



LOW VF SCHOTTKY DIODE MODULE TYPE 300A

Features

- High Surge Capability
- Isolation Type Package
- Electrically Isolation base plate

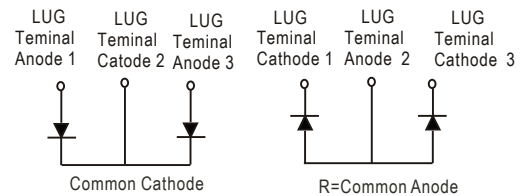
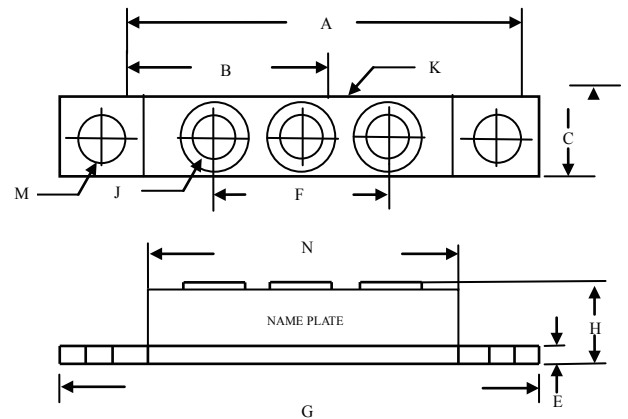
300 Amp Rectifier
45 Volts

Maximum Ratings

Operating Temperature: -40 °C to +100 °C
Storage Temperature: -40 °C to +150 °C

| Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|---------------|--|---------------------|-----------------------------|
| MBRT30045(R)L | 45V | 32V | 45V |
| | | | |
| | | | |
| | | | |

THREE TOWER



Electrical Characteristics @ 25 °C Unless Otherwise Specified

| | | | |
|--|-----------------|--------------|---|
| Average Forward Current (Per pkg) | $I_{F(AV)}$ | 300A | $TC=100^{\circ}C$ |
| Peak Forward Surge Current (Per leg) | I_{FSM} | 2000A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage (Per leg) | V_F | 0.60V | $I_{FM}=150A ; T_J=25^{\circ}C$ |
| Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg) | I_R | 5mA 250mA | $T_J=25^{\circ}C$ $T_J=100^{\circ}C$ |
| Maximum Thermal Resistance Junction To Case (Per leg) | $R_{\theta jc}$ | 0.40 °C/W | |

NOTE :

(1) Pulse Test: Pulse Width 300 μ sec. Duty Cycle < 2%

| DIM | Inches | | Millimeters | |
|-----|-----------------|-------|-------------|-------|
| | Min | Max | Min | Max |
| A | 3.150 | NOM | 80.01 | NOM |
| B | 1.565 | 1.585 | 39.75 | 40.26 |
| C | .700 | .800 | 17.78 | 20.32 |
| E | .119 | .132 | 3.02 | 3.35 |
| F | 1.327 | REF | 33.72 | REF |
| G | 3.55 | 3.65 | 90.17 | 92.71 |
| H | ----- | .73 | ----- | 18.30 |
| J | 1/4-20 UNC FULL | | | |
| K | .472 | .511 | 12 | 13 |
| M | .275 | .295 | 6.99 | 7.49 |
| N | 2.38 | 2.46 | 60.5 | 62.5 |



Figure .1-Typical Forward Characteristics

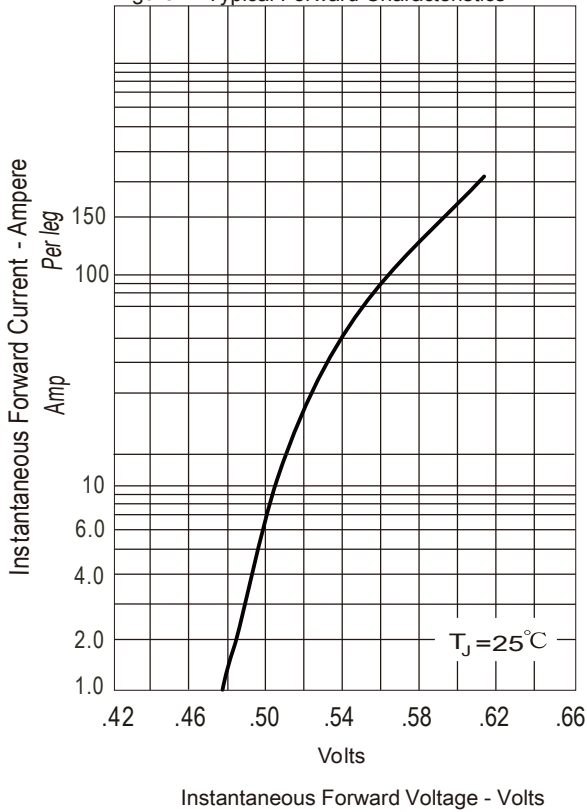


Figure .2- Forward Derating Curve

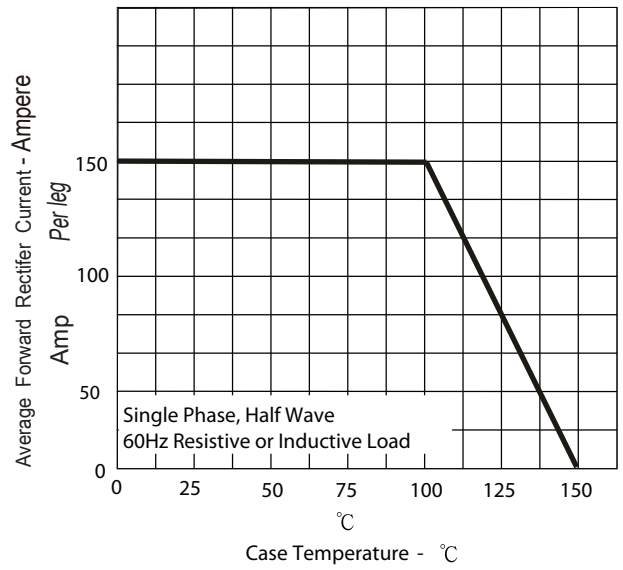


Figure .4-Typical Reverse Characteristics

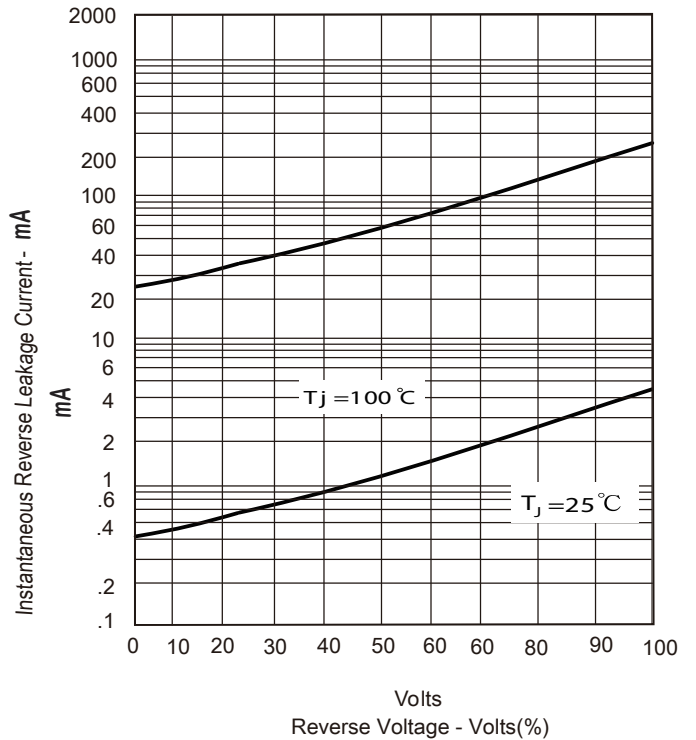


Figure.3-Peak Forward Surge Current

