



MBR10100CT thru MBR10200CT

10.0A Schottky Barrier Rectifiers
Rectifier Reverse Voltage 100 to 200V

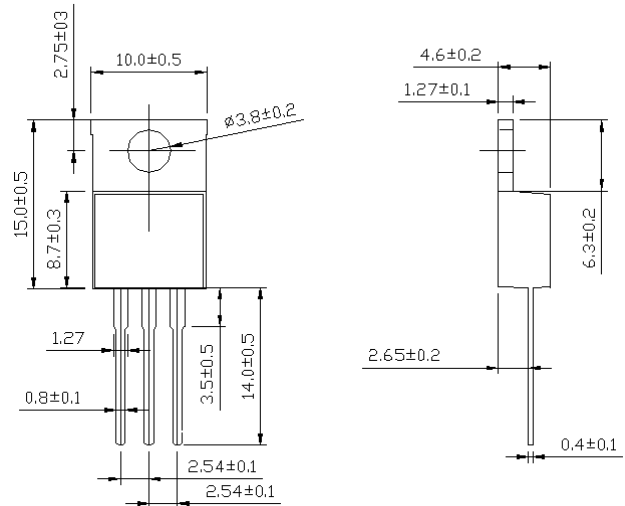
TO-220

Features

- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 260 °C max. 8 s, per JESD 22-B106

Mechanical Data

- **Package:** TO-220AB
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked



Dimensions in millimeters (1mm =0.0394")

■Maximum Ratings (T_a=25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | MBR10100CT | MBR10150CT | MBR10200CT |
|--|------------------|------------------|------------|------------|------------|
| Device marking code | | | MBR10100CT | MBR10150CT | MBR10200CT |
| Repetitive Peak Reverse Voltage | VRRM | V | 100 | 150 | 200 |
| Average Rectified Output Current @60Hz sine wave, R-load, T _a =25°C | I _O | A | 10 | | |
| Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T _a =25°C | I _{FSM} | A | 90 | | |
| Current Squared Time @1ms≤t<8.3ms T _j =25°C, | I ² t | A ² s | 33.6 | | |
| Storage Temperature | T _{stg} | °C | -55 ~ +175 | | |
| Junction Temperature | T _j | °C | -55 ~ +150 | | |

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | TEST CONDITIONS | MBR20100CT | MBR20150CT | MBR20200CT |
|---|-------------------|------|--|------------|------------|------------|
| Maximum instantaneous forward voltage drop per diode | V _{FM} | V | I _{FM} =5.0A | 0.85 | 0.90 | 0.92 |
| Maximum DC reverse current at rated DC blocking voltage per diode | I _{RRM1} | mA | V _{RM} =V _{RRM} T _a =25°C | 0.1 | 0.05 | |
| | I _{RRM2} | | V _{RM} =V _{RRM} T _a =125°C | 20 | | |
| Thermal Resistance | R _{θJ-C} | °C/W | Between junction and case | 2.0 | | |

Rating and Characteristic Curves ($T_A=25^{\circ}\text{C}$ Unless otherwise noted)

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FIG1: I_o - T_c Curve

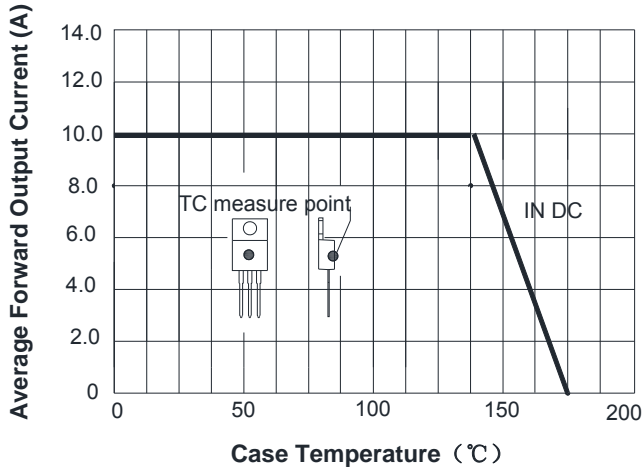


FIG2: Surge Forward Current Capability

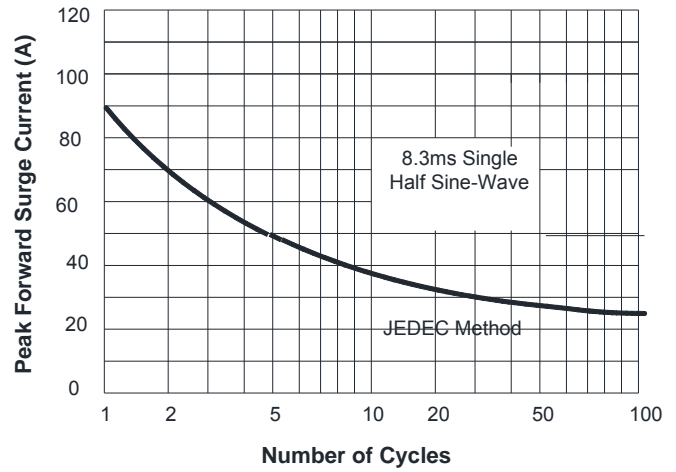


FIG3: Forward Voltage

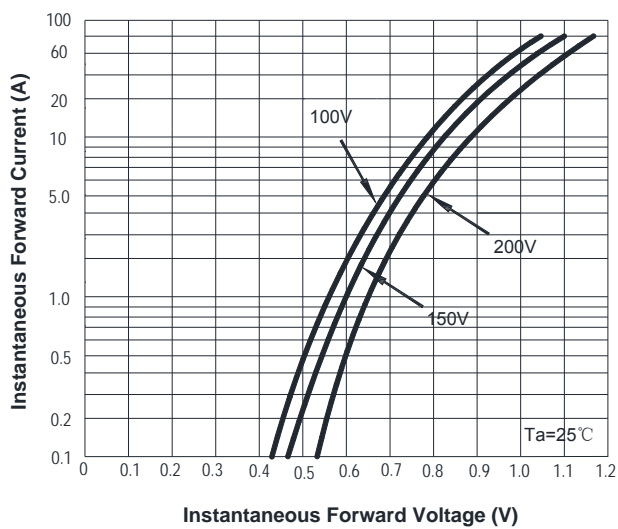
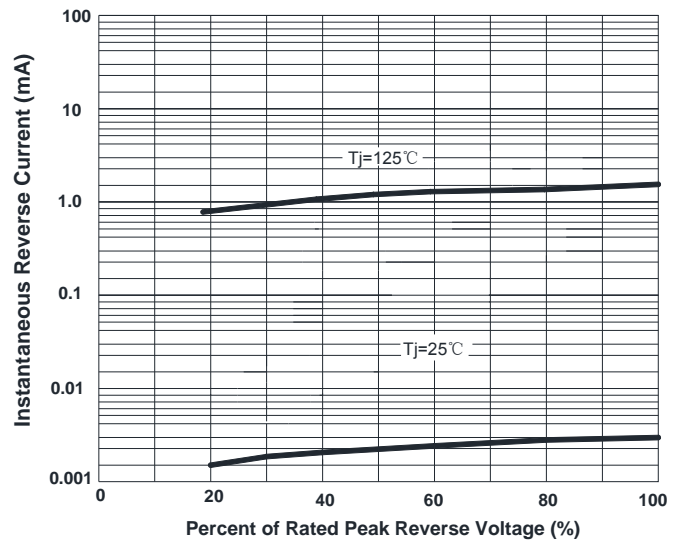


FIG4: Instantaneous Reverse Characteristics



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