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### Features

- UL Recognized File # E165989
- Mounting Hole For #8 Screw
- Plastic Case With Metal Bottom
- Any Mounting Position
- Surge Rating Of 400 Amps
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

### **Maximum Ratings**

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Mounting Torgue: 20 in-lbs Maximum

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent RMS		DC
Number	_	Peak Reverse Voltage		Blocking
		Voltage	-	Voltage
MP3505	MP3505	50V	35V	50V
MP351	MP351	100V	70V	100V
MP352	MP352	200V	140V	200V
MP354	MP354	400V	280V	400V
MP356	MP356	600V	420V	600V
MP358	MP358	800V	560V	800V
MP3510	MP3510	1000v	700V	1000v

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

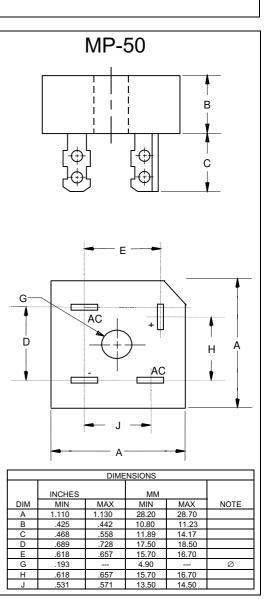
Average Forward Current	I <sub>F(AV)</sub>	35.0A	T <sub>C</sub> = 55°C
Peak Forward Surge Current	I <sub>FSM</sub>	400A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V <sub>F</sub>	1.1V	I <sub>FM</sub> = 17.5A per element; T <sub>J</sub> = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5μΑ 500μΑ	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C
<sup>1</sup> t Rating for Fusing t<8.3mS	l <sup>2</sup> t	660	A <sup>2</sup> S
Typical Themal Resistance Junction to case(per element)	R thjc	3.0	K/W

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

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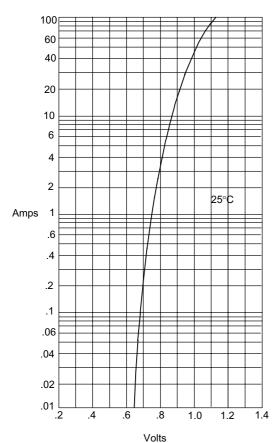
## 35 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

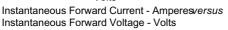


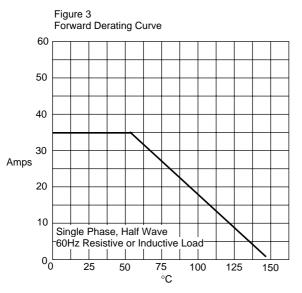


### MP3505 thru MP3510

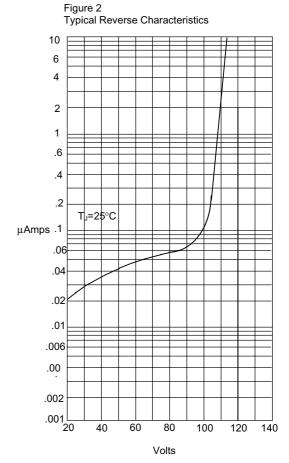
Figure 1 Typical Forward Characteristics



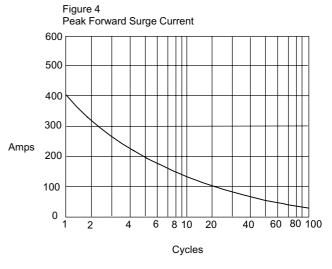




Average Forward Rectified Current - Amperes versus Case Temperature -  $^\circ \text{C}$ 



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



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

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### **Ordering Information**

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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