



**SCHOTTKY DIODE MODULE TYPE
800A / 100V**

Features

- High Surge Capability
- Type 100V V_{RRM}
- Isolation Type Package
- Electrically Isolation Base Plate

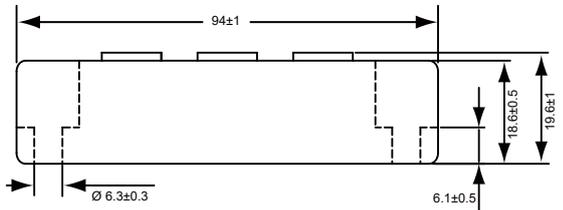
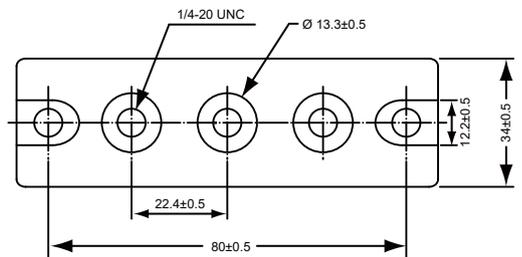


Maximum Ratings

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 |
|----------------------|--|---------------------|-----------------------------|
| MBRTA801100(A)(D)(R) | 100V | 70V | 100V |

Dimensions in mm (1 mm = 0.0394")



Electrical Characteristics @ 25 °C Unless Otherwise Specified

| | | | |
|--|-----------------|---------------------|--|
| Average Forward Current (Per pkg) (Per diode) | $I_{F(AV)}$ | 800A 400A | $T_C = 100^\circ C$ |
| Peak Forward Surge Current (Per diode) | I_{FSM} | 6100A | 8.3ms , half sine |
| Maximum Instantaneous Forward Voltage * (Per diode) | V_F | 0.84V | $I_{FM}=400A;$ $T_J = 25^\circ C$ |
| Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode) | I_R | 1mA 10mA 50mA | $T_J = 25^\circ C$ $T_J = 100^\circ C$ $T_J = 150^\circ C$ |
| Isolation Voltage | V_{iso} | 3000V | A.C. 1 minute |
| Maximum Thermal Resistance Junction To Case (Per diode) | $R_{\theta jc}$ | 0.25°C/W | |

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

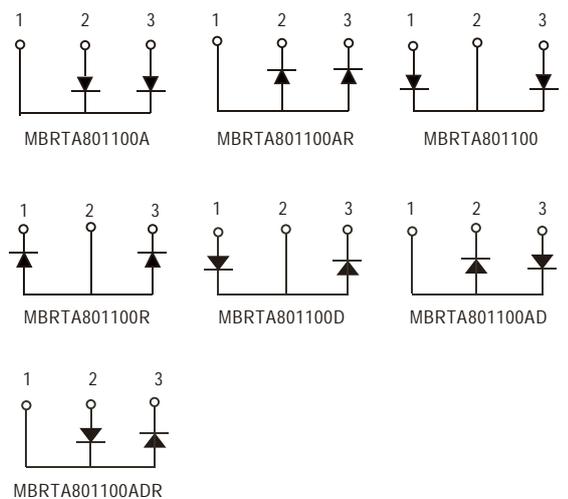




Figure .1- Typical Forward Characteristics

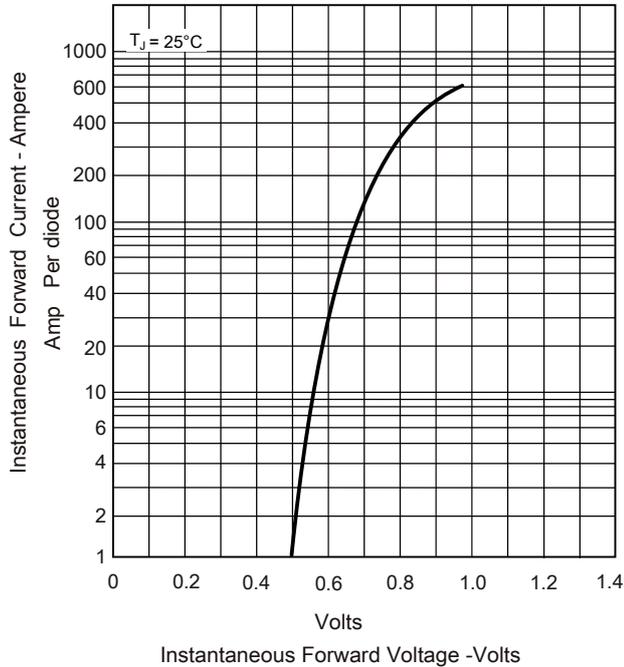


Figure .2-Forward Derating Curve

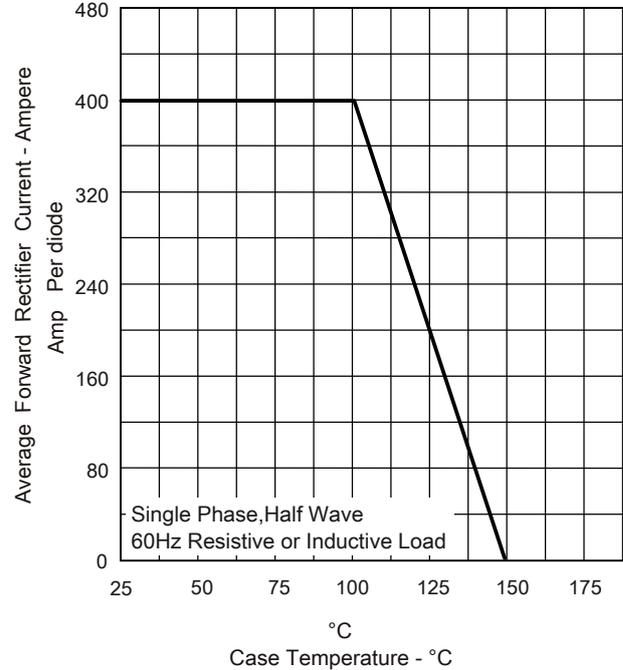


Figure .3-Peak Forward Surge Current

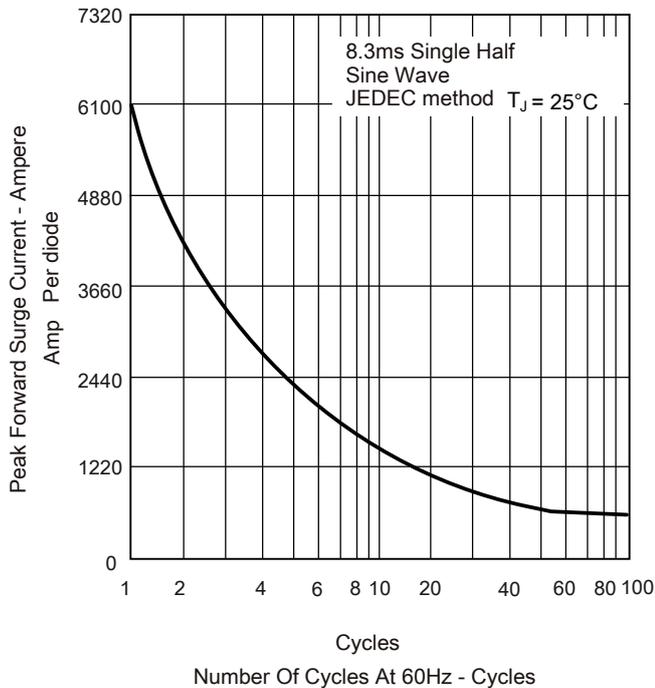
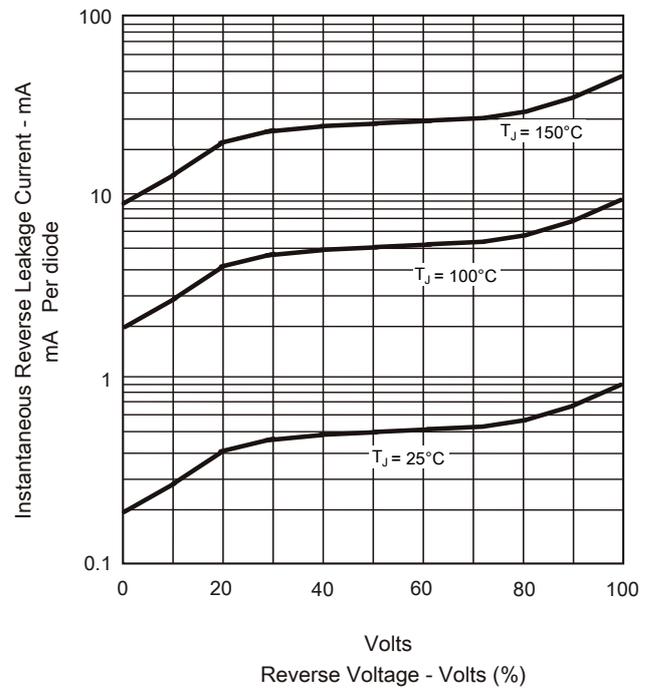


Figure .4-Typical Reverse Characteristics





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