



**SCHOTTKY DIODE MODULE TYPES 120A**

**Features**

High Surge Capability  
Types Up to 100V  $V_{RRM}$

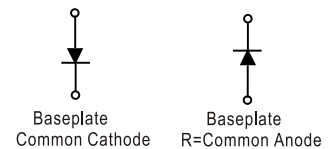
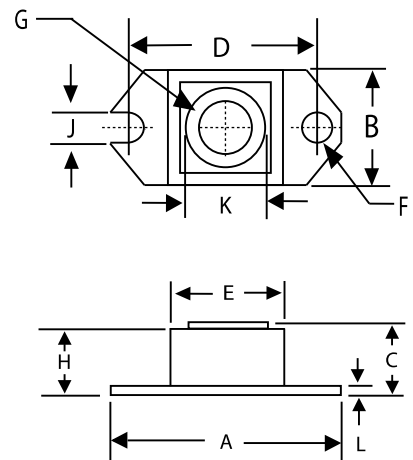
**120 Amp Rectifier  
20-100 Volts**

HALF PACK ( D-67 )

**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
MBRH12020(R)	20V	14V	20V
MBRH12030(R)	30V	21V	30V
MBRH12035(R)	35V	25V	35V
MBRH12040(R)	40V	28V	40V
MBRH12045(R)	45V	32V	45V
MBRH12060(R)	60V	42V	60V
MBRH12080(R)	80V	57V	80V
MBRH120100(R)	100V	70V	100V



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

Average Forward Current (Per pkg)	$I_{F(AV)}$	120A	$TC=125^{\circ}\text{C}$
Peak Forward Surge Current	$I_{FSM}$	2000A	8.3ms, half sine
Maximum Instantaneous Forward Voltage 20V~45V 50V~60V 80V~100V	$V_F$	0.70V 0.75V 0.84V	$I_{FM}=120\text{ A}; T_J=25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage NOTE (1)	$I_R$	1mA 10mA 30mA	$T_J = 25^{\circ}\text{C}$ $T_J = 100^{\circ}\text{C}$ $T_J = 150^{\circ}\text{C}$
Maximum Thermal Resistance Junction To Case	$R_{\theta jc}$	0.48°C/W	

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	1.515	1.560	38.48	39.62	
B	.725	.775	18.42	19.69	
C	.595	.625	15.11	15.88	
D	1.182	1.192	30.02	30.28	
E	.736	.744	18.70	18.90	
F	.152	.160	3.86	4.061	Ø
G	1/4- 20 UNC				
H	.540	.580	13.72	14.73	
J	.156	.160	3.96	4.06	
K	.480	.492	12.20	12.50	Ø
L	.120	.130	3.05	3.30	

NOTE :

(1) Pulse Test: Pulse Width 300  $\mu$  sec, Duty < 2%



Figure .1- Typical Forward Characteristics

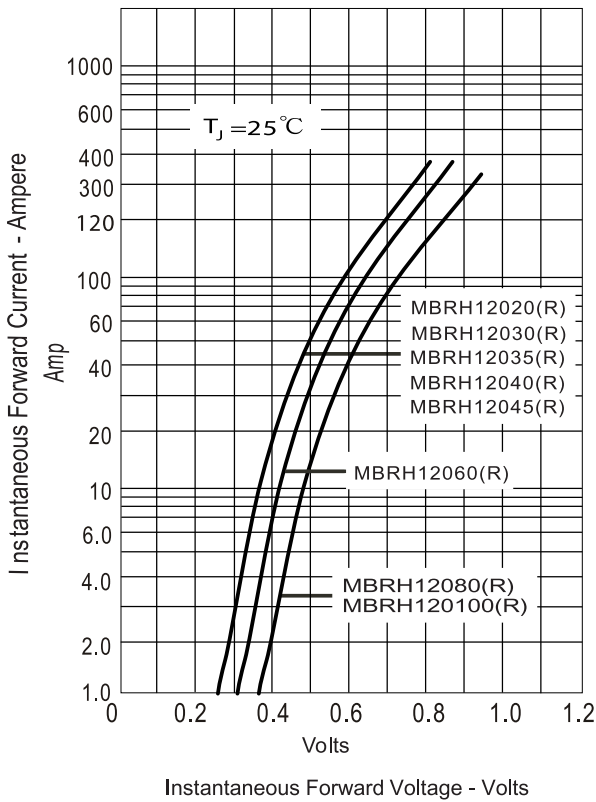


Figure .2- Forward Derating Curve

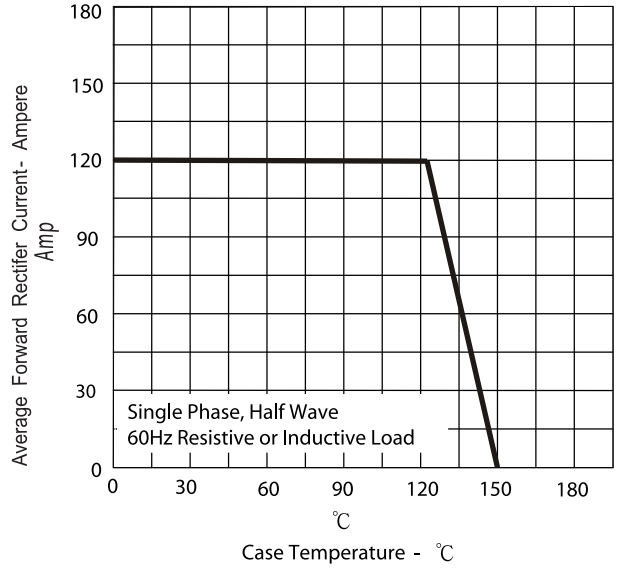


Figure .4- Typical Reverse Characteristics

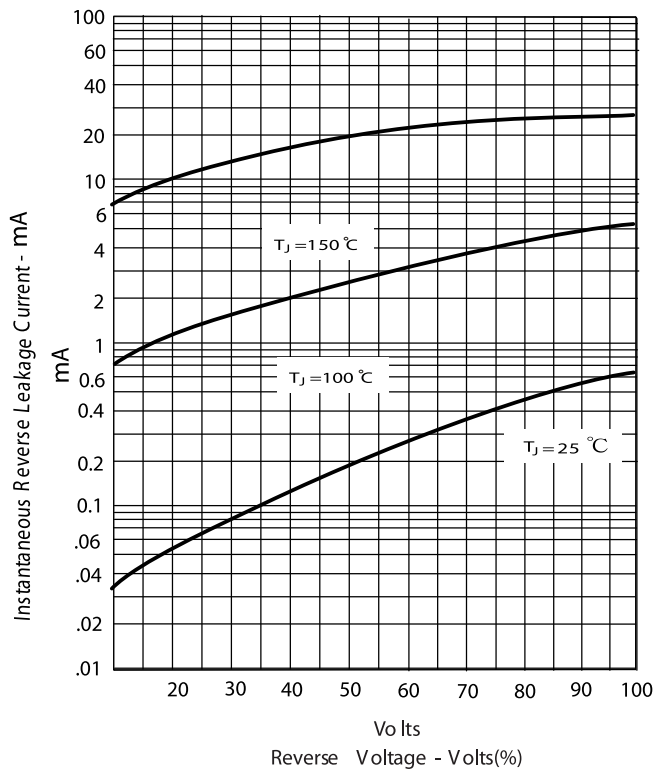


Figure.3-Peak Forward Surge Current

