



Micro Commercial Components

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**MP4005W
 THRU
 MP4010W**

Features

- Mounting Hole For #8 Screw
- Plastic Case with Metal Bottom
- Any Mounting Position
- Surge Rating Of 400 Amps

**40 Amp Single Phase
 Bridge Rectifier
 50 to 1000 Volts**

Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C

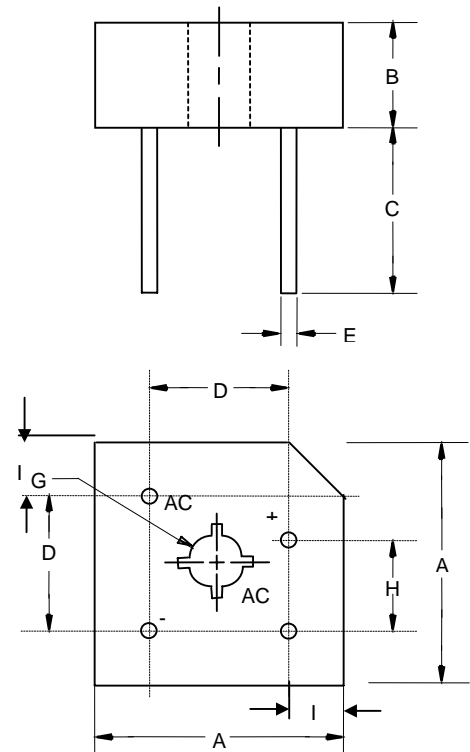
| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| MP4005W | MP4005W | 50V | 35V | 50V |
| MP401W | MP401W | 100V | 70V | 100V |
| MP402W | MP402W | 200V | 140V | 200V |
| MP404W | MP404W | 400V | 280V | 400V |
| MP406W | MP406W | 600V | 420V | 600V |
| MP408W | MP408W | 800V | 560V | 800V |
| MP4010W | MP4010W | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|---------------|---|
| Average Forward Current | $I_{F(AV)}$ | 40.0A | $T_J = 55^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 400A | 8.3ms, half sine |
| Maximum Forward Voltage Drop Per Element | V_F | 1.2V | $I_{FM} = 20\text{A per element}; T_J = 25^\circ\text{C}^*$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 10µA 1.0mA | $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$ |

*Pulse test: Pulse width 300 µsec, Duty cycle 1%

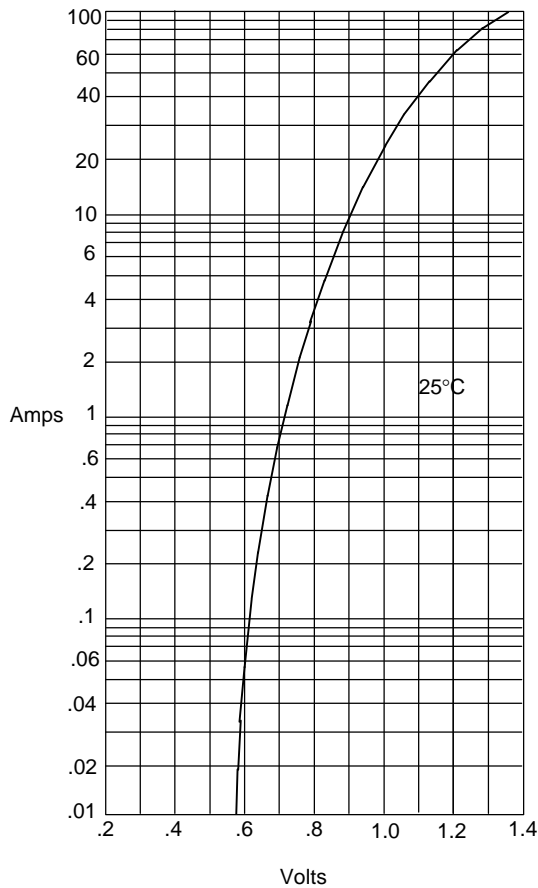
MP-50W



| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|-------|-------|---------|
| | MIN | MAX | MIN | MAX | |
| A | 1.118 | 1.130 | 28.40 | 28.70 | |
| B | .432 | .442 | 10.97 | 11.23 | |
| C | .769 | --- | 19.53 | --- | |
| D | .673 | .752 | 17.10 | 19.10 | |
| E | .038 | .042 | .97 | 1.07 | 4PL/TYP |
| G | .193 | --- | 4.90 | --- | ∅ |
| H | .429 | .468 | 10.90 | 11.90 | |
| i | .169 | .236 | 4.30 | 6.00 | |

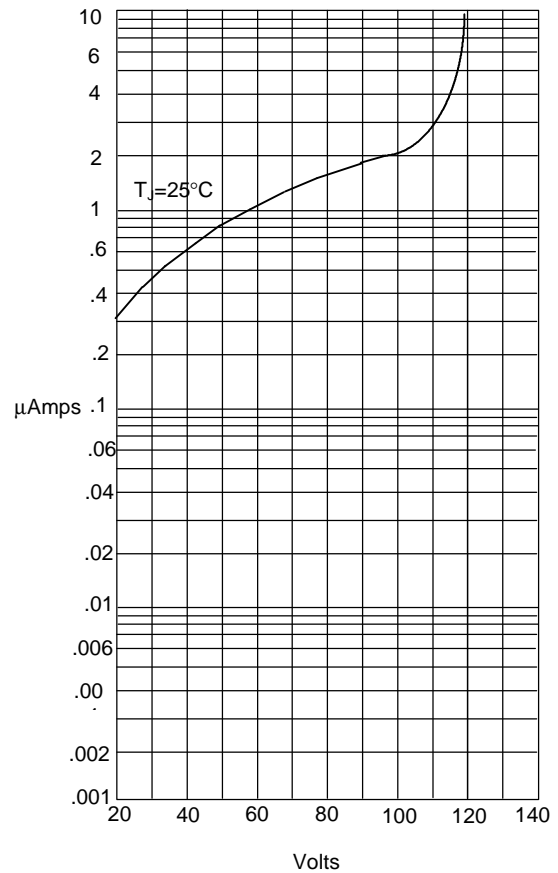
MP4005W thru MP4010W

Figure 1
Typical Forward Characteristics



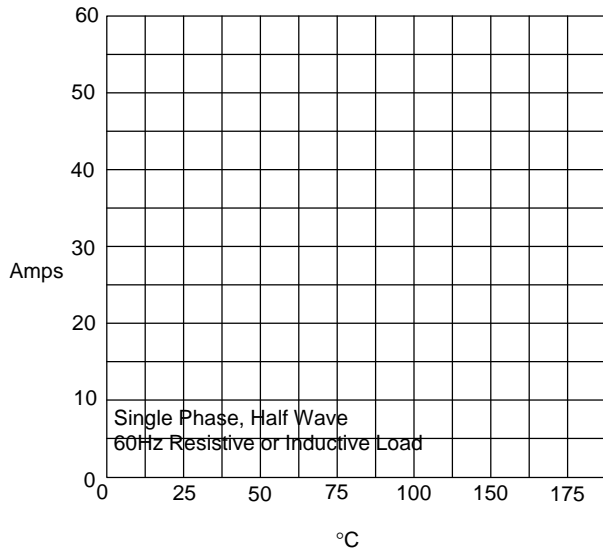
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



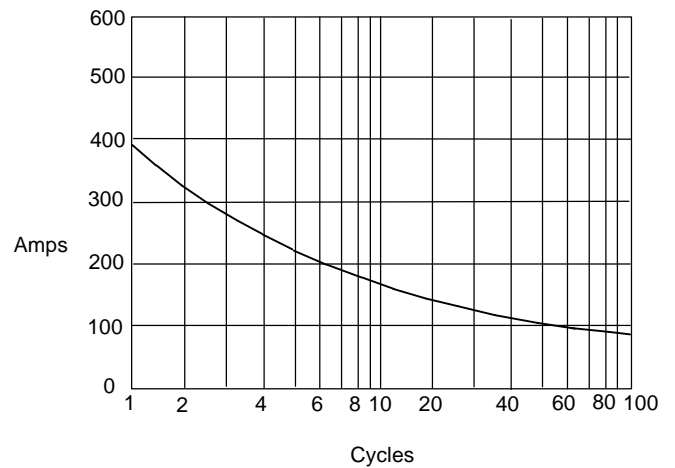
Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C

Figure 4
Peak Forward Surge Current



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