	100V
MP352W	MP352W	200V	140V	200V
MP354W	MP354W	400V	280V	400V
MP356W	MP356W	600V	420V	600V
MP358W	MP358W	800V	560V	800V
MP3510W	MP3510W	1000V	700V	1000V

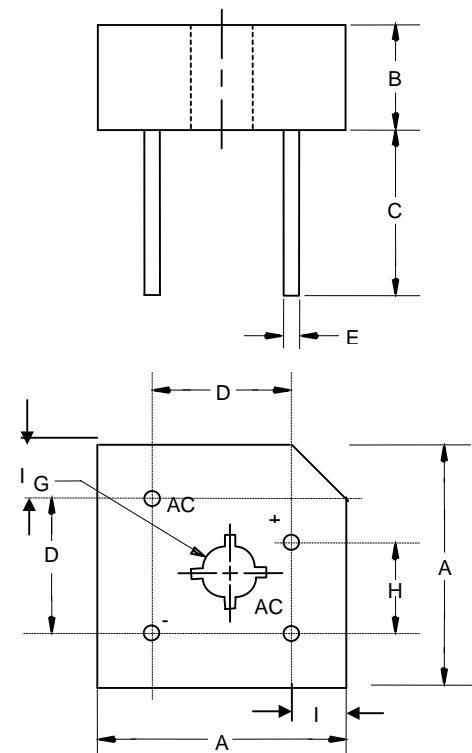
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	35.0A	$T_C = 55^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	400A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	$I_{FM} = 17.5\text{A}$ 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 $t < 8.3\text{mS}$	I^2t	660	A^2S
Typical Thermal Resistance Junction to case(per element)	$R_{\theta jc}$	3.0	K/W

*Pulse test: Pulse width 300 μsec , Duty cycle 1%

35 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

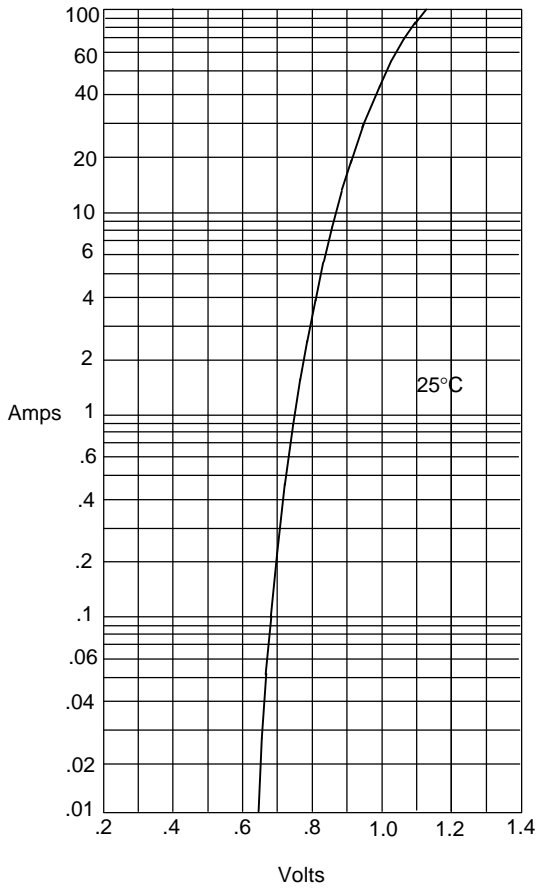
MP-50W



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
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	---	\varnothing
H	.429	.468	10.90	11.90	
i	.169	.236	4.30	6.00	

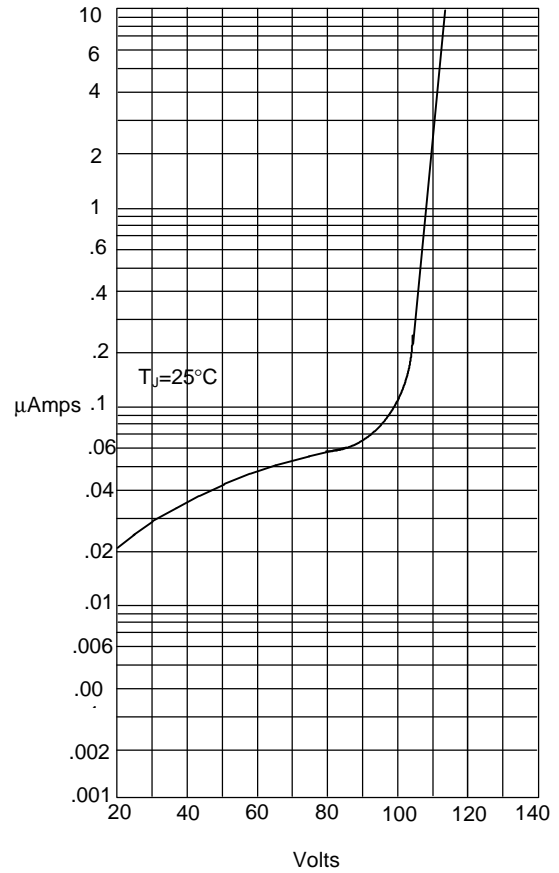
MP3505W thru MP3510W

Figure 1
Typical Forward Characteristics



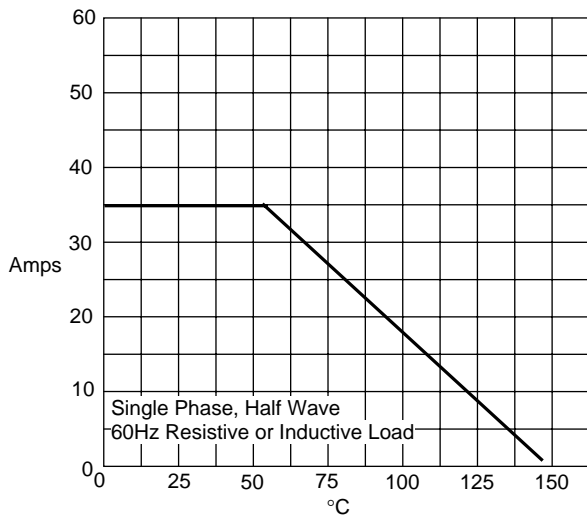
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



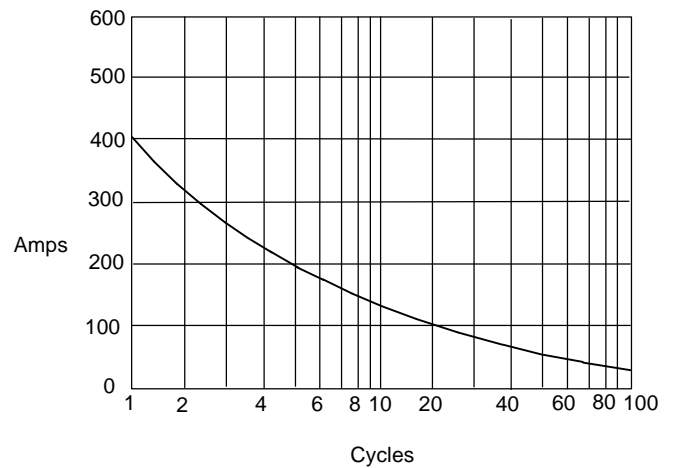
Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

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