



LOW VF SCHOTTKY DIODE MODULE TYPE

Features

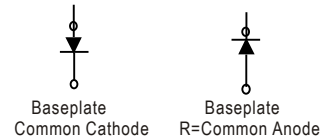
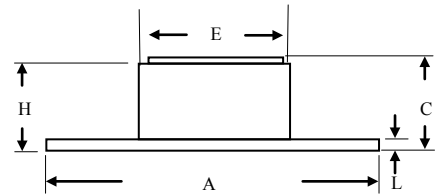
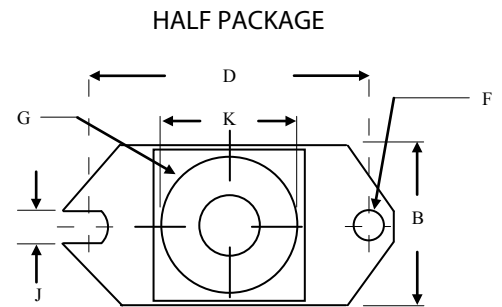
High Surge Capability

300 Amp Rectifier
30 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 |
|---------------|--|---------------------|-----------------------------|
| MBRH30030(R)L | 30V | 21V | 30V |
| | | | |
| | | | |
| | | | |



Electrical Characteristics @ 25°C Unless Otherwise Specified

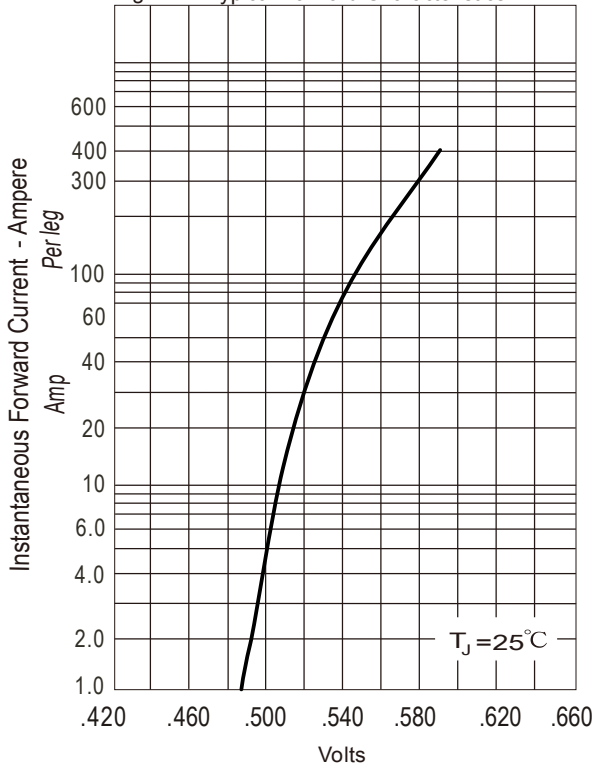
| | | | |
|--|-----------------|----------------|--|
| Average Forward Current | $I_{F(AV)}$ | 300A | $T_C=100^\circ C$ |
| Peak Forward Surge Current | I_{FSM} | 4000A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | V_F | 0.58V | $I_{FM}=300 A; T_J=25^\circ C$ |
| Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage | I_R | 3 mA 250 mA | $T_J= 25^\circ C$ $T_J = 100^\circ C$ |
| Maximum Thermal Resistance Junction To Case | $R_{\theta jc}$ | 0.28°C/W | |

NOTE :
(1) Pulse Test: Pulse Width 300 usec, Duty Cycle < 2%

| DIM | Inches | | Millimeters | |
|-----|------------|-------|-------------|-------|
| | Min | Max | Min | Max |
| A | 1.515 | 1.560 | 38.48 | 39.62 |
| B | 0.725 | 0.775 | 18.42 | 19.69 |
| C | 0.595 | 0.625 | 15.11 | 15.88 |
| D | 1.182 | 1.192 | 30.02 | 30.28 |
| E | 0.736 | 0.744 | 18.70 | 18.90 |
| F | 0.152 | 0.160 | 3.86 | 4.061 |
| G | 1/4-20 UNC | | | |
| H | 0.540 | 0.580 | 13.72 | 14.73 |
| J | 0.156 | 0.160 | 3.96 | 4.06 |
| K | 0.480 | 0.492 | 12.20 | 12.50 |
| L | 0.120 | 0.130 | 3.05 | 3.30 |

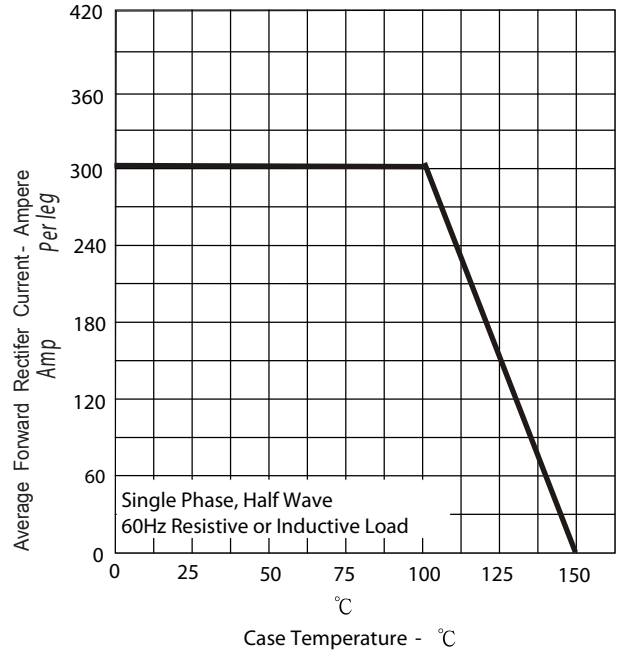


Figure .1-Typical Forward Characteristics



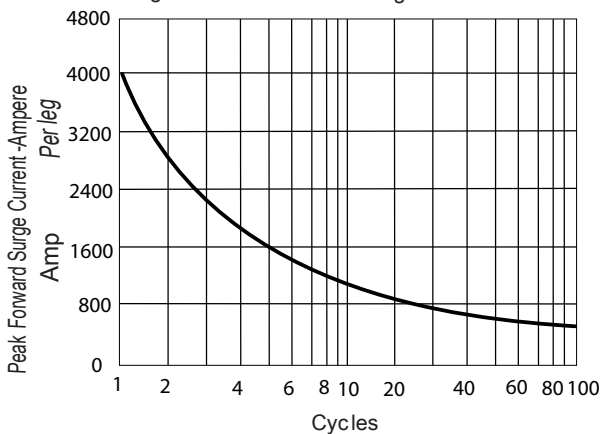
Instantaneous Forward Voltage - Volts

Figure .2- Forward Derating Curve



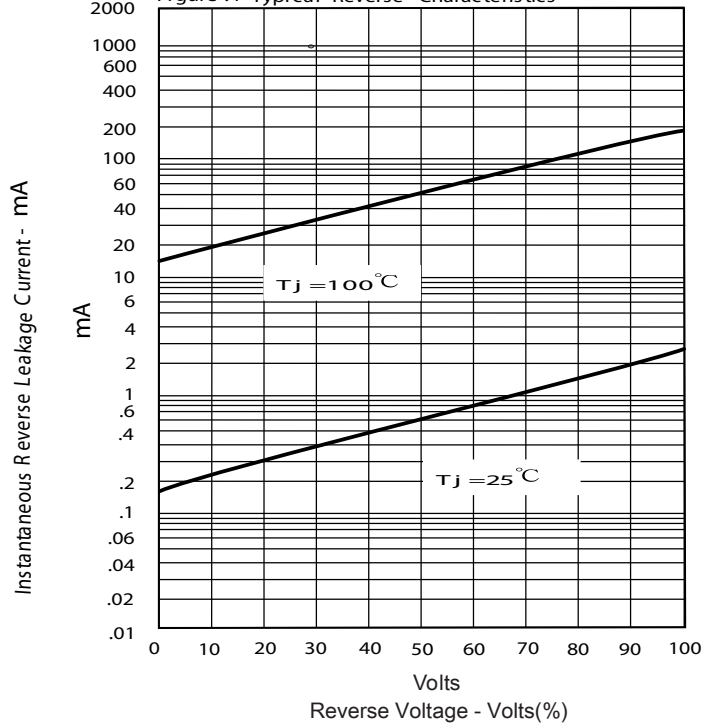
Case Temperature - $^\circ\text{C}$

Figure.3-Peak Forward Surge Current



Number Of Cycles At 60Hz - Cycles

Figure .4- Typical Reverse Characteristics



Reverse Voltage - Volts(%)



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