

MB1505W THRU MB1510W

Features

- Mounting Hole For #8 Screw
- High Conductivity Metal Case
- Any Mounting Position
- 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: 20 in-lbs Maximum
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| MB1505W | MB1505W | 50V | 35V | 50V |
| MB151W | MB151W | 100V | 70V | 100V |
| MB152W | MB152W | 200V | 140V | 200V |
| MB154W | MB154W | 400V | 280V | 400V |
| MB156W | MB156W | 600V | 420V | 600V |
| MB158W | MB158W | 800V | 560V | 800V |
| MB1510W | MB1510W | 1000V | 700V | 1000V |

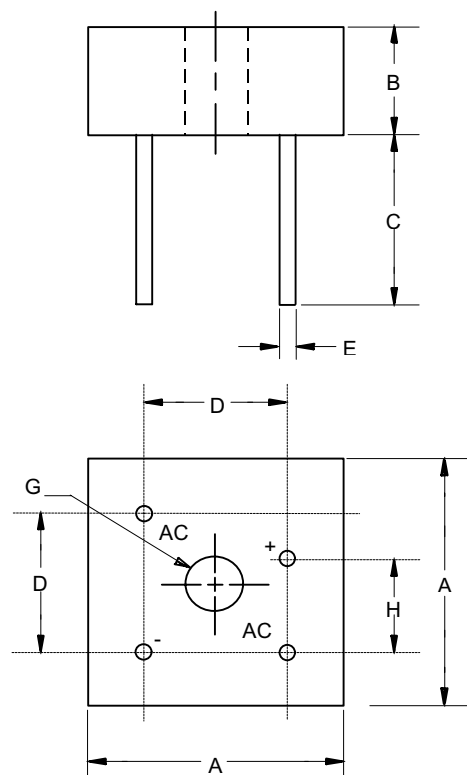
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|--------------|--|
| Average Forward Current | $I_{F(AV)}$ | 15.0A | $T_C = 55^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 300A | 8.3ms, half sine |
| Maximum Forward Voltage Drop Per Element | V_F | 1.2V | $I_{FM} = 7.5\text{A per element}; T_J = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 10μA 1 mA | $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$ |

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

15 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

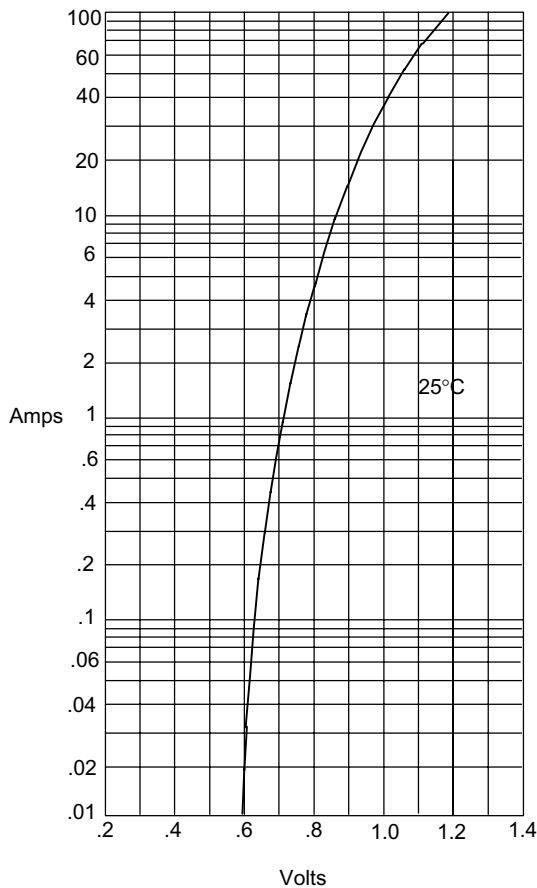
MB-35W



| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|-------|-------|---------|
| | MIN | MAX | MIN | MAX | |
| A | 1.115 | 1.135 | 28.33 | 28.83 | |
| B | .427 | .447 | 10.85 | 11.35 | |
| C | .774 | ----- | 19.65 | ----- | |
| D | .673 | .752 | 17.10 | 19.10 | |
| E | .038 | .042 | 0.96 | 1.07 | 4PL/TYP |
| G | .193 | --- | 4.90 | --- | Ø |
| H | .429 | .469 | 10.90 | 11.90 | |

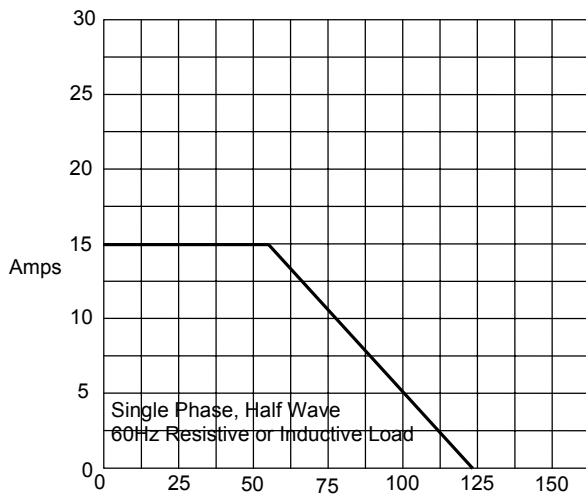
MB1505W thru MB1510W

Figure 1
Typical Forward Characteristics



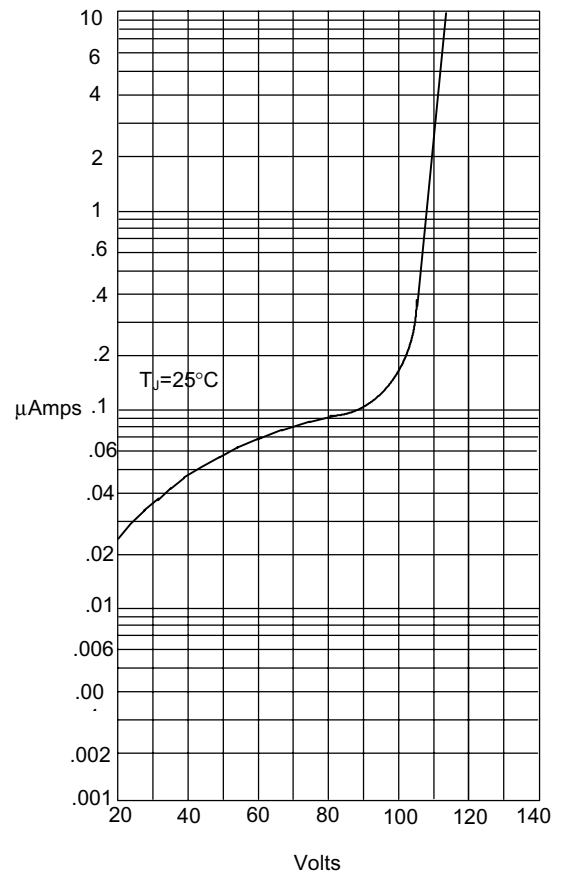
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 3
Forward Derating Curve



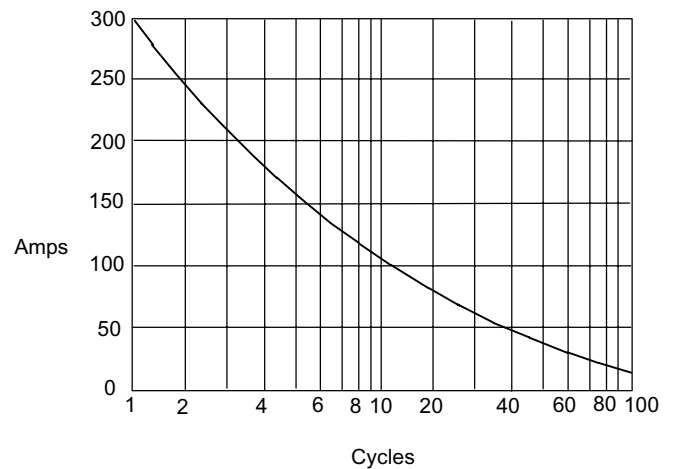
Average Forward Rectified Current - Amperes *versus*
Case Temperature - °C

Figure 2
Typical Reverse Characteristics



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

Figure 4
Peak Forward Surge Current



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



TM

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Ordering Information

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

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