

SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage: 150,200V
Forward Current: 20A

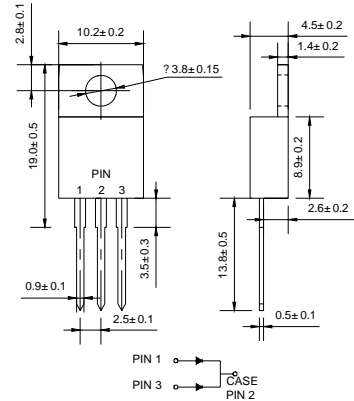
FEATURES

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop, low switching losses
- High surge capacity
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications
- The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- **Case:** JEDEC TO-220AB, molded plastic body
- **Terminals:** Solderable per MIL-STD-750, Method 2026
- **Polarity:** As marked
- **Mounting Position:** Any
- **Weight:** 0.071 ounce, 2.006 grams

TO-220AB



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Parameter | Symbol | MBR20150CT | MBR20200CT | UNITS |
|---|-----------------|--------------|------------|--------------------|
| Maximum recurrent peak reverse voltage | V_{RRM} | 150 | 200 | V |
| Maximum RMS voltage | V_{RWS} | 135 | 140 | V |
| Maximum DC blocking voltage | V_{DC} | 150 | 200 | V |
| Maximum average forward total device rectified current @ $T_C=100^\circ\text{C}$ | $I_{(AV)}$ | 20 | | A |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load | I_{FSM} | 150 | | A |
| Maximum instantaneous forward voltage @10A | V_F | 0.95 | | V |
| Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=100^\circ\text{C}$ | I_R | 0.2 50 | | mA |
| Maximum thermal resistance (Note1) | $R_{\theta JC}$ | 1.5 | | $^\circ\text{C/W}$ |
| Operating junction temperature range | T_J | -55 --- +150 | | $^\circ\text{C}$ |
| Storage temperature range | T_{STG} | -55 --- +150 | | $^\circ\text{C}$ |

NOTES: 1. Thermal resistance from junction to case.

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FIG.1 TYPICAL FORWARD CHARACTERISTICS

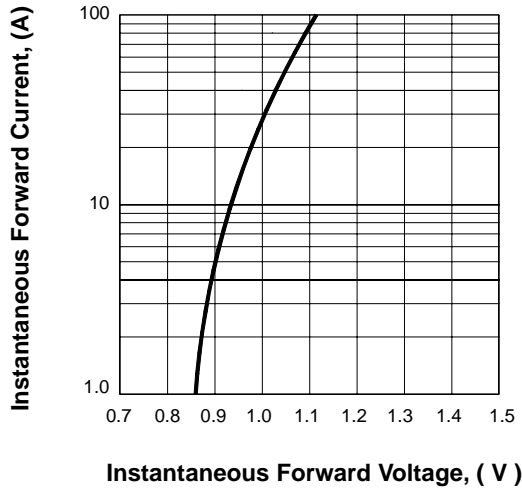


FIG.2 FORWARD DERATING CURVE

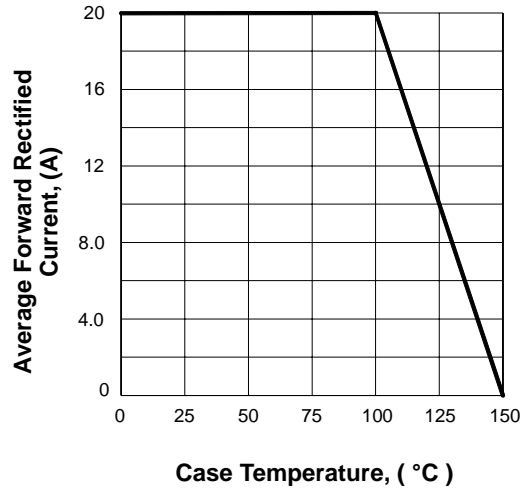


FIG.3 TYPICAL REVERSE CHARACTERISTICS

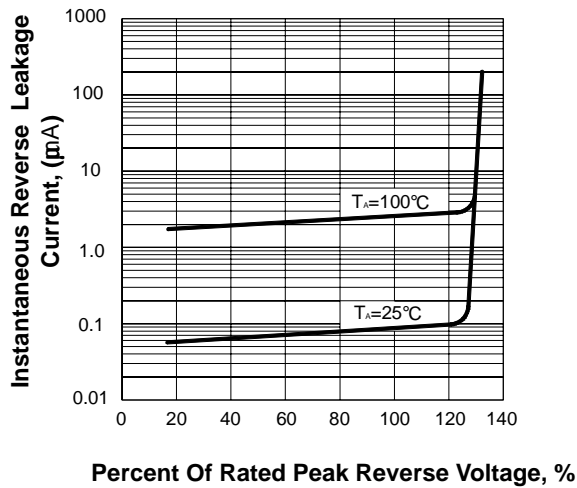


FIG.4 PEAK FORWARD SURGE CURRENT

