

FEATURES

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

MECHANICAL DATA

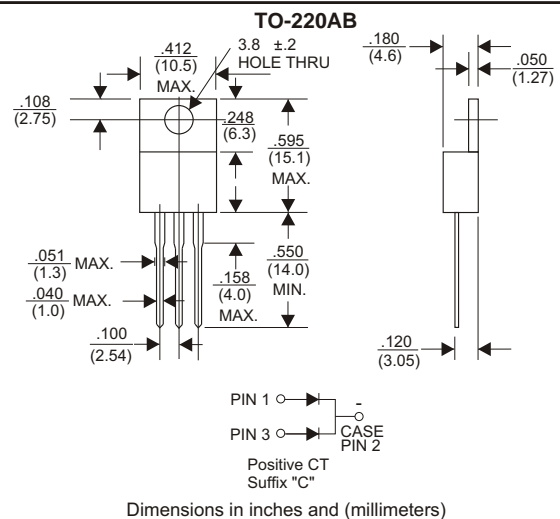
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: As Marked
- * Mounting position: Any

VOLTAGE RANGE

45 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 | MBR10L45CT | MBR10L60CT | MBR10L100CT | MBR10L150CT | MBR10L200CT | UNITS | |
|---|------------|------------|-------------|-------------|-------------|------------|------|
| Maximum Recurrent Peak Reverse Voltage | 45 | 60 | 100 | 150 | 200 | V | |
| Maximum RMS Voltage | 45 | 60 | 100 | 150 | 200 | V | |
| Maximum DC Blocking Voltage | 32 | 42 | 70 | 105 | 140 | 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 | 0.46 | 0.55 | 0.7 | 0.85 | | V | |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | | | | | | 0.2 | mA |
| | | | | | | 50 | 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 (MBR10L45CT THRU MBR10L200CT)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

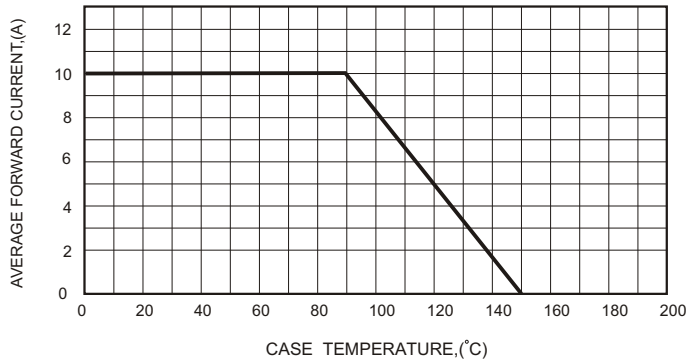


FIG.2-TYPICAL FORWARD CHARACTERISTICS

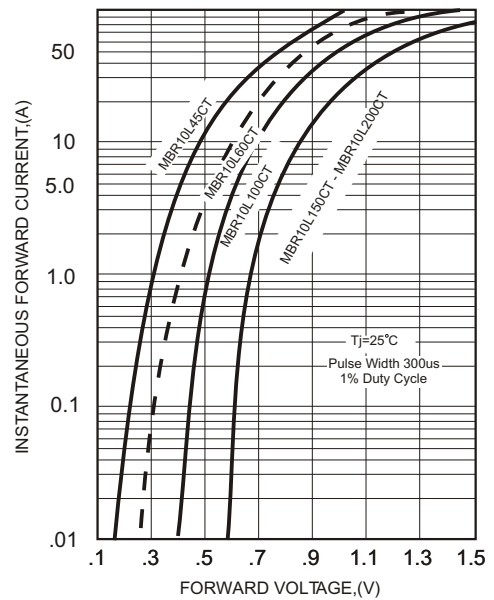


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

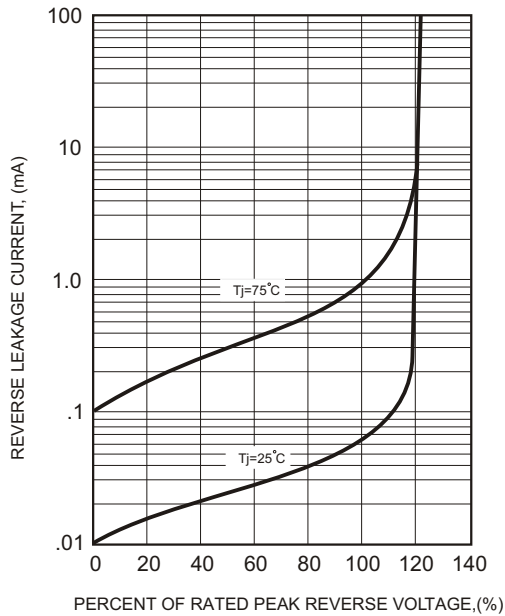
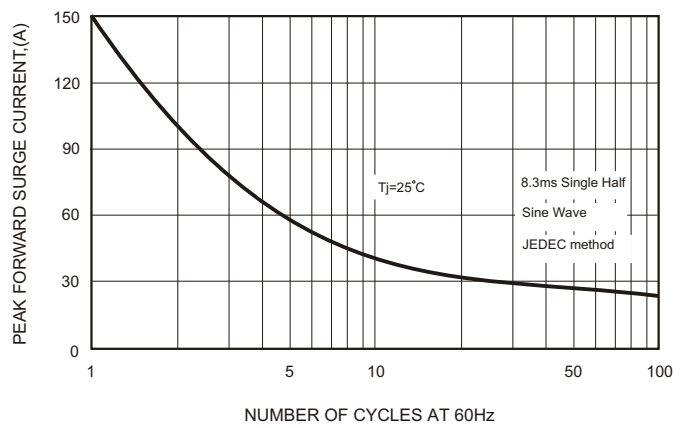


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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