



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
- 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

- 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

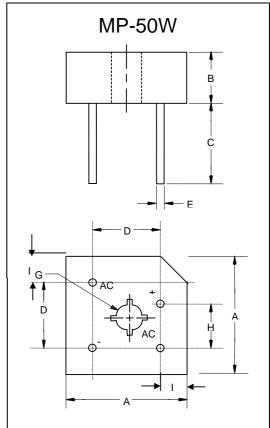
| MCC | Device | Maximum | Maximum | Maximum |
|---------|---------|---------------|---------|----------|
| Catalog | Marking | Recurrent RMS | | DC |
| Number | | Peak Reverse | Voltage | Blocking |
| | | Voltage | | Voltage |
| MP1505W | MP1505W | 50V | 35V | 50V |
| MP151W | MP151W | 100V | 70V | 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

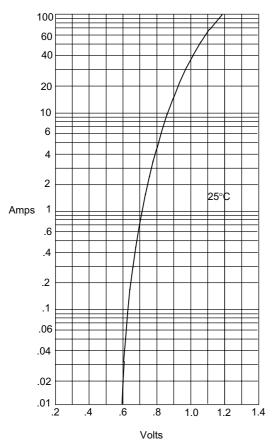


| DIMENSIONS | | | | | |
|------------|--------|-------|-------|-------|---------|
| | INCHES | | MM | | |
| DIM | MIN | MAX | MIN | MAX | NOTE |
| Α | 1.118 | 1.130 | 28.40 | 28.70 | |
| В | .432 | .442 | 10.97 | 11.23 | |
| С | .769 | | 19.53 | | |
| D | .673 | .752 | 17.10 | 19.10 | |
| E | .038 | .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 | |
| | | | | | |



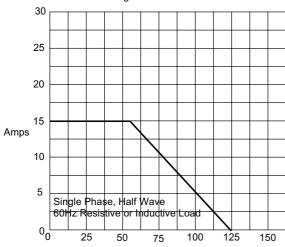
MP1505W thru MP1510W

Figure 1
Typical Forward Characteristics



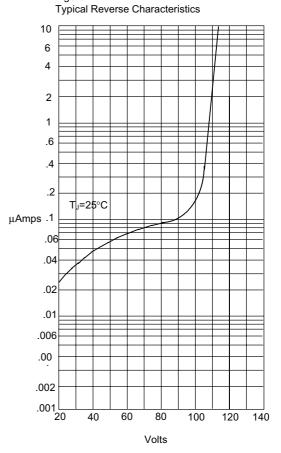
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Figure 3 Forward Derating Curve



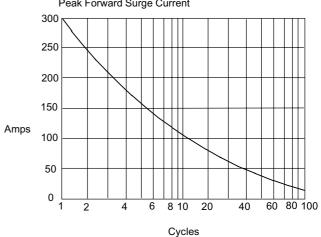
Average Forward Rectified Current - Amperes versus Case Temperature - $^{\circ}\text{C}$

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 |

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

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