



SCHOTTKY DIODE MODULE TYPES 600A

Features

- High surge Capability
- Types Up to 100V V_{RRM}
- Isolation Type Package
- Electrically Isolation base plate

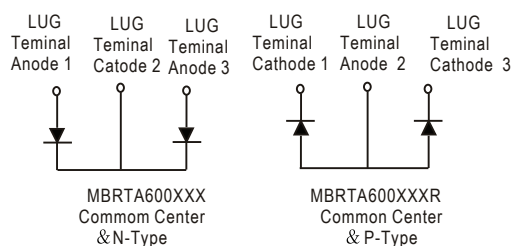
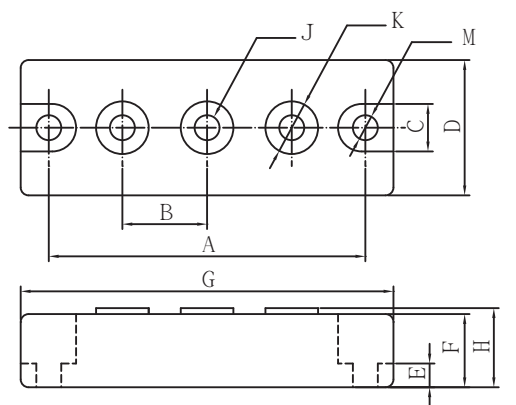
600Amp Rectifier
20-100 Volts

HEAVY THREE TOWER

Maximum Ratings

Operating Temperature: -55°C to+150 °C
Storage Temperature: -55°C to+150 °C

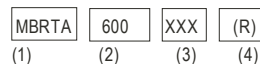
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRTA60020(R)	20V	14V	20V
MBRTA60030(R)	30V	21V	30V
MBRTA60035(R)	35V	25V	35V
MBRTA60040(R)	40V	28V	40V
MBRTA60045(R)	45V	32V	45V
MBRTA60060(R)	60V	42V	60V
MBRTA60080(R)	80V	56V	80V
MBRTA600100(R)	100V	70V	100V



Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	600 A	$T_C = 100^\circ C$
Peak Forward Surge Current (Per leg)	I_{FSM}	4000A	8.3ms , half Sine
Maximum Instantaneous Forward Voltage * (Per leg)	V_F	0.70V 0.75V 0.84V	$I_{FM} = 300A;$ $T_J = 25^\circ C$
Maximum Instantaneous Reverse Current At rated DC Blocking Voltage (Per leg)	I_R	1 mA 10 mA 50 mA	$T_J = 25^\circ C$ $T_J = 100^\circ C$ $T_J = 150^\circ C$
Isolation Voltage	V_{isol}	3000 V	A.C. 1minute
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.28°C/W	

Ordering code



- (1) MBRTA for Schottky diode modules & Isolation
- (2) Maximum average current, Ampere
- (3) Voltage code, V_{RRM}
- (4) With suffix "R" for common anode

DIM	DIMENSIONS				NOTE
	INCHES		MM		
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

*Pulse Test: Pulse Width 300 μ sec, Duty Cycle 2%



Figure .1- Typical Forward Characteristics

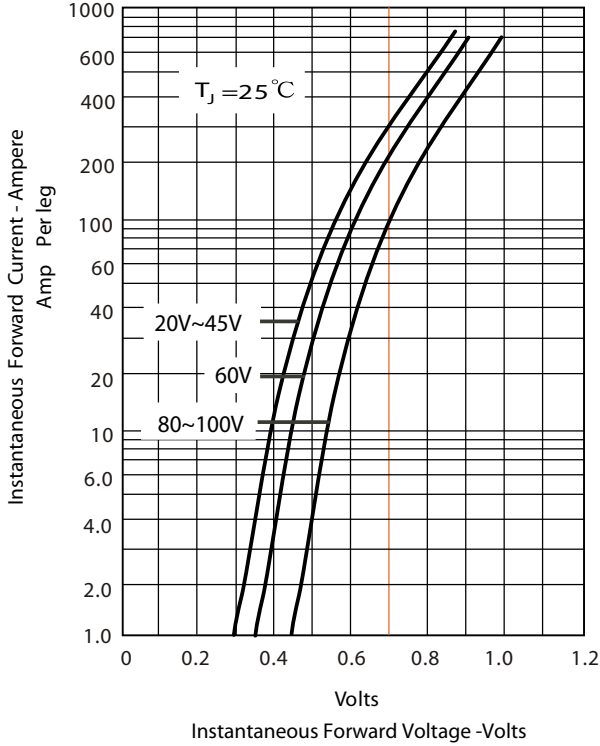
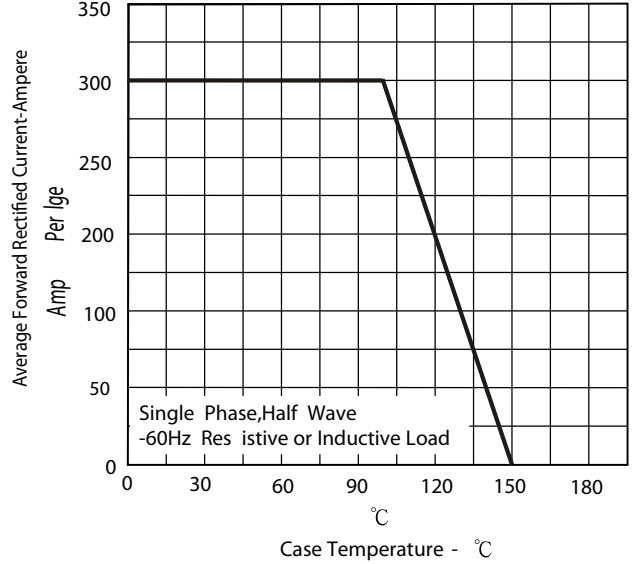


Figure.2-Forward Derating Curve



Figupre.3-Peak Forward Surge Current

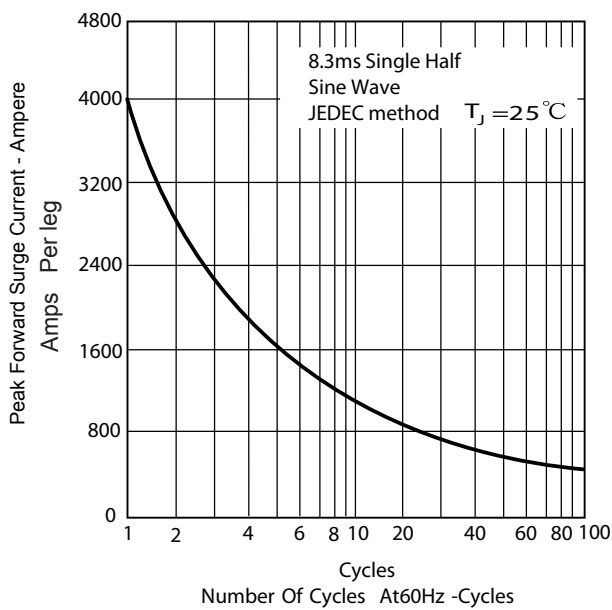


Figure .4- Typical Reverse Characteristics

