



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MP1505 **THRU MP1510**

Features

- Halogen free available upon request by adding suffix "-HF"
- Mounting Hole For #8 Screw
- Plastic Case With Metal Bottom
- Any Mounting Position
- Surge Rating Of 300 Amps
- 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 Torgue: 20 in-lbs Maximum Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

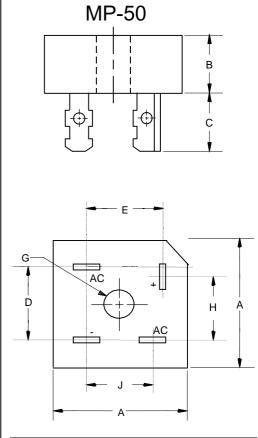
| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------------|-------------------|---|---------------------------|--------------------------------------|
| MP1505 | MP1505 | 50V | 35V | 50V |
| MP151 | MP151 | 100V | 70V | 100V |
| MP152 | MP152 | 200V | 140V | 200V |
| MP154 | MP154 | 400V | 280V | 400V |
| MP156 | MP156 | 600V | 420V | 600V |
| MP158 | MP158 | 800V | 560V | 800V |
| MP1510 | MP1510 | 1000v | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Average Forward Current | I _{F(AV)} | 15.0A | T _C = 55°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 per element; T _J = 25°C |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I _R | 5μΑ 500μΑ | 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



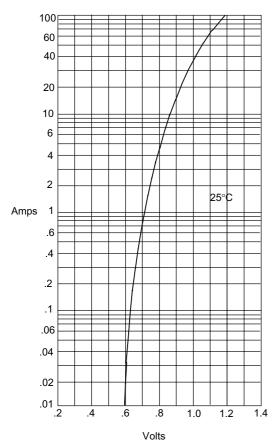
| DIM MIN MAX MIN MAX NOTE A 1.118 1.130 28.40 28.70 B .432 .442 10.91 11.23 C .468 .558 11.89 14.17 D .689 .728 17.50 18.50 E .618 .657 15.70 16.70 G .193 4.90 Ø | DIMENSIONS | | | | | |
|--|------------|--------|-------|-------|-------|------|
| A 1.118 1.130 28.40 28.70 B 432 442 10.91 11.23 C 468 .558 11.89 14.17 D .689 .728 17.50 18.50 E .618 .657 15.70 16.70 | | INCHES | | MM | | |
| B .432 .442 10.91 11.23 C .468 .558 11.89 14.17 D .689 .728 17.50 18.50 E .618 .657 15.70 16.70 | DIM | MIN | MAX | MIN | MAX | NOTE |
| C .468 .558 11.89 14.17 D .689 .728 17.50 18.50 E .618 .657 15.70 16.70 | Α | 1.118 | 1.130 | 28.40 | 28.70 | |
| D .689 .728 17.50 18.50 E .618 .657 15.70 16.70 | В | .432 | .442 | 10.91 | 11.23 | |
| E .618 .657 15.70 16.70 | С | .468 | .558 | 11.89 | 14.17 | |
| | D | .689 | .728 | 17.50 | 18.50 | |
| G .193 4.90 Ø | Е | .618 | .657 | 15.70 | 16.70 | |
| | G | .193 | | 4.90 | | Ø |
| H .618 .657 15.70 16.70 | Н | .618 | .657 | 15.70 | 16.70 | |
| J .531 .571 13.50 14.50 | J | .531 | .571 | 13.50 | 14.50 | |

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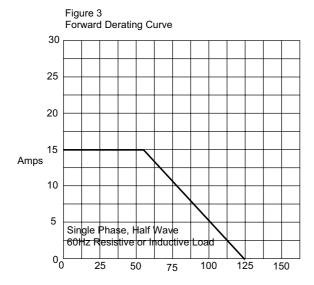


MP1505 thru MP1510

Figure 1
Typical Forward Characteristics

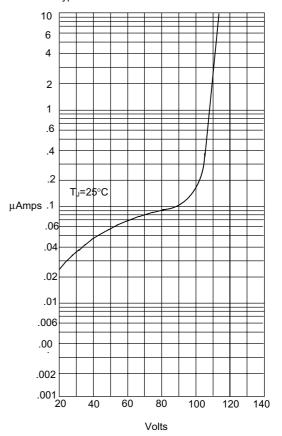


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

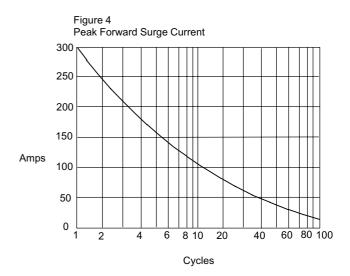


Average Forward Rectified Current - Amperes versus Case Temperature - $^{\circ}\text{C}$

Figure 2 Micro Commercial Components
Typical Reverse Characteristics



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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