



SCHOTTKY DIODE MODULE TYPE 200A

Features

High surge Capability
Type 150V V_{RRM}

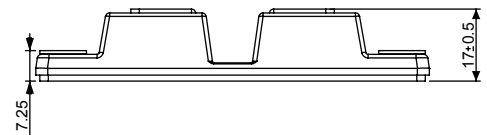


Maximum Ratings

Operating Temperature : -55 °C to +150 °C
Storage Temperature : -55 °C to +150 °C

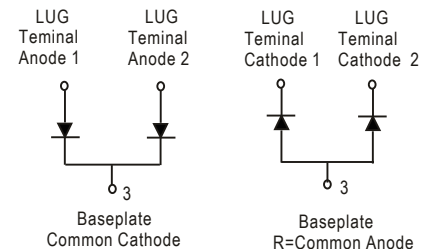
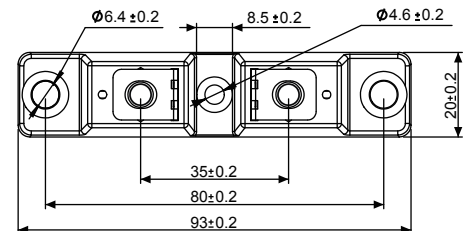
| Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|----------------|--|---------------------|-----------------------------|
| MBR200150CT(R) | 150V | 105V | 150V |

Dimensions in mm (1 mm = 0.0394")



Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-----------------|------------------------|--|
| Average Forward Current (Per pkg) | $I_{F(AV)}$ | 200A | $T_C = 125^\circ C$ |
| Peak Forward Surge Current (Per leg) | I_{FSM} | 1500A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage (Per leg) NOTE (1) | V_F | 0.88V | $I_{FM} = 100A; T_J = 25^\circ C$ |
| Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg) NOTE (1) | I_R | 3mA 10mA 50mA | $T_J = 25^\circ C$ $T_J = 100^\circ C$ $T_J = 150^\circ C$ |
| Maximum Thermal Resistance Junction To Case (Per leg) | $R_{\theta jc}$ | 0.40°C/W | |
| Mounting torque | | 3 ± 0.5Nm 3 ± 0.5Nm | To heatsink To terminals |



NOTE : (1) Pulse Test: Pulse Width 300 μ sec, Duty < 2%



Figure .1- Typical Forward Characteristics

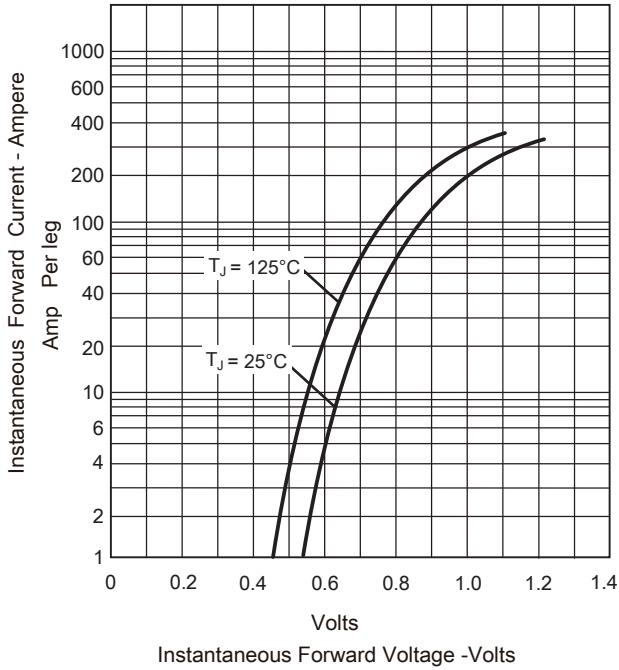


Figure .2-Forward Derating Curve

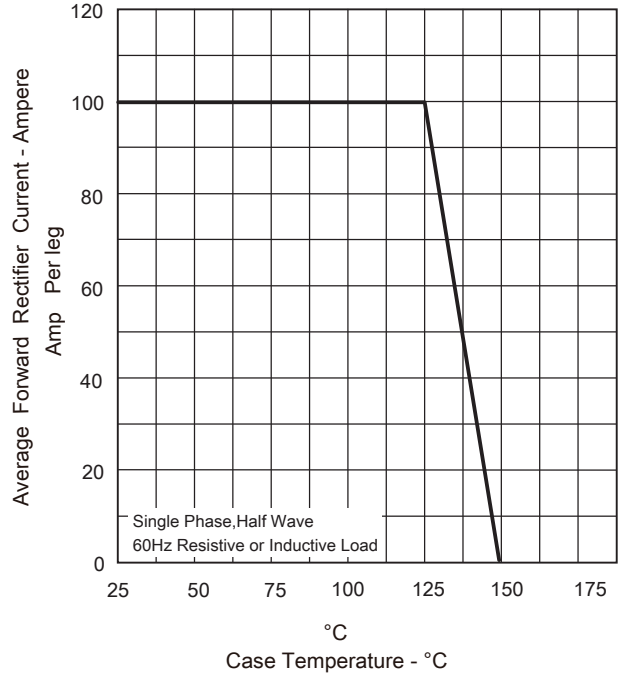


Figure .3- Peak Forward Surge Current

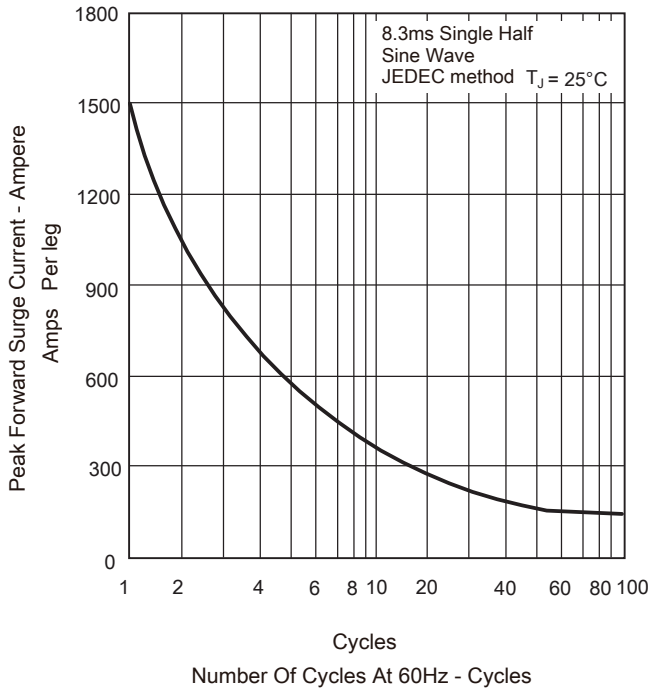


Figure .4-Typical Reverse Characteristics

