

|   |                |
|---|----------------|
|  | <b>E502650</b> |
|---|----------------|

**Features**

- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- 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                       |

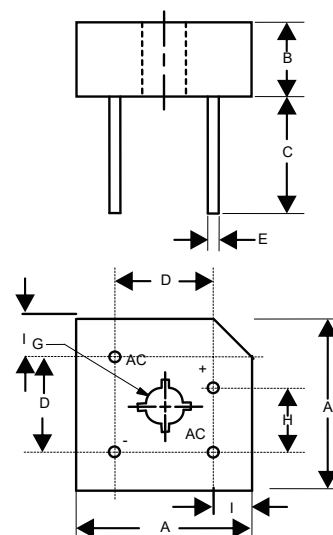
**Electrical Characteristics @ 25°C Unless Otherwise Specified**

|   |             |                     |   |
|---|-------------|---------------------|---|
| 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                | $I_{FM} = 17.5A;$<br>$T_J = 25^\circ\text{C}$         |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | $I_R$       | 5μA<br>500μA        | $T_J = 25^\circ\text{C}$<br>$T_J = 125^\circ\text{C}$ |
| Rating for Fusing                                       | $I^2t$      | 660A <sup>2</sup> 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

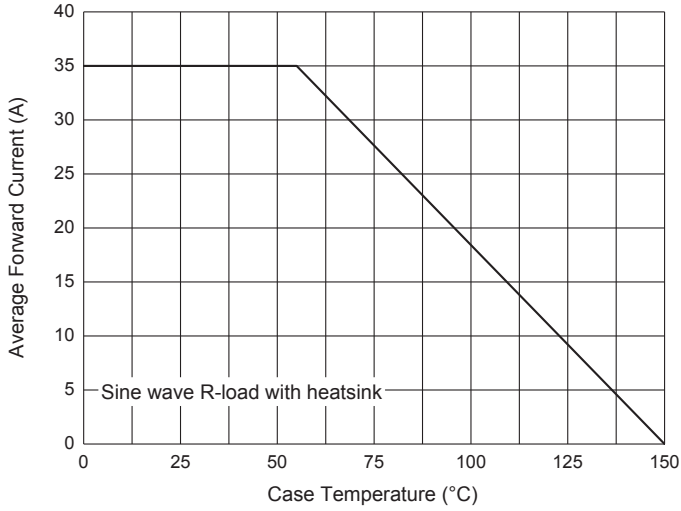


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

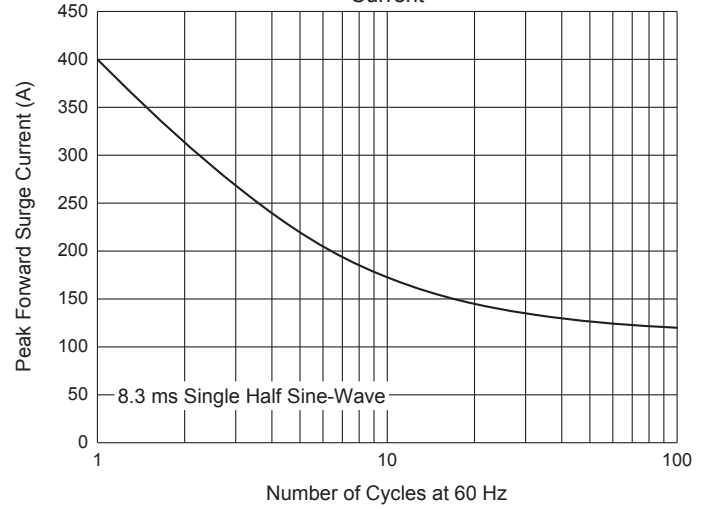


Fig. 3 - Typical Instantaneous Forward Characteristics

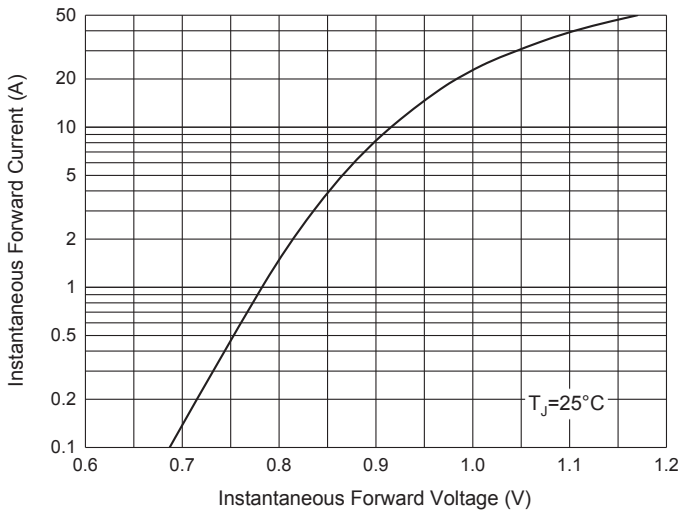
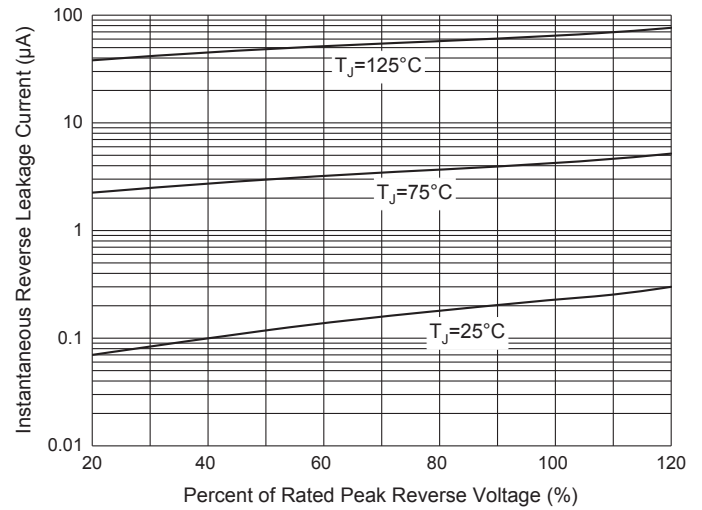


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

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

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