



**SCHOTTKY DIODE MODULE TYPES  
800A / 20-100V**

**Features**

- High Surge Capability
- Types Up to 100V  $V_{RRM}$
- Isolation Type Package
- Electrically Isolation Baseplate

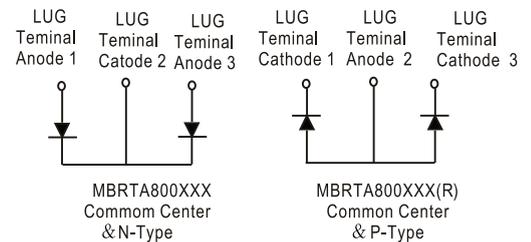
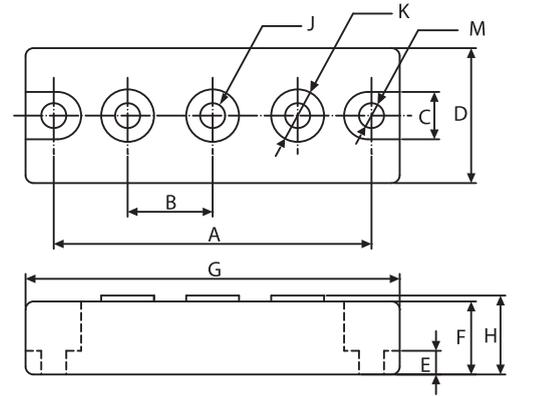
**Maximum Ratings**

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

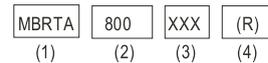
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRTA80020(R)	20V	14V	20V
MBRTA80030(R)	30V	21V	30V
MBRTA80035(R)	35V	25V	35V
MBRTA80040(R)	40V	28V	40V
MBRTA80045(R)	45V	32V	45V
MBRTA80060(R)	60V	42V	60V
MBRTA80080(R)	80V	56V	80V
MBRTA800100(R)	100V	70V	100V

**800Amp Rectifier  
20-100 Volts**

**HEAVY THREE TOWER**



Ordering code



- (1) MBRTA for Schottky diode modules & Isolation
- (2) Maximum average current, Ampere
- (3) Voltage code,  $V_{RRM}$

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

Average Forward Current (Per pkg)	$I_{F(AV)}$	800A	$T_c = 100^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	$I_{FSM}$	6000A	8.3ms, half sine
Maximum Instantaneous Forward Voltage (Per leg) 20V~45V 50V~60V 80V~100V	$V_F$	0.72V 0.78V 0.84V	$I_{FM} = 400A ; T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg) NOTE (1)	$I_R$	1 mA 10 mA 50 mA	$T_J = 25^{\circ}\text{C}$ $T_J = 100^{\circ}\text{C}$ $T_J = 150^{\circ}\text{C}$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.25°C/W	

NOTE :

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

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	3.150	NOM	80.01	NOM	
B	.872	.892	22.15	22.65	
C	.465	.479	11.82	12.18	
D	1.337	1.356	33.95	34.45	
E	.230	.234	5.84	6.16	
F	.725	REF	18.42	REF	
G	3.668	3.768	93.17	95.71	
H	---	.791	---	20.10	
J	1/4-20 UNC FULL				
K	.509	.538	12.92	13.68	$\emptyset$
M	.238	.258	6.05	6.55	$\emptyset$



Figure.1-Typical Forward Characteristics

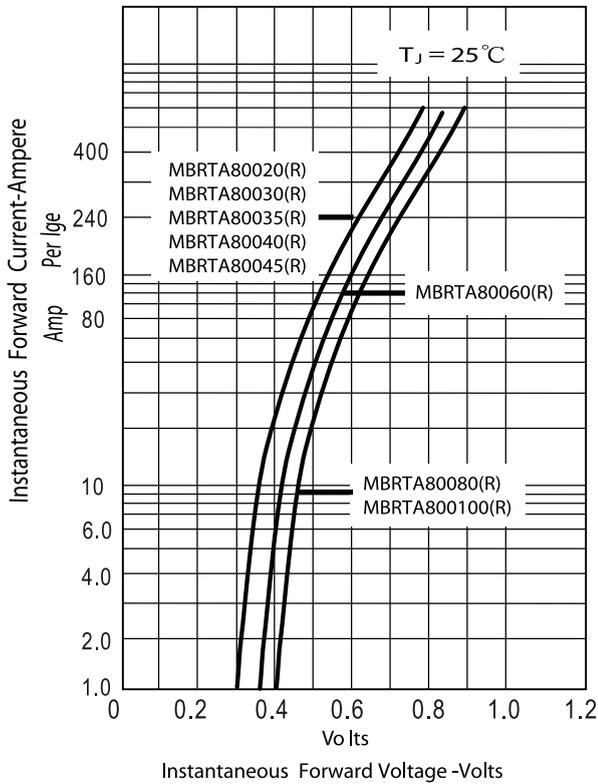


Figure.2-Forward Derating Curve

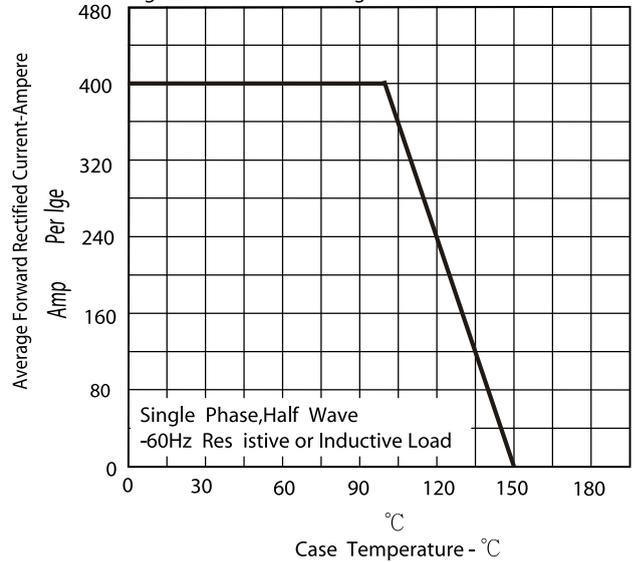


Figure.3-Peak Forward Surge Current

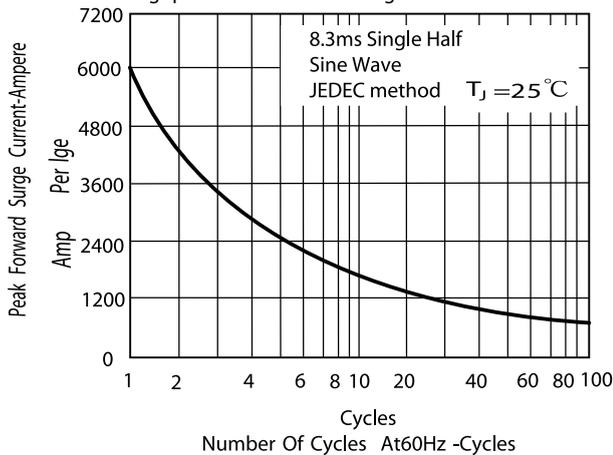
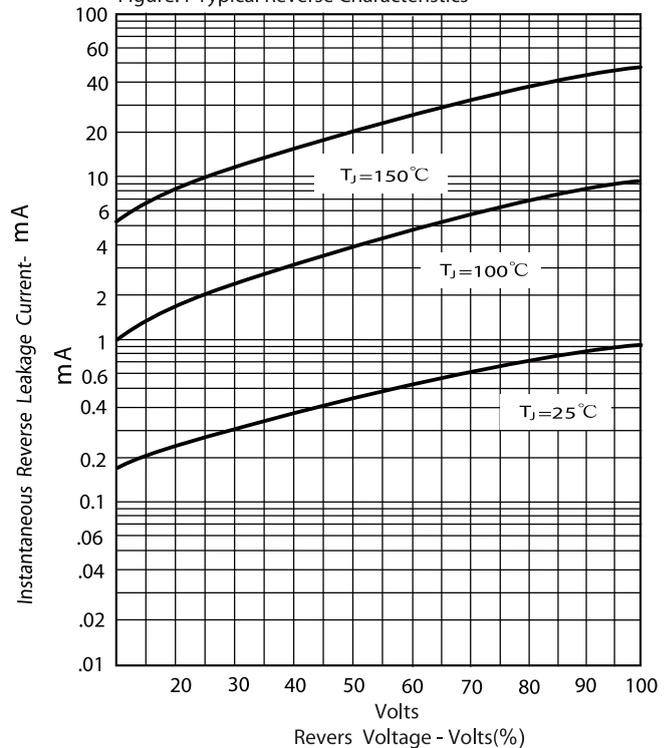


Figure.4-Typical Reverse Characteristics





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