



**SUPER FAST DIODE MODULE TYPE 200A**

**Features**

- High Surge Capability
- Type 1000V  $V_{RRM}$
- Isolation Type Package
- Electrically Isolation base plate

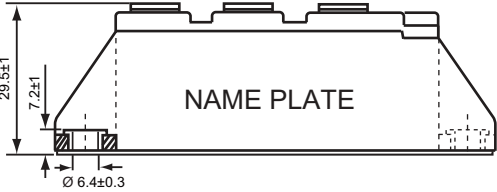
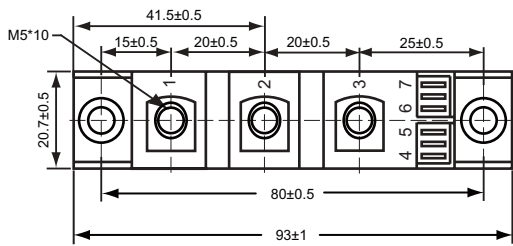
**Maximum Ratings**

Junction Operating Temperature : -55°C to +175°C  
 Storage Temperature : -55°C to +175°C



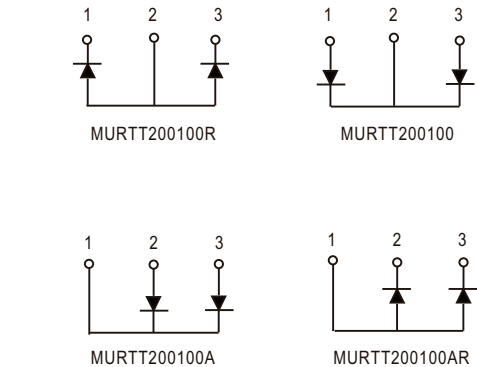
| Part Number       | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-------------------|--|---------------------|-----------------------------|
| MURTT200100(A)(R) | 1000V                                  | 700V                | 1000V                       |

Dimensions in mm (1 mm = 0.0394")



**Electrical Characteristics @ 25 °C Unless Otherwise Specified**

|  |                 |                        |  |
|--|-----------------|------------------------|--|
| Average Forward Current (Per pkg)  | $I_{F(AV)}$     | 200A                   | $T_C = 140^\circ C$                          |
| Peak Forward Surge Current (Per diode)   | $I_{FSM}$       | 2000A                  | 8.3ms , half sine                            |
| Maximum Instantaneous Forward Voltage* (Per diode)                             | $V_F$           | 2.35V                  | $I_{FM}=100A; T_J = 25^\circ C$              |
| Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode) | $I_R$           | 25µA<br>2mA            | $T_J = 25^\circ C$<br>$T_J = 125^\circ C$    |
| Maximum Reverse Recovery Time (Per diode)                                      | $T_{rr}$        | 130ns                  | $I_F = 0.5A, I_R = 1.0A$<br>$I_{RR} = 0.25A$ |
| 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<br>3 ± 0.5Nm | to heatsink<br>to terminal                   |



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



Figure .1- Typical Forward Characteristics

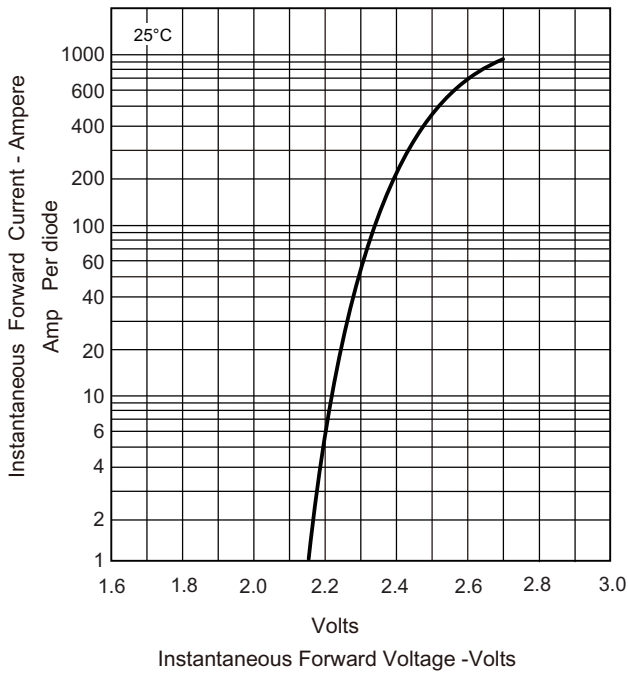


Figure .2-Forward Derating Curve

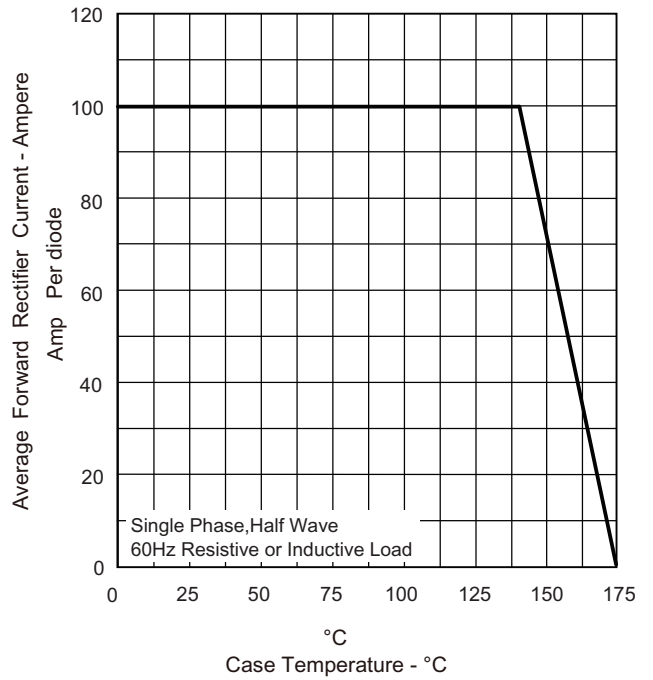


Figure .3-Peak Forward Surge Current

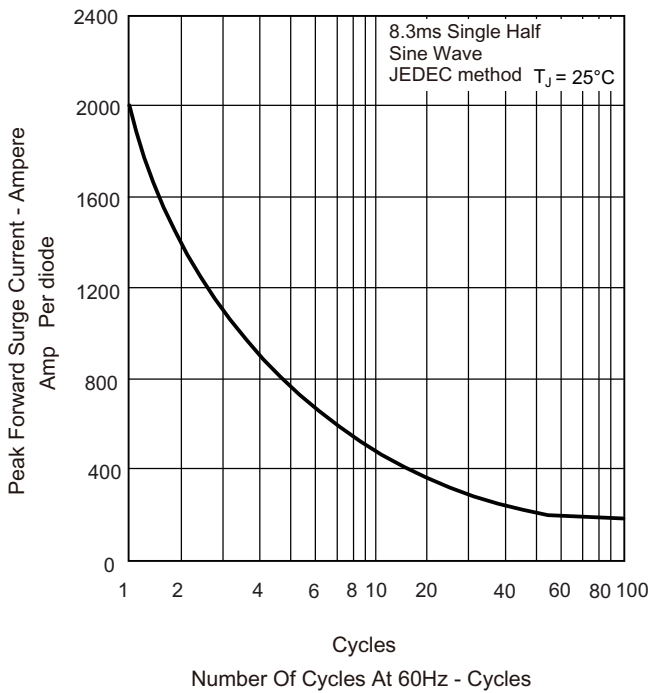
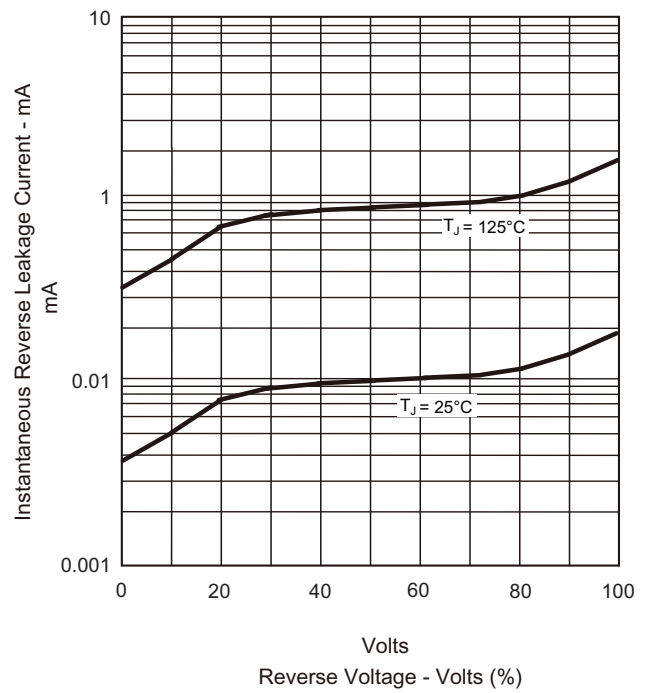


Figure .4 -Typical Reverse Characteristics





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