



**THE DATASHEET OF
MUR1660-BP**



Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- High Surge Capacity And Low Reverse Leakage Current
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Mounting Torque: 5 in-lbs Maximum

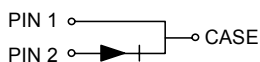
| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| MUR1605 | MUR1605 | 50V | 35V | 50V |
| MUR1610 | MUR1610 | 100V | 70V | 100V |
| MUR1620 | MUR1620 | 200V | 140V | 200V |
| MUR1640 | MUR1640 | 400V | 280V | 400V |
| MUR1660 | MUR1660 | 600V | 420V | 600V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|--|---|
| Average Forward Current | $I_{F(AV)}$ | 16A | $T_C=100^\circ C$ |
| Peak Forward Surge Current | I_{FSM} | 200A | 8.3ms, Half Sine |
| Maximum Forward Voltage Drop Per Element | V_F | MUR1605-MUR1620: 0.975V MUR1640-MUR1660: 1.5V | $I_{FM}=16A$; $T_J=25^\circ C$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5.0µA 500µA | $T_J=25^\circ C$; $T_J=125^\circ C$ |
| Maximum Reverse Recovery Time | T_{RR} | 35ns 50ns | $I_F=0.5A$; $I_R=1.0A$; $I_{rr}=0.25A$ |
| Typical Junction Capacitance | C_J | 65pF | Measured at 1.0MHz, $V_R=4.0V$ |

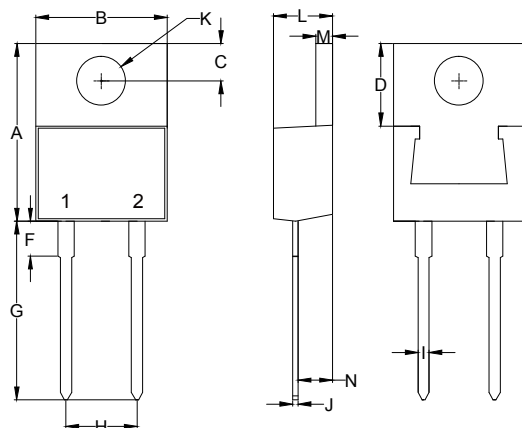
Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

Internal Structure



16 Amp Super Fast Glass Passivated Rectifier 50 to 600 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 | 0.139 | 0.163 | 3.54 | 4.14 | |
| 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

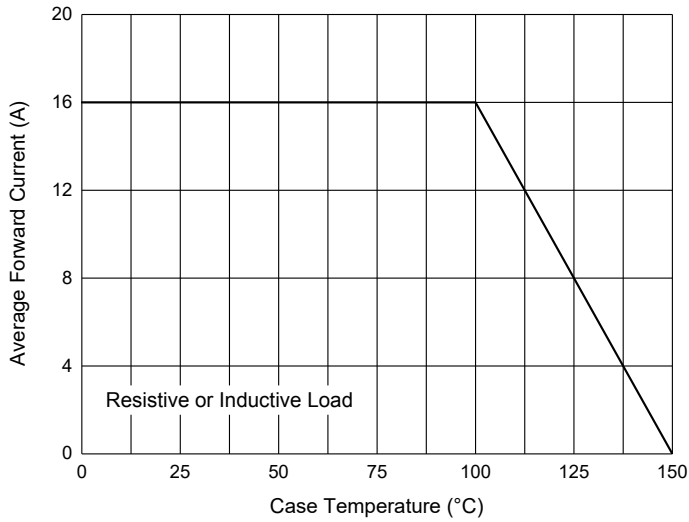


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

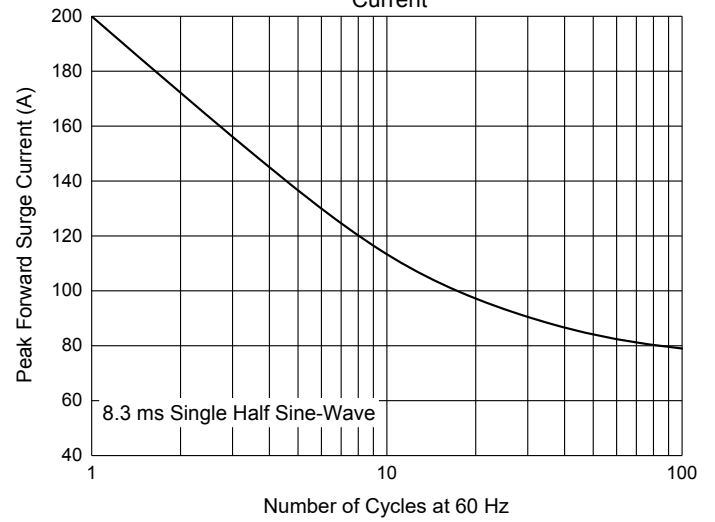


Fig. 3 - Typical Instantaneous Forward Characteristics

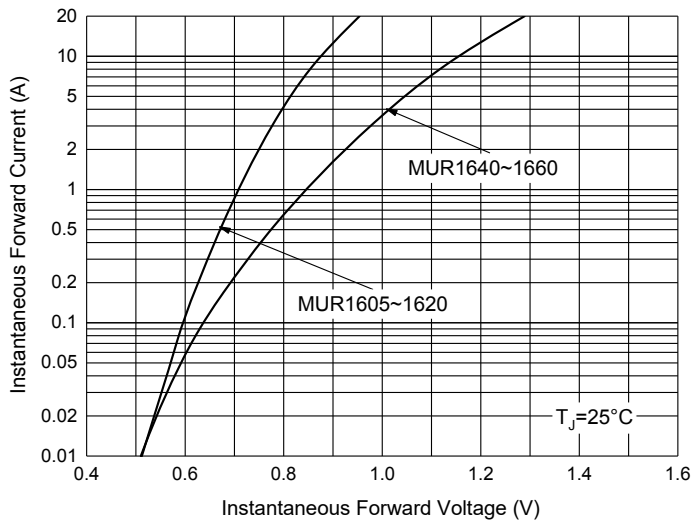
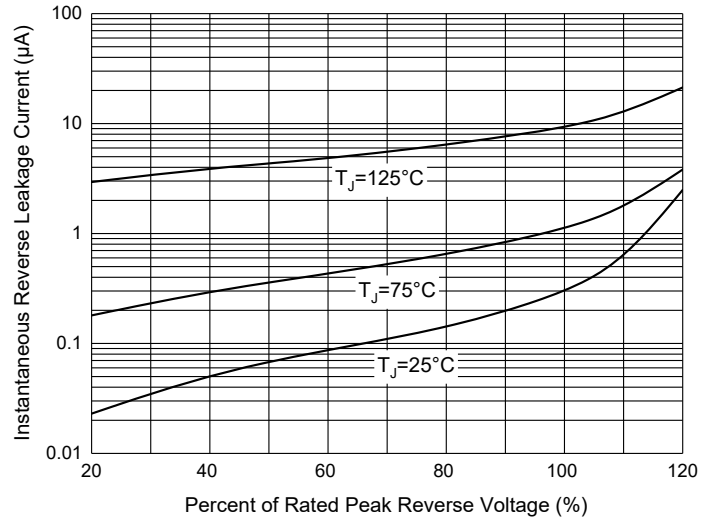


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

| Device | Packing |
|----------------|--|
| Part Number-BP | Bulk:50pcs/Tube, 1Kpcs/Box, 5Kpcs/Carton |

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

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