

# MBRB2035CT THRU MBRB20200CT

20.0 A Schottky Barrier Rectifier



## FEATURES

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* Low Power Loss, High Efficiency

## MECHANICAL DATA

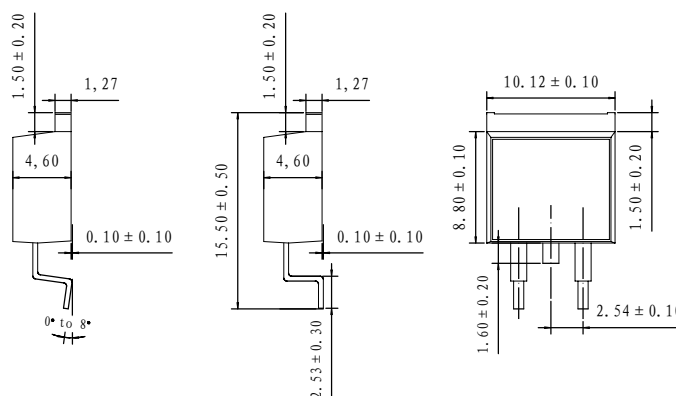
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 1.98 grams

## VOLTAGE RANGE

35 to 200 Volts

## CURRENT

20.0 Ampere



## Maximum Ratings and Electrical Characteristics

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

| Type Number  | Symbol | MBRB        | MBRB       | MBRB       | MBRB       | MBRB       | MBRB        | MBRB        | MBRB        | Unit |
|--|--------|-------------|------------|------------|------------|------------|-------------|-------------|-------------|------|
|  |        | 2035<br>CT  | 2045<br>CT | 2050<br>CT | 2060<br>CT | 2080<br>CT | 20100<br>CT | 20150<br>CT | 20200<br>CT |      |
| Maximum Repetitive Peak Reverse Voltage  | VRRM   | 35          | 45         | 50         | 60         | 80         | 100         | 150         | 200         | V    |
| Maximum RMS Voltage  | VRMS   | 24          | 31         | 35         | 42         | 56         | 70          | 105         | 140         | V    |
| Maximum DC Blocking Voltage  | VDC    | 35          | 45         | 50         | 60         | 80         | 100         | 150         | 200         | V    |
| Maximum Average Forward Rectified Current  | IF     | 20          |            |            |            |            |             |             |             | A    |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | IFSM   | 120         |            |            |            |            |             |             |             | A    |
| Maximum Instantaneous Forward Voltage @10A   | VF     | 0.75        | 0.85       |            | 0.9        |            | 0.95        |             |             | V    |
| Maximum Reverse Current @ Rated VR TA=25 °C<br>TA=125 °C   | IR     | 300<br>1500 |            |            |            |            |             |             |             | uA   |
| Typical Junction Capacitance (Note 1)  | Cj     | 650         |            |            |            |            |             |             |             | pF   |
| Typical Thermal Resistance(Note 2)   | RθJA   | 30          |            |            |            |            |             |             |             | °C/w |
| Operating and Storage Temperature Range  | TJ     | -65--+150   |            |            |            |            |             |             |             | °C   |

NOTE1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

NOTE2. Leads maintained at ambient temperature at a distance of 9.5mm from the case

# MBRB2035CT THRU MBRB20200CT

20.0 A Schottky Barrier Rectifier



## RATINGS AND CHARACTERISTIC CURVES (MBRB2035CT THRU MBRB20200CT)

