

Features

- Halogen Free. "Green" Device (Note 1)"
- Low Forward Voltage Drop
- Super Long Operating Life
- Lead Free Finish/RoHS Compliant(Note 2)("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -65°C to +175°C
- Storage Temperature Range: -65°C to +175°C
- Typical Thermal Resistance: 77°C/W Junction to Ambient
- Typical Thermal Resistance: 5 °C/W Junction to Mount(Note 3)

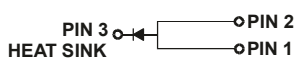
| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| MBR10200UPS | 10200U | 200V | 140V | 200V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|-------------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 10A | $T_L = 135^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 180A | 8.3ms, Half Sine |
| Maximum Forward Voltage Drop Per Element | V_F | 0.82V 0.67V 0.88V | $I_F=5A \quad T_J = 25^\circ\text{C}$ $I_F=5A \quad T_J = 125^\circ\text{C}$ $I_F=10A \quad T_J = 25^\circ\text{C}$ |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I_R | 0.1mA 10mA | $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$ |

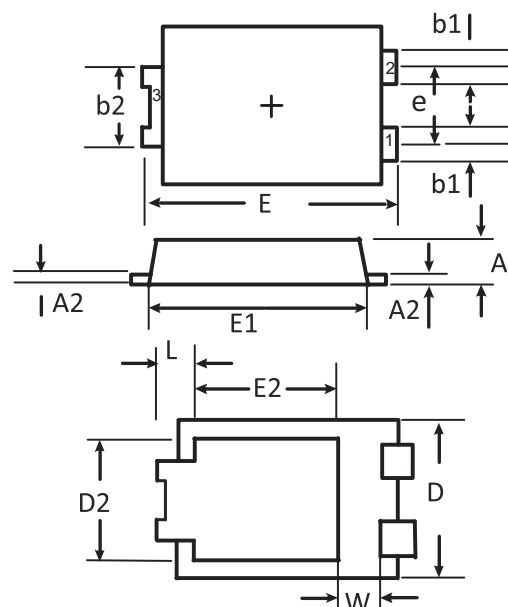
- Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
 2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.
 3. Mounted on P.C.B With 30*30mm Copper Pad Area.

Internal Structure



10 Amp Low VF Schottky Barrier Rectifier 200 Volts

TO-277B



| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | 0.039 | 0.047 | 1.00 | 1.20 | |
| A2 | 0.006 | 0.017 | 0.15 | 0.43 | |
| b1 | 0.030 | 0.041 | 0.75 | 1.05 | |
| b2 | 0.065 | 0.077 | 1.65 | 1.95 | |
| D | 0.148 | 0.169 | 3.75 | 4.30 | |
| D2 | 0.110 | 0.126 | 2.80 | 3.20 | |
| E | 0.250 | 0.264 | 6.35 | 6.70 | |
| e | 0.065 | 0.077 | 1.65 | 1.95 | |
| E1 | 0.207 | 0.228 | 5.25 | 5.80 | |
| E2 | 0.120 | 0.142 | 3.05 | 3.60 | |
| L | 0.028 | 0.051 | 0.70 | 1.30 | |
| W | 0.031 | 0.056 | 0.80 | 1.42 | |

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

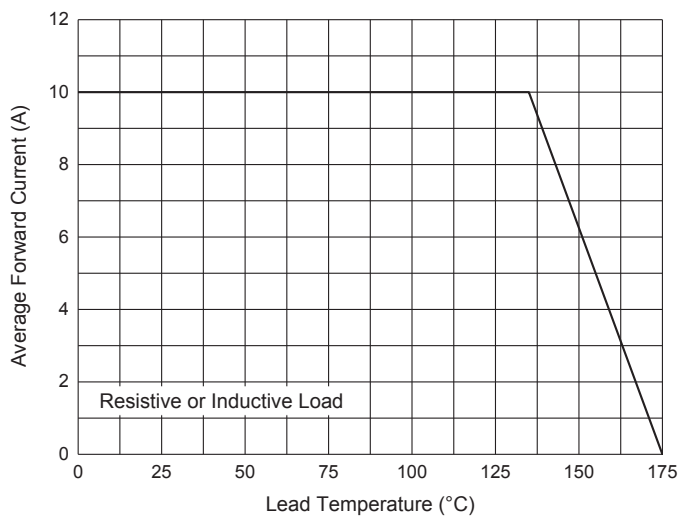


Fig. 2 - Typical Instantaneous Forward Characteristics

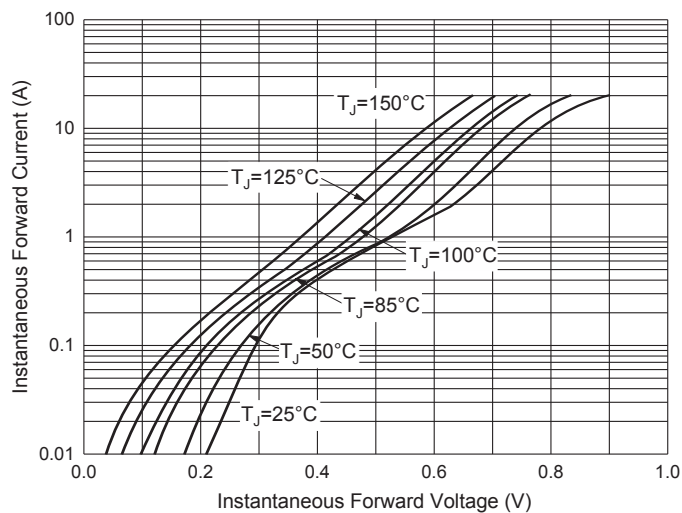
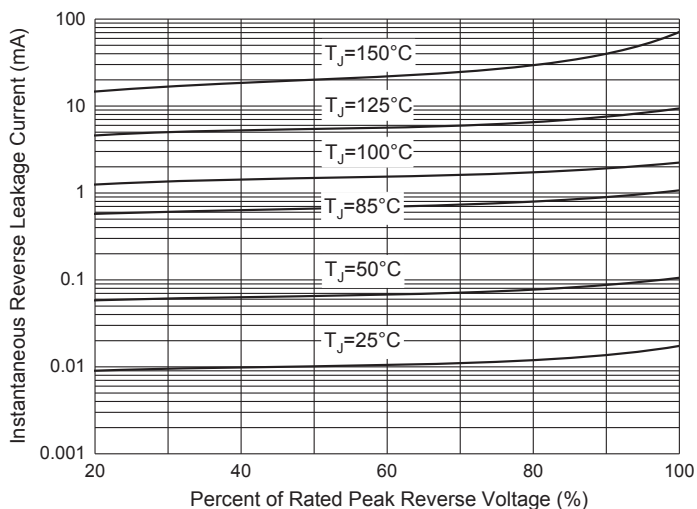


Fig. 3 - Typical Reverse Leakage Characteristics



Ordering Information

| Device | Packing |
|----------------|----------------------|
| Part Number-TP | Tape&Reel:5Kpcs/Reel |

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