



SCHOTTKY DIODE MODULE TYPE 200A

Features

- High Surge Capability
- Type 150V V_{RRM}
- Isolation Type Package
- Electrically Isolation Base Plate

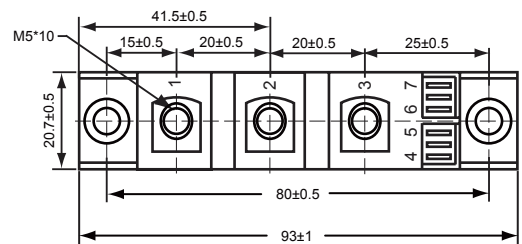
Maximum Ratings

Junction 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 |
|----------------------|--|---------------------|-----------------------------|
| MBRTT200150(A)(D)(R) | 150V | 105V | 150V |



Dimensions in mm (1mm = 0.0394")



Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|--|-----------------|------------------------|---|
| Average Forward Current (Per pkg) (Per diode) | $I_{F(AV)}$ | 200A 100A | $T_c = 125^\circ C$ |
| Peak Forward Surge Current (Per diode) | I_{FSM} | 1500A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage* (Per diode) | V_F | 0.78V 0.88V | $I_{FM} = 100A; T_J = 125^\circ C$ $I_{FM} = 100A; T_J = 25^\circ C$ |
| Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode) | I_R | 3mA 8mA 15mA | $T_J = 25^\circ C$ $T_J = 125^\circ C$ $T_J = 150^\circ C$ |
| Isolation Voltage | V_{iso} | 2500V | A.C. 1 minute |
| Maximum Thermal Resistance Junction To Case (Per diode) | $R_{\theta jc}$ | 0.45°C/W | |
| Mounting Torque | | 4 ± 0.5Nm 3 ± 0.5Nm | to heatsink to terminals |

*Pulse Test: Pulse Width 300μsec, Duty Cycle < 2%

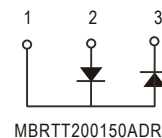
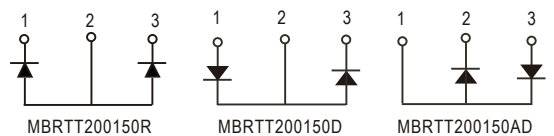
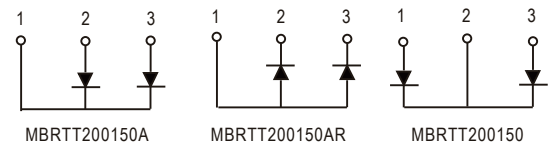
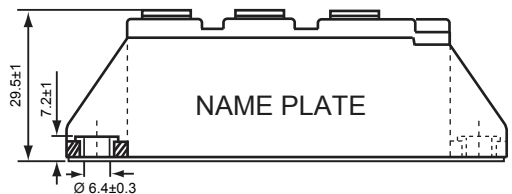




Figure.1 - Typical Forward Characteristics

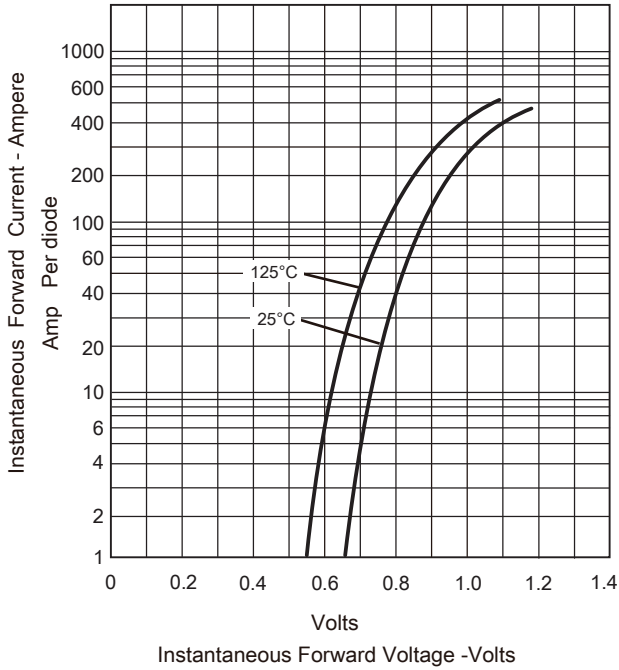


Figure.2 - Forward Derating Curve

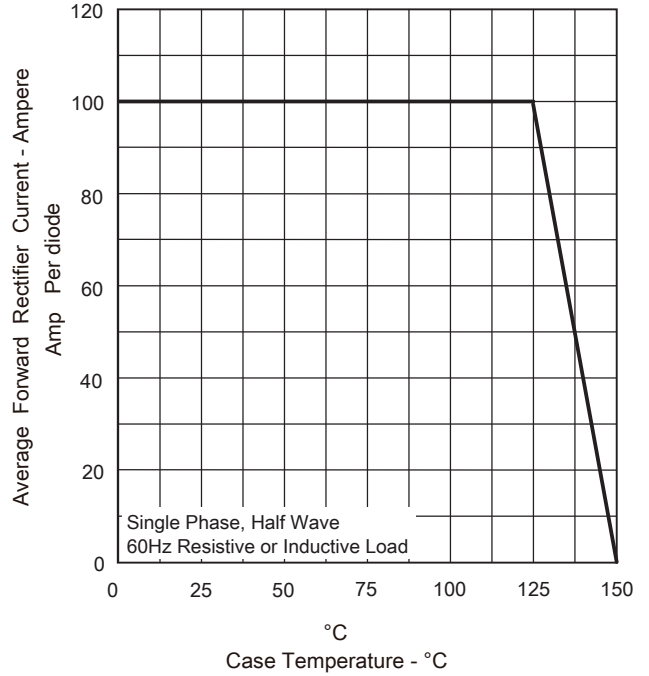


Figure.3 - Peak Forward Surge Current

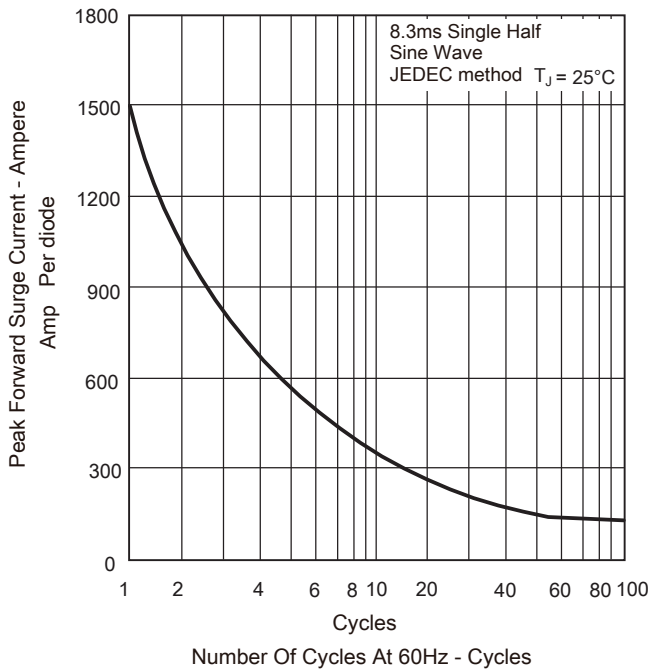
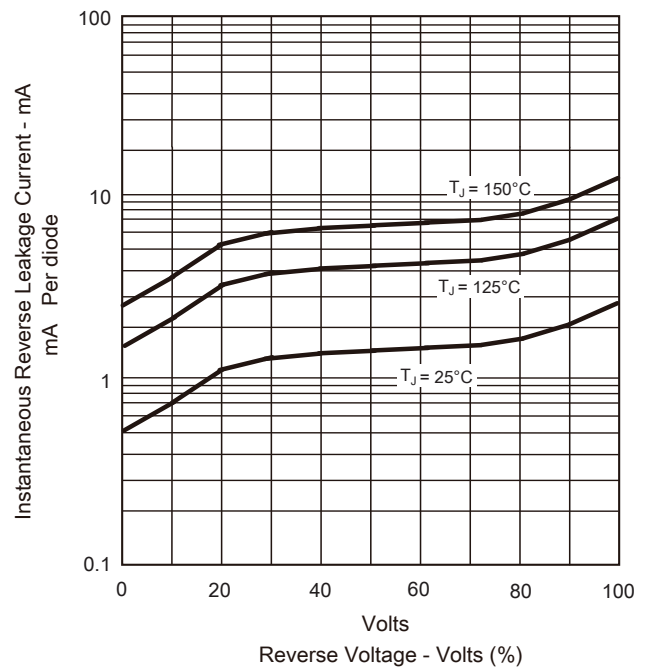


Figure.4 - Typical Reverse Characteristics





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