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|---|----------------|
|  | E502650 |
|---|----------------|

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- High Conductivity Metal Case

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 3.0°C/W Junction to Case

Mechanical Data

- Mounting Torque: 10 Kg-cm Maximum
- Mounting Hole For #8 Screw

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| MP3505W | MP3505W | 50V | 35V | 50V |
| MP351W | MP351W | 100V | 70V | 100V |
| MP352W | MP352W | 200V | 140V | 200V |
| MP354W | MP354W | 400V | 280V | 400V |
| MP356W | MP356W | 600V | 420V | 600V |
| MP358W | MP358W | 800V | 560V | 800V |
| MP3510W | MP3510W | 1000V | 700V | 1000V |

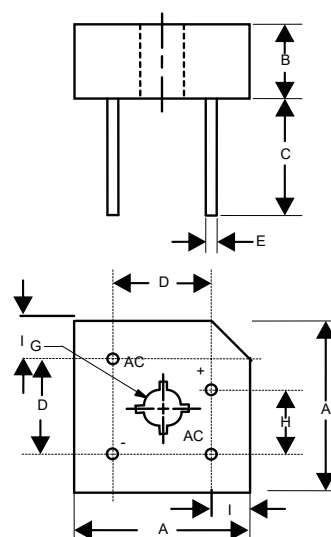
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|--------------------------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 35.0A | $T_C = 55^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 400A | 8.3ms, Half Sine |
| Maximum Forward Voltage Drop Per Element | V_F | 1.1V | $I_{FM} = 17.5A;$ $T_J = 25^\circ\text{C}$ |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I_R | 5 μA 500 μA | $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$ |
| Rating for Fusing | I^2t | 660A ² s | $t < 8.3\text{ms}$ |

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

35 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

MP-50W



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|---------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | 1.118 | 1.130 | 28.40 | 28.70 | |
| B | 0.432 | 0.442 | 10.97 | 11.23 | |
| C | 0.769 | --- | 19.53 | --- | |
| D | 0.673 | 0.752 | 17.10 | 19.10 | |
| E | 0.038 | 0.042 | 0.97 | 1.07 | 4PL/TYP |
| G | 0.193 | --- | 4.90 | --- | Φ |
| H | 0.429 | 0.468 | 10.90 | 11.90 | |
| I | 0.169 | 0.236 | 4.30 | 6.00 | |

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

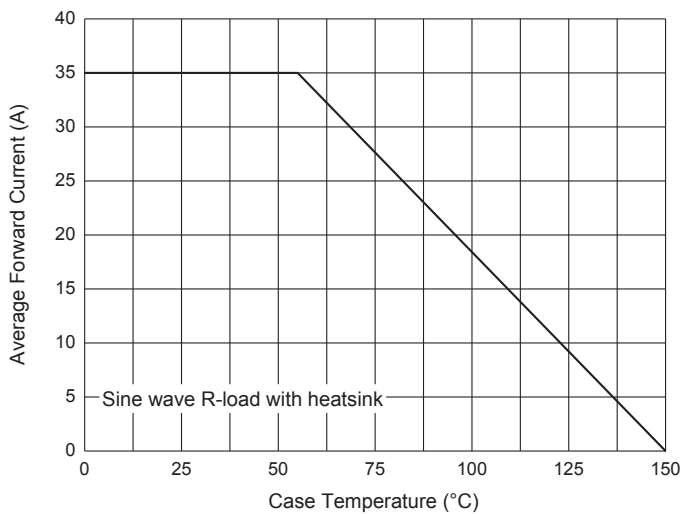


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

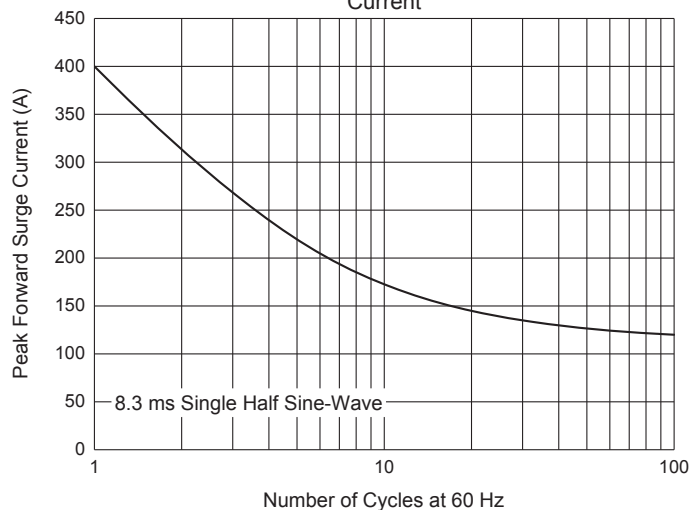


Fig. 3 - Typical Instantaneous Forward Characteristics

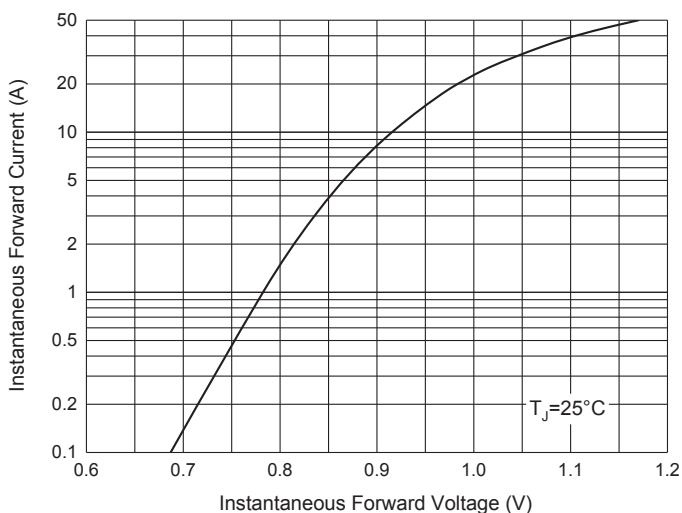
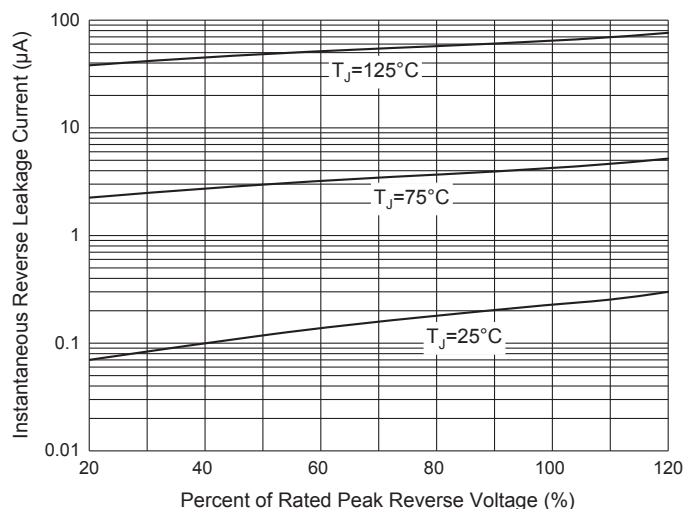


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

| Device | Packing |
|----------------|-----------------------------|
| Part Number-BP | Bulk: 50Úcs/Box, 400Pcs/Ctn |

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