

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

# MB3505 THRU MB3510

### Features

- Mounting Hole For #10 Screw
- High Conductivity Metal Case
- Any Mounting Position
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/ŘoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

## **Maximum Ratings**

- UL Recognized File # E165989
- Operating Temperature: -55<sup>°</sup>C to +175<sup>°</sup>C
- Storage Temperature: -55°C to +175°C

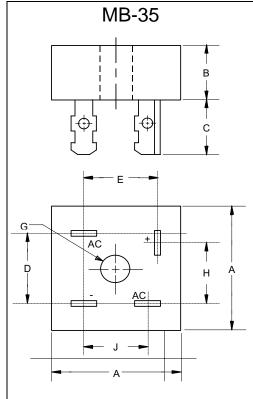
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse	Maximum RMS Voltage	Maximum DC Blocking
		Voltage		Voltage
MB3505	MB3505	50V	35V	50V
MB351	MB351	100V	70V	100V
MB352	MB352	200V	140V	200V
MB354	MB354	400V	280V	400V
MB356	MB356	600V	420V	600V
MB358	MB358	800V	560V	V008
MB3510	MB3510	1000V	700V	1000V

#### Electrical Characteristics @ 25 $^{\circ}$ 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>	1.2V	$I_{FM}$ = 17.5A per element; $T_J$ = 25°C (Note 2)		
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	10μA 1.0mA	$T_J = 25^{\circ}\mathbb{C}$ $T_J = 125^{\circ}\mathbb{C}$		
Thermal Resistence Junction to case	R <sub>thJC</sub>	2.5℃/W			

- Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes  $\,$  7.
  - 2. Pulse Test: Pulse Width 300usec, Duty Cycle 1%

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



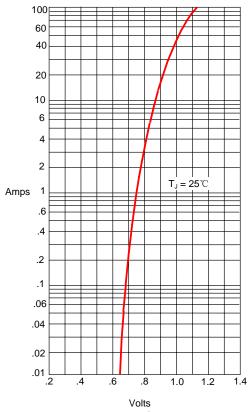
DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	1.115	1.135	28.33	28.83		
В	.427	.447	10.85	11.35		
С	.428	.468	10.87	11.89		
D	.688	.730	17.48	18.50		
Е	.618	.658	15.70	16.71		
G	.193		4.90		Ø	
Н	.618	.658	15.70	16.71		
J	.530	.570	13.46	14.48		
J	.530	.570	13.46	14.48		

### MB3505 thru MB3510



**Micro Commercial Components** 

Figure 1 Typical Forward Characteristics

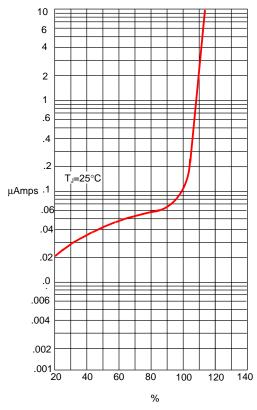


Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts

Figure 3 Forward Derating Curve 60 50 40 30 Amps 20 Single Phase, Half Wave 60Hz Resistive or Inductive Load 50 75 100 125 150 175 °С

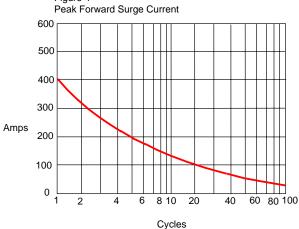
Average Forward Rectified Current - Amperes *versus* Case Temperature - °C

Figure 2
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - microAmpere *versus* Percent Of Rated Peak Reverse Voltage - %

Figure 4



Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles

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### **Ordering Information**

Device	Packing
(Part Number)-BP	Bulk;50pcs/Box

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