



SUPER FAST DIODE MODULE TYPE 2X120 A

Features

- High Surge Capability
- Type 600V V_{RRM}
- Isolation Type Package
- Electrically Isolation base plate

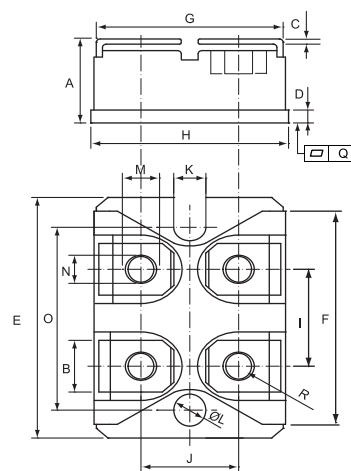


SOT-227

Maximum Ratings

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

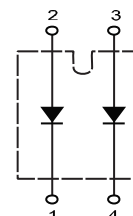
| Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|---------------|--|---------------------|-----------------------------|
| MURI2X120-06A | 600V | 420V | 600V |



Electrical Characteristics @ 25 °C Unless Otherwise Specified.

| | | | |
|---|-----------------|--------------------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 120 A | $T_c=100\text{ }^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 2100 A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage* | V_F | 1.40V | $I_{FM}=120\text{A}; T_J=25\text{ }^\circ\text{C}$ |
| Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage* | I_R | 25 μA 3mA | $T_J=25\text{ }^\circ\text{C}$ $T_J=150\text{ }^\circ\text{C}$ |
| Maximum Reverse Recovery Time | T_{rr} | 105 ns | $I_F=0.5\text{A}, I_R=1.0\text{A}$ $I_{RR}=0.25\text{A}$ |
| Isolation Voltage | V_{iso} | 2500 V | A.C. 1 minute |
| Maximum Thermal Resistance Junction To Case | $R_{\theta jc}$ | 0.38 $^\circ\text{C}/\text{W}$ | |
| Mounting torque | N-m | 1.3 | M4 Screw |

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



MURI 2X120-xxA

| | DIMENSIONS | | | |
|---|------------|-------|-------|-------|
| | INCHES | | MM | |
| | MIN | MAX | MIN | MAX |
| A | 0.460 | 0.483 | 11.68 | 12.28 |
| B | 0.307 | 0.323 | 7.80 | 8.20 |
| C | 0.030 | 0.033 | 0.75 | 0.85 |
| D | 0.071 | 0.081 | 1.80 | 2.05 |
| E | 1.488 | 1.504 | 37.80 | 38.20 |
| F | 1.248 | 1.260 | 31.70 | 32.00 |
| G | 0.917 | 0.957 | 23.30 | 24.30 |
| H | 0.996 | 1.008 | 25.30 | 25.60 |
| I | 0.579 | 0.602 | 14.70 | 15.30 |
| J | 0.492 | 0.516 | 12.50 | 13.10 |
| K | 0.161 | 0.169 | 4.10 | 4.30 |
| L | 0.161 | 0.169 | 4.10 | 4.30 |
| M | 0.181 | 0.197 | 4.60 | 5.00 |
| N | 0.165 | 0.181 | 4.20 | 4.60 |
| O | 1.181 | 1.197 | 30.00 | 30.40 |
| Q | -0.002 | 0.004 | -0.05 | 0.10 |
| R | M4*8 | | | |



Figure .1- Typical Forward Characteristics

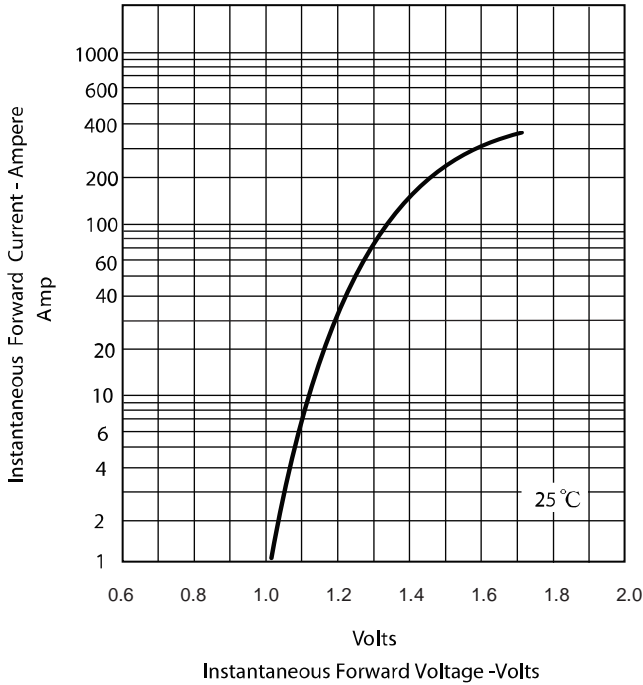


Figure.2 - Forward Derating Curve

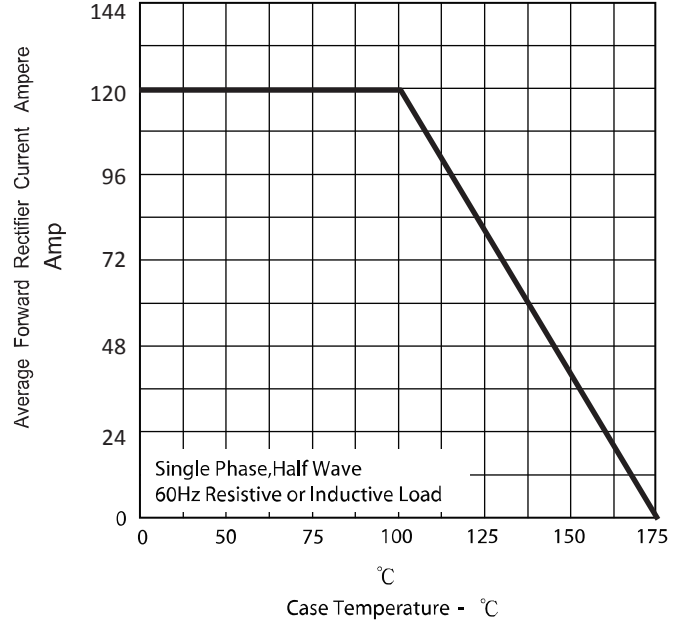


Figure.3 - Peak Forward Surge Current

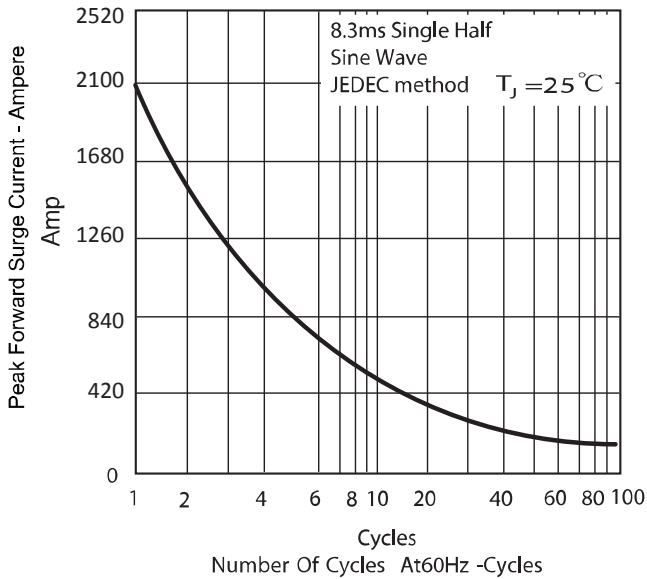
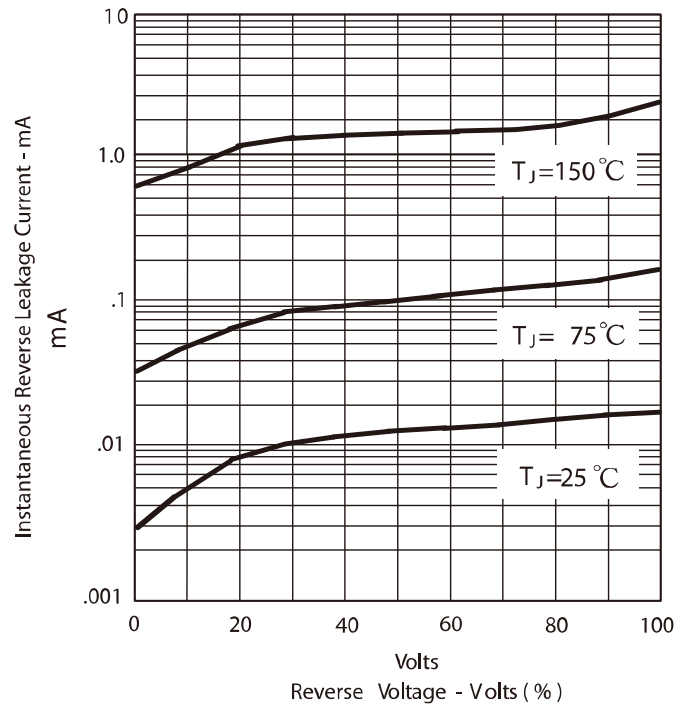


Figure .4 -Typical Reverse Characteristics





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