



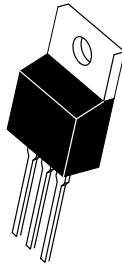
MBR1020CT THRU MBR10200CT

10.0 AMP SCHOTTKY BARRIER RECTIFIERS



FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability
- * Good for switching mode application



MECHANICAL DATA

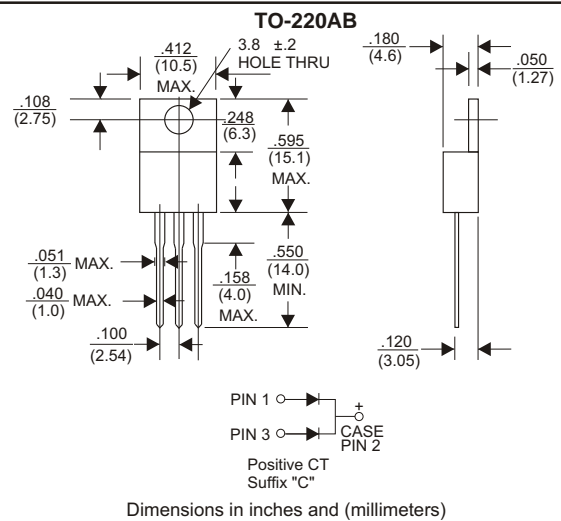
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: As Marked
- * Mounting position: Any

VOLTAGE RANGE

20 to 200 Volts

CURRENT

10.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
 Single phase half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

| TYPE NUMBER | MBR1020CT | MBR1045CT | MBR1060CT | MBR1080CT | MBR10100CT | MBR10150CT | MBR10200CT | UNITS |
|---|------------|-----------|-----------|-----------|------------|------------|------------|-------|
| Maximum Recurrent Peak Reverse Voltage | 20 | 45 | 60 | 80 | 100 | 150 | 200 | V |
| Maximum RMS Voltage | 14 | 32 | 42 | 56 | 70 | 105 | 140 | V |
| Maximum DC Blocking Voltage | 20 | 45 | 60 | 80 | 100 | 150 | 200 | V |
| Maximum Average Forward Rectified Current at Tc=125°C | 10 | | | | | | | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 150 | | | | | | | A |
| Maximum Instantaneous Forward Voltage at 10A | 0.55 | 0.7 | 0.85 | | 0.92 | | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | 0.1 | | | | 0.02 | | | mA |
| | 5 | | | | 2 | | | mA |
| Typical Junction Capacitance (Note1) | 420 | | | | | | | pF |
| Typical Thermal Resistance RθJC (Note 2) | 2.5 | | | | | | | °C/W |
| Operating Temperature Range Tj | -65 — +150 | | | | | | | °C |
| Storage Temperature Range Tstg | -65 — +150 | | | | | | | °C |

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES (MBR1020CT THRU MBR10200CT)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

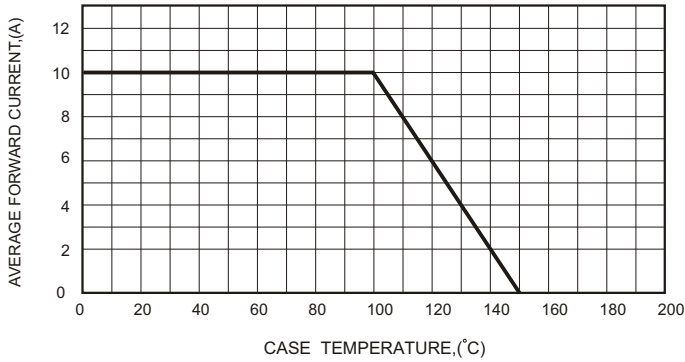


FIG.2-TYPICAL FORWARD CHARACTERISTICS

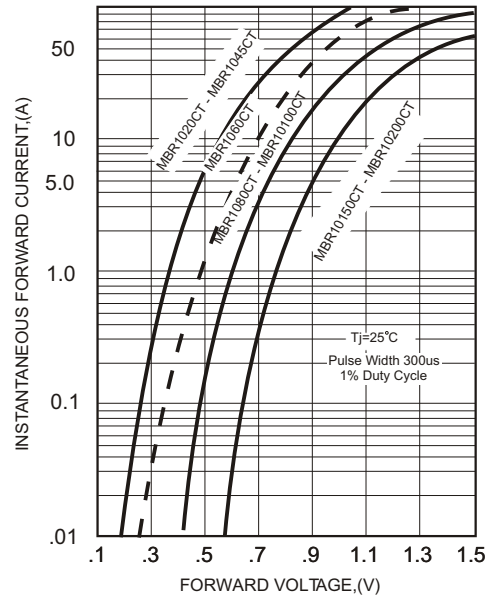


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

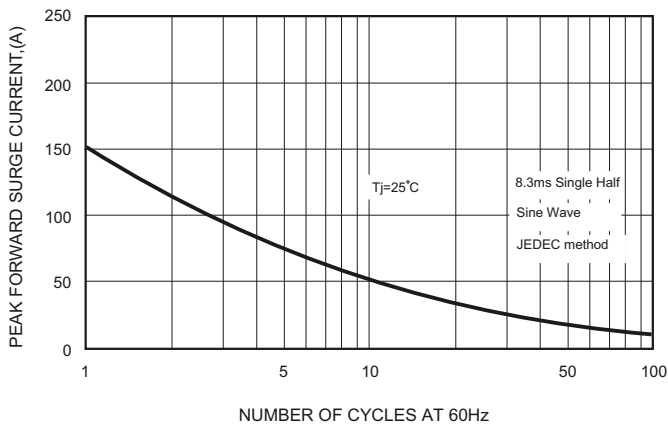
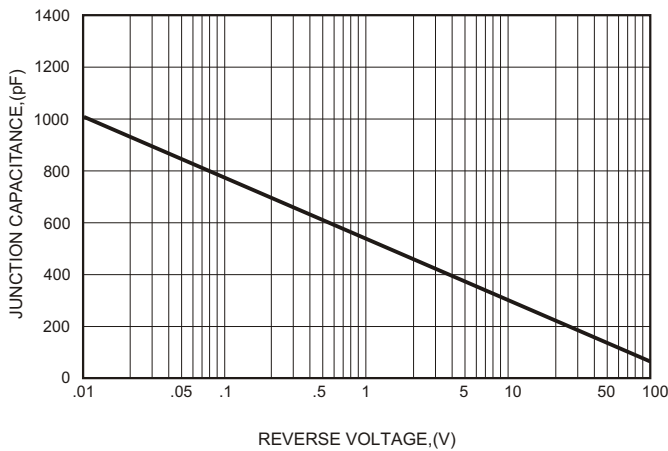


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



FIG.4-TYPICAL JUNCTION CAPACITANCE



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