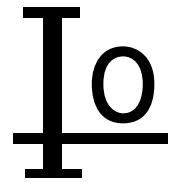


MBR2060LCT

Schottky Barrier Diodes Low Forward Voltage
20 A Total (10A Per Diode Leg)



FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- Dual rectifier construction
- High temperature soldering guaranteed:260° C/10 seconds,, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2011/65/ EU

MECHANICAL DATA

- Case: JEDEC TO-220AB molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked
- Mounting Position: Any
- Weight: 1.81 gram
- * Lead Free Finish/RoHS Compliant

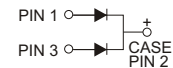
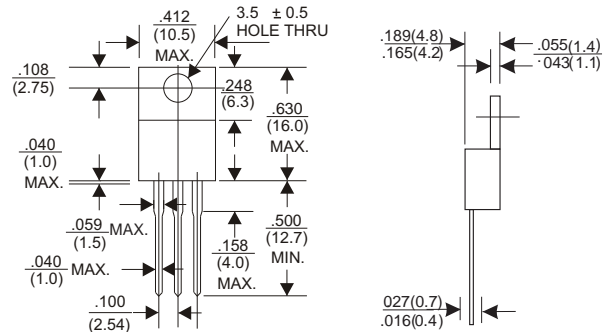
VOLTAGE RANGE

60 Volts

CURRENT

20.0Ampere

TO-220AB



Dimensions in inches and (millimeters)

RATINGS (Per Diode Leg)

| Rating | Symbol | MBR2060LCT | Unit |
|--|-------------|--------------|------------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 60 | V |
| Average Rectified Forward Current (Rated V_R) $T_C = 133^\circ\text{C}$ | $I_{F(AV)}$ | 10 | A |
| Peak Repetitive Forward Current (Rated V_R , Square Wave, 20 kHz) $T_C = 133^\circ\text{C}$ | I_{FRM} | 20 | A |
| Typical Instantaneous Forward Voltage ($i_F = 10\text{Amps}$, $T_C = 25^\circ\text{C}$) | V_F | 0.55 | V |
| Nonrepetitive Peak Surge Current (Surge applied at rates load conditions halfwave, single phase, 60Hz) | I_{FSM} | 200 | A |
| Peak Repetitive Reverse Surge Current (2.0 μs , 1.0 kHz) | I_{RRM} | 5 | A |
| Operating Junction Temperature | T_J | - 65 to +150 | $^\circ\text{C}$ |
| Voltage Rate of Change (Rated V_R) | dv/dt | 10,000 | $\text{V}/\mu\text{s}$ |
| Maximum Instantaneous Reverse Current (Rated dc Voltage, $T_C = 125^\circ\text{C}$) | I_R | 100 | mA |
| (Rated dc Voltage, $T_C = 25^\circ\text{C}$) | | 0.5 | |

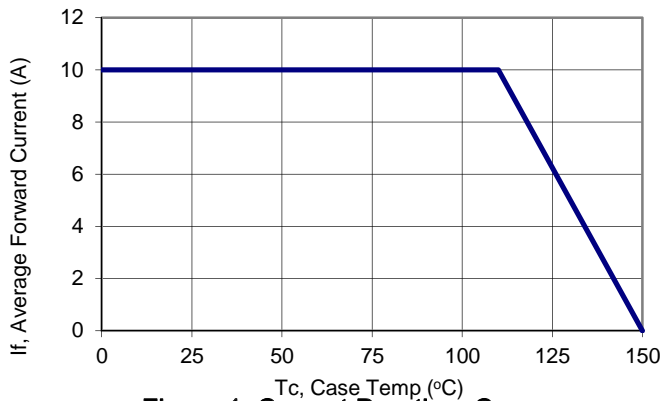


Figure 1: Current Derating, Case

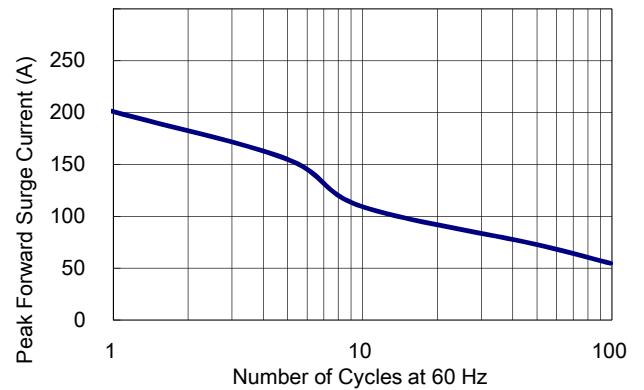


Figure 2: Maximum Repetitive Surge Current

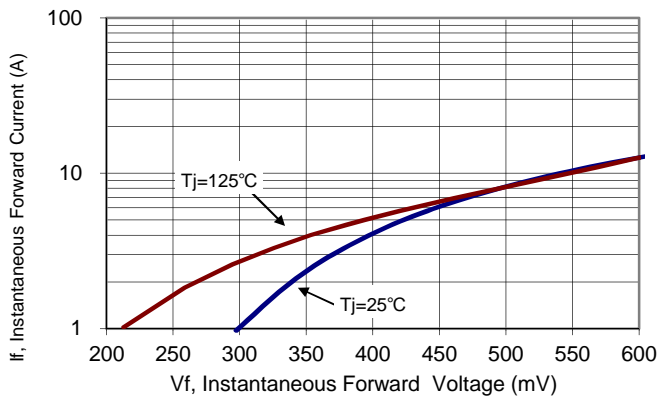


Figure 3: Typical Forward Voltage

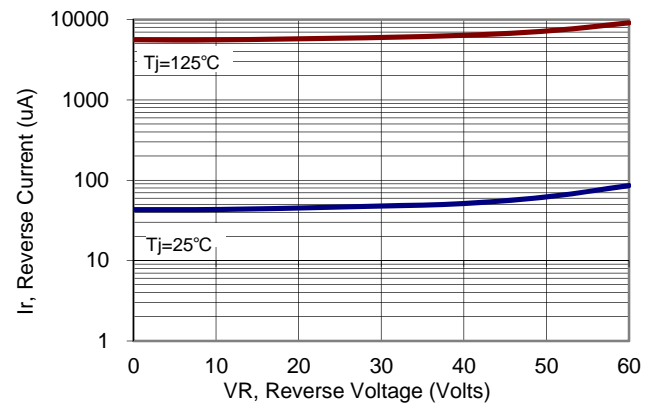


Figure 4: Typical Reverse Current

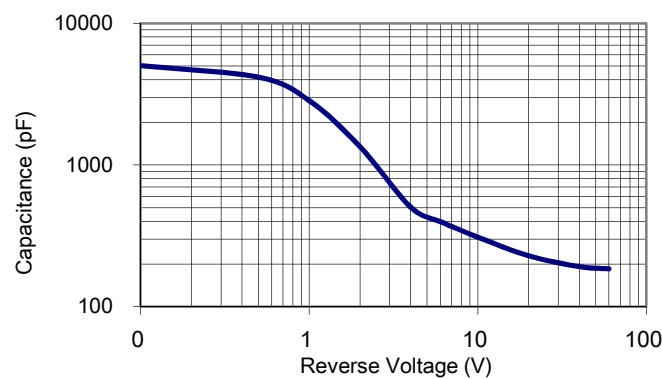


Figure 5: Typical Junction Capacitance