



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MP1505W **THRU MP1510W**

Features

- UL Recognized File # E165989
- Mounting Hole For #8 Screw, Plastic Case with Metal Bottom
- Surge Rating Of 300 Amps
- Case to Terminal Isolation Voltage 2500V Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Mounting Torque: 2.0 N.m, Tolerance:+/-10% Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance, Junction to Case :Rthjc=6.3°C/W

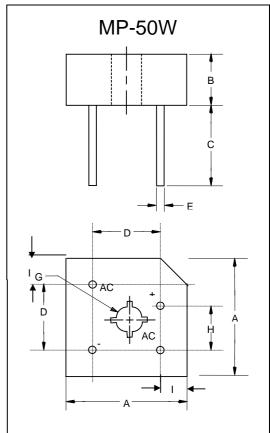
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
MP1505W	MP1505W	50V	35V	50V
MP151W	MP151W	100V	70V	100V
MP152W	MP152W	200V	140V	200V
MP154W	MP154W	400V	280V	400V
MP156W	MP156W	600V	420V	600V
MP158W	MP158W	800V	560V	800V
MP1510W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

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	15.0A	$T_C = 55^{\circ}C$
Peak Forward Surge Current	I _{FSM}	300A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V _F	1.1V	$I_{FM} = 7.5A \text{ per}$ element; $T_J = 25^{\circ}\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 500uA	T _J = 25°C T _J = 125°C

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

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

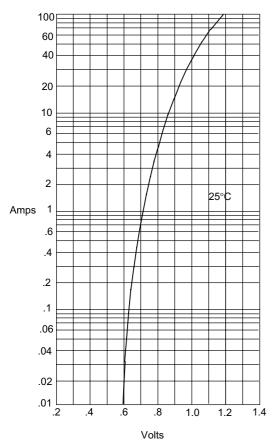


DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	1.118	1.130	28.40	28.70	
В	.432	.442	10.97	11.23	
С	.769		19.53		
D	.673	.752	17.10	19.10	
Е	.038	.042	.97	1.07	4PL/TYP
G	.193		4.90		Ø
Н	.429	.468	10.90	11.90	
i	.169	.236	4.30	6.00	



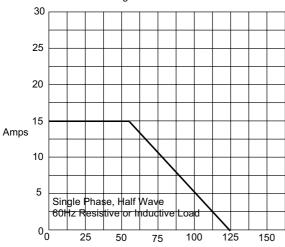
MP1505W thru MP1510W

Figure 1
Typical Forward Characteristics



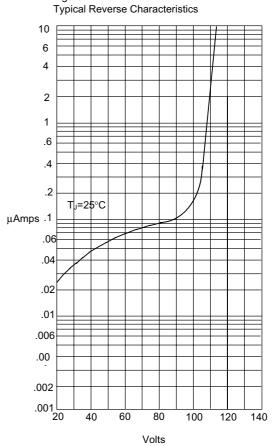
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Figure 3 Forward Derating Curve



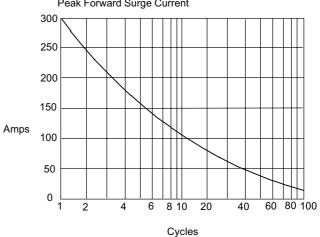
Average Forward Rectified Current - Amperes versus Case Temperature - $^{\circ}\text{C}$

Figure 2 Micro Commercial Components



Instantaneous Reverse Leakage Current - MicroAmperesversus Percent Of Rated Peak Reverse Voltage - Volts

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



Ordering Information

Device	Packing
(Part Number)-BP	Bulk; 400Pcs/Ctn

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