



**SUPER FAST DIODE MODULE TYPE
300A / 400V**

Features

- High Surge Capability
- Type 400V V_{RRM}
- Isolation Type Package
- Electrically Isolation base plate

Maximum Ratings

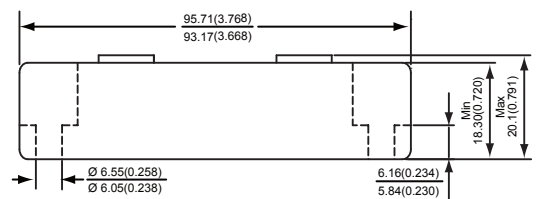
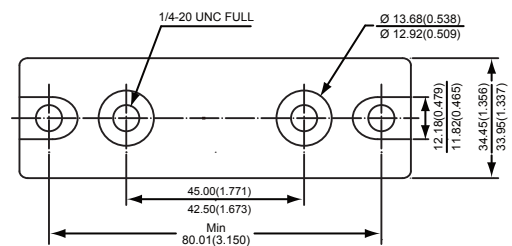
- Operating Temperature : -55°C to $+175^{\circ}\text{C}$
- Storage Temperature : -55°C to $+175^{\circ}\text{C}$

| Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-------------|--|---------------------|-----------------------------|
| MURIDA30040 | 400V | 280V | 400V |



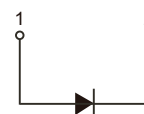
HEAVY DIODE

Dimensions in mm (1 mm = 0.0394")



Electrical Characteristics @ 25 °C Unless Otherwise Specified

| | | | |
|--|-----------------|--------------------------|---|
| Average Forward Current (Per pkg) | $I_{F(AV)}$ | 300A | $T_C = 100^{\circ}\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 4400A | 8.3ms , half sine |
| Maximum Instantaneous Forward Voltage * | V_F | 1.30V | $I_{FM}=300\text{A}; T_J = 25^{\circ}\text{C}$ |
| Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* | I_R | 30 μA 5 mA | $T_J = 25^{\circ}\text{C}$ $T_J = 125^{\circ}\text{C}$ |
| Maximum Reverse Recovery Time | T_{rr} | 200ns | $I_F = 0.5\text{A}, I_R=1.0\text{A}, I_{RR}=0.25\text{A}$ |
| Isolation Voltage | V_{isol} | 3000 V | A.C. 1minute |
| Maximum Thermal Resistance Junction To Case | $R_{\theta jc}$ | 0.28°C/W | |



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



Figure .1- Typical Forward Characteristics

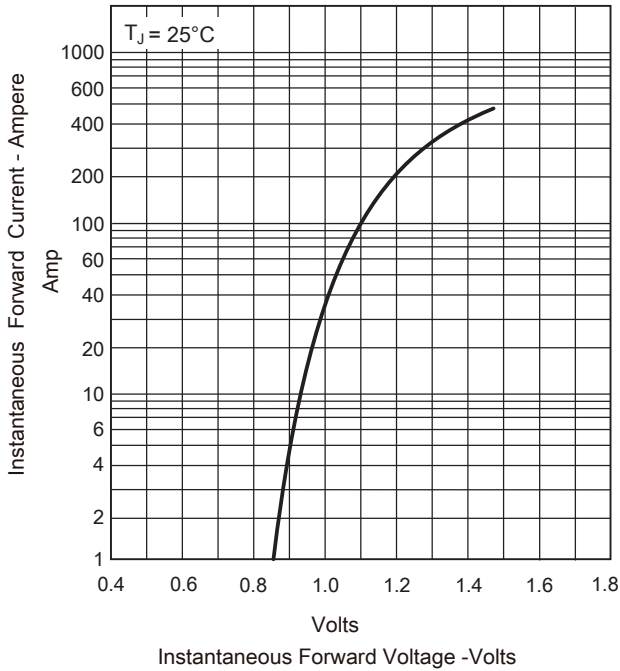


Figure .2-Forward Derating Curve

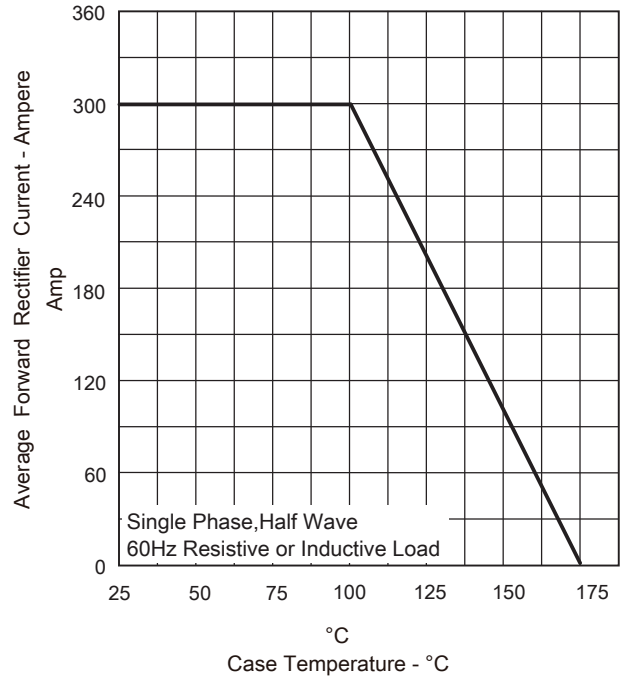


Figure .3-Peak Forward Surge Current

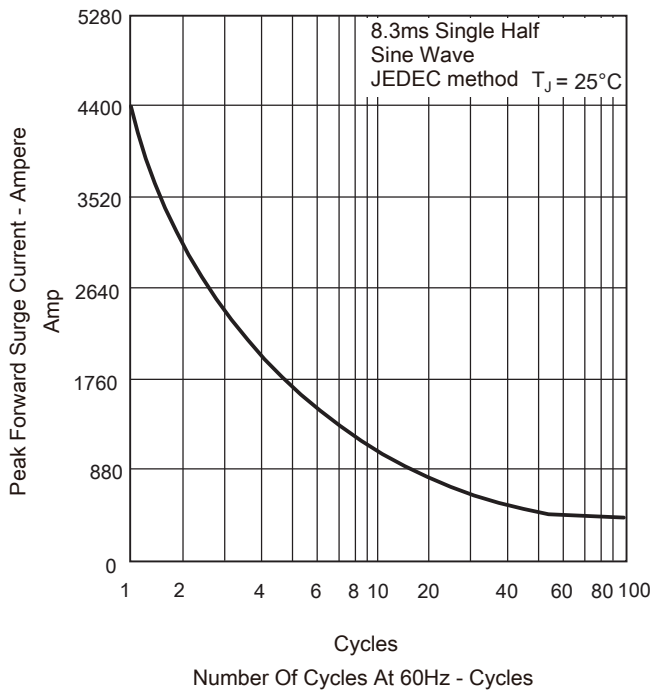
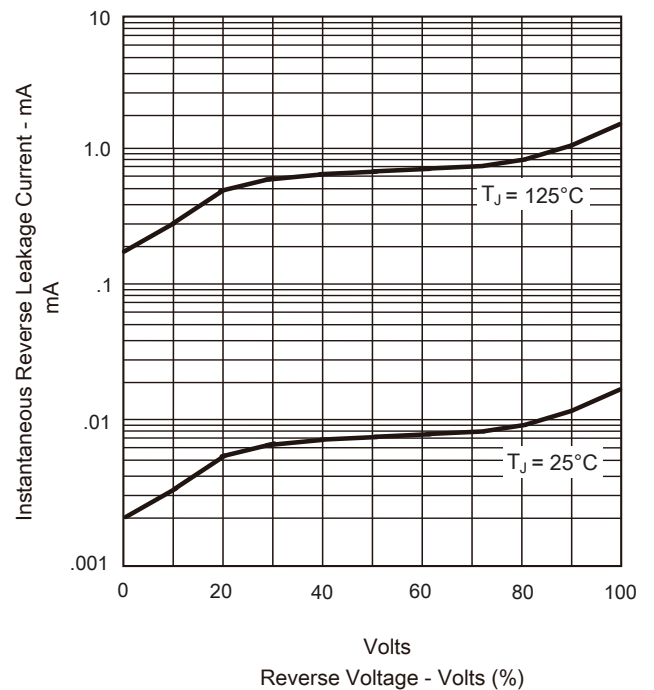


Figure .4-Typical Reverse Characteristics





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