



**SCHOTTKY DIODE MODULE TYPES 600A**

**Features**

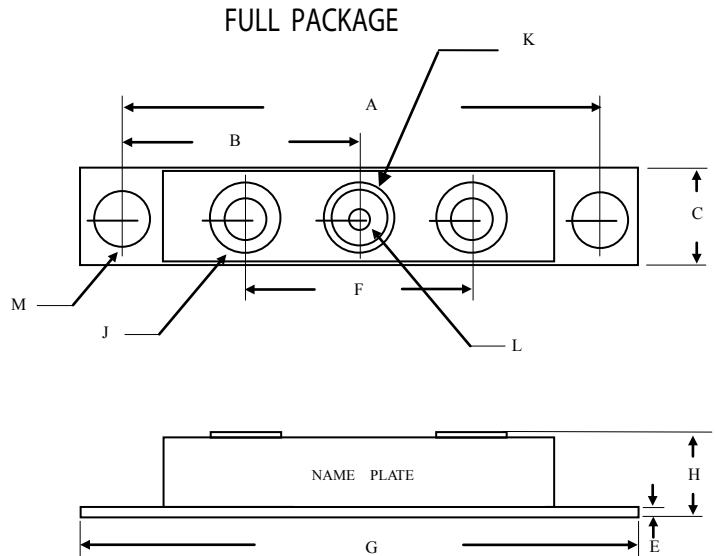
High Surge Capability  
Types Up to 200V  $V_{RRM}$

**600 Amp Rectifier  
150-200 Volts**

**Maximum Ratings**

Operating Temperature:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$   
Storage Temperature:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRF600150(R)	150V	106V	150V
MBRF600200(R)	200V	141V	200V



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

Average Forward Current (Per pkg)	$I_{F(AV)}$	600A	$TC=125^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	$I_{FSM}$	4000A	8.3ms, half sine
Maximum Instantaneous Forward Voltage (Per leg) 150V 200V	$V_F$	0.88V 0.92V	$I_{FM}=300\text{ A}; T_J=25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	$I_R$	1mA 10mA 50mA	$T_J=25^{\circ}\text{C}$ $T_J=100^{\circ}\text{C}$ $T_J=150^{\circ}\text{C}$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.28°C/W	

DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	3.144	NOM	79.85	NOM
B	1.565	1.585	39.75	40.26
C	0.700	0.800	17.78	20.32
E	0.119	0.14	3.02	3.50
F	1.358	REF.	34.50	REF.
G	3.55	3.65	90.17	92.71
H	0.604	0.65	15.35	16.51
J	1/4-20 UNC FULL			
K	0.380	0.410	9.65	10.41
L	0.185	0.195	4.70	4.95
M	0.275	0.295	6.99	7.49

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



Figure .1- Typical Forward Characteristics

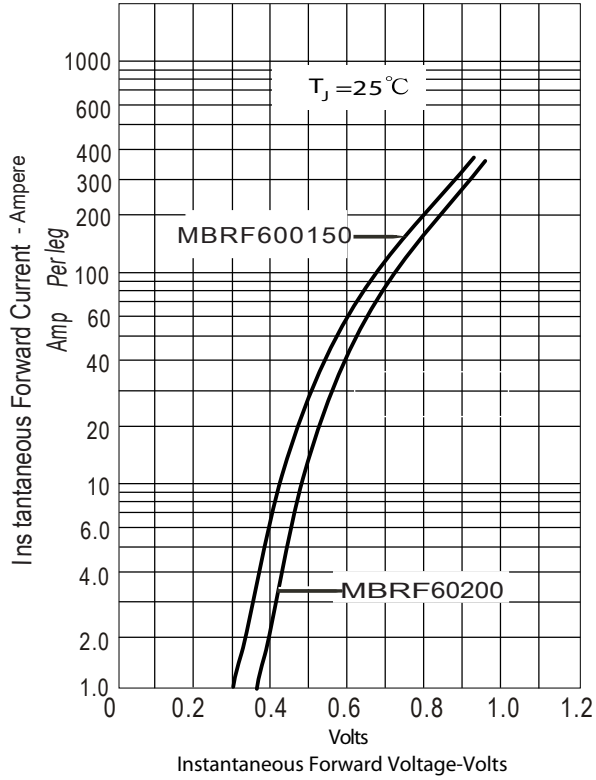


Figure .2- Forward Derating Curve

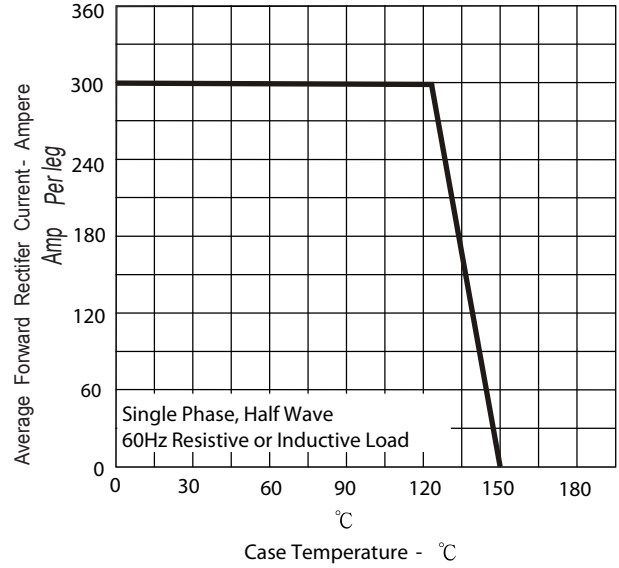


Figure .4- Typical Reverse Characteristics

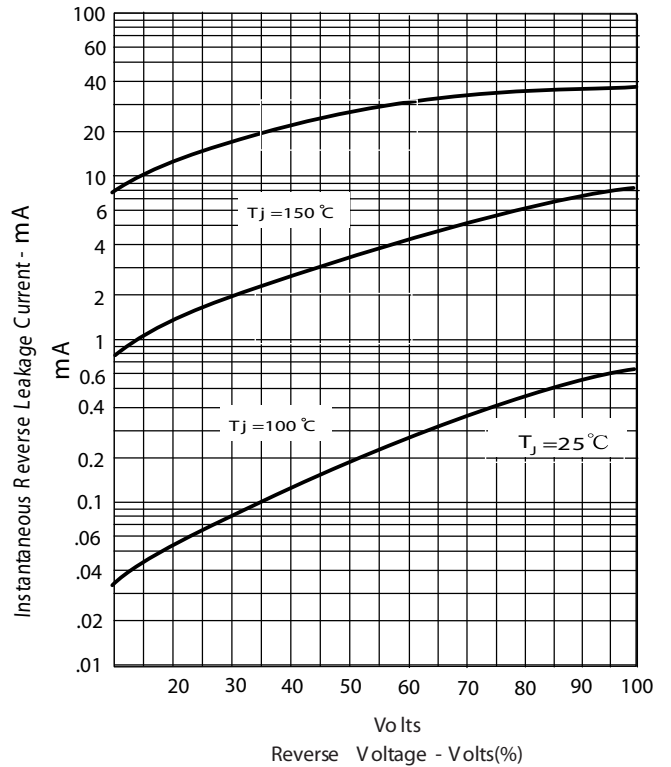


Figure.3-Peak Forward Surge Current

