

**Features**

- Lead Free Finish/RoHS Compliant(Note 1)("P" Suffix Designates Compliant. See Ordering Information)
- Low Forward Voltage Drop
- High Junction Temperature Capability
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

**Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance: 2.0°C/W Junction to Case

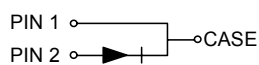
| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| MBR5200HL       | MBR5200HL      | 200V                                   | 140V                | 200V                        |

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

|   |             |                         |   |
|---|-------------|-------------------------|---|
| Average Forward Current                                 | $I_{F(AV)}$ | 5A                      | $T_C=165^\circ\text{C}$   |
| Peak Forward Surge Current                              | $I_{FSM}$   | 150A                    | 8.3ms, Half Sine  |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 0.85V(Max)<br>0.7V(Max) | $I_{FM}=5A, T_A=25^\circ\text{C}$<br>$I_{FM}=5A, T_A=125^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 0.01mA<br>5mA           | $T_A=25^\circ\text{C};$<br>$T_A=125^\circ\text{C}$                      |
| Typical Junction Capacitance                            | $C_J$       | 150pF                   | Measured at 1.0MHz, $V_R=4.0V$  |

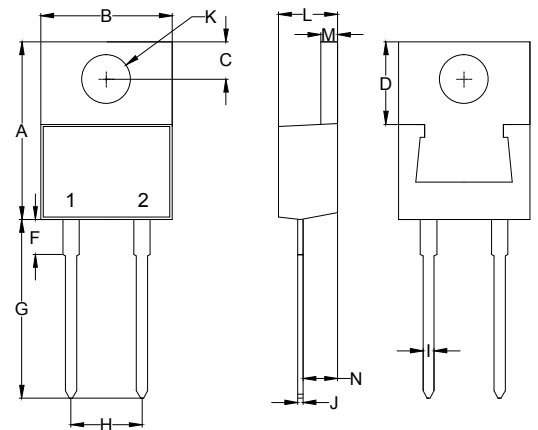
Note :1. High Temperature Solder Exemption Applied. See EU Directive Annex 7a.

**Internal Structure:**



**5 Amp  
Schottky  
Barrier Rectifier  
200 Volts**

**TO-220AC**



| DIM | DIMENSIONS |       |       |       | NOTE |
|-----|------------|-------|-------|-------|------|
|     | INCHES     |       | MM    |       |      |
|     | MIN        | MAX   | MIN   | MAX   |      |
| A   | 0.560      | 0.625 | 14.22 | 15.88 |      |
| B   | 0.380      | 0.420 | 9.65  | 10.67 |      |
| C   | 0.100      | 0.135 | 2.54  | 3.43  |      |
| D   | 0.230      | 0.270 | 5.84  | 6.86  |      |
| F   | ----       | 0.250 | ----  | 6.35  |      |
| G   | 0.500      | 0.580 | 12.70 | 14.73 |      |
| H   | 0.190      | 0.210 | 4.83  | 5.33  |      |
| I   | 0.020      | 0.045 | 0.51  | 1.14  |      |
| J   | 0.012      | 0.025 | 0.30  | 0.64  |      |
| K   | 0.139      | 0.161 | 3.53  | 4.09  | Φ    |
| L   | 0.140      | 0.190 | 3.56  | 4.83  |      |
| M   | 0.045      | 0.055 | 1.14  | 1.40  |      |
| N   | 0.080      | 0.115 | 2.03  | 2.92  |      |

**Curve Characteristics**

Fig. 1 - Forward Current Derating Curve

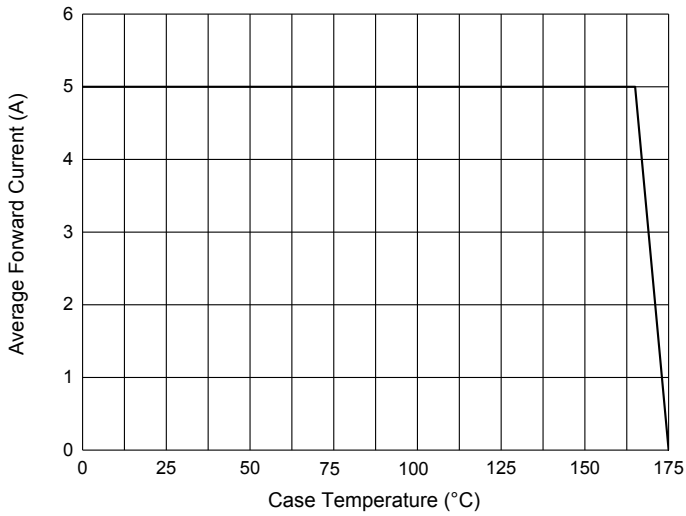


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

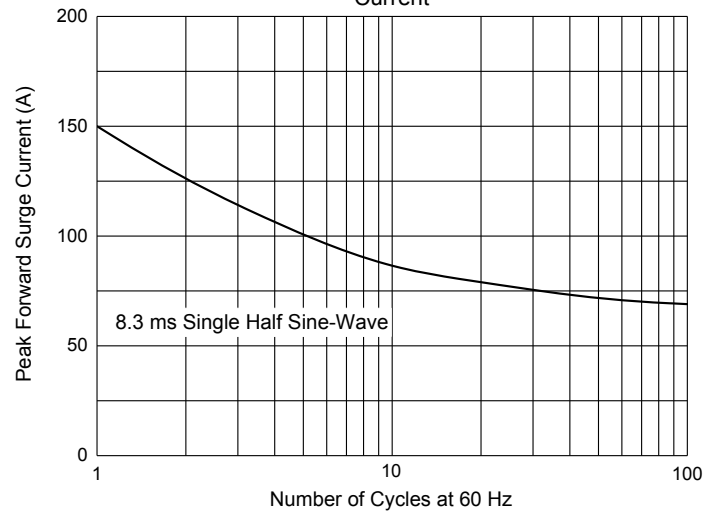


Fig. 3 - Typical Instantaneous Forward Characteristics

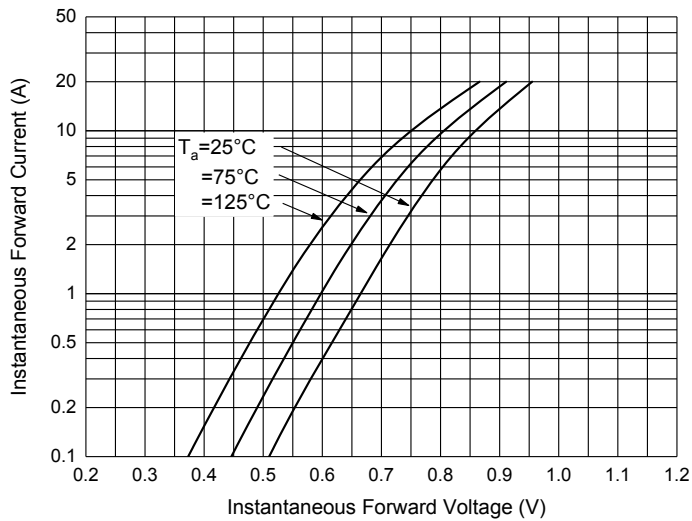
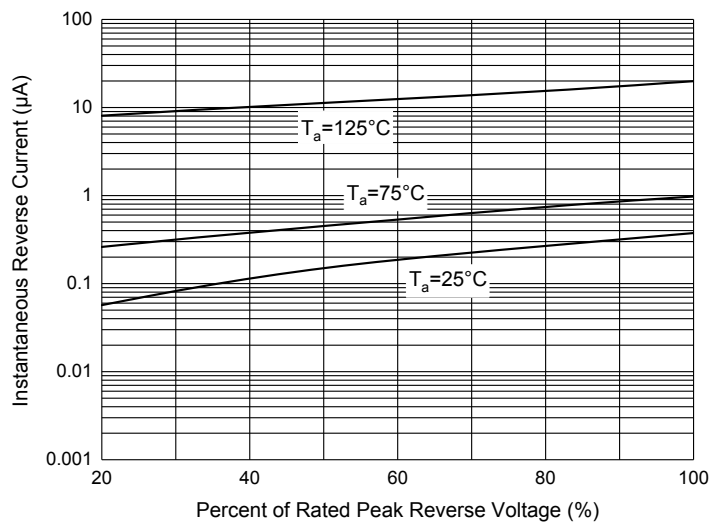


Fig. 4 - Instantaneous Reverse Characteristics



## Ordering Information

| Device         | Packing        |
|----------------|----------------|
| Part Number-BP | Bulk:1Kpcs/Box |

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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