



HIGH POWER DIODE MODULE TYPES

Features

- High Surge Capability
- Types Up to 1600V V_{RRM}
- Isolation Type Package
- Electrically Isolation base plate

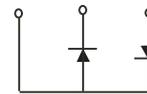
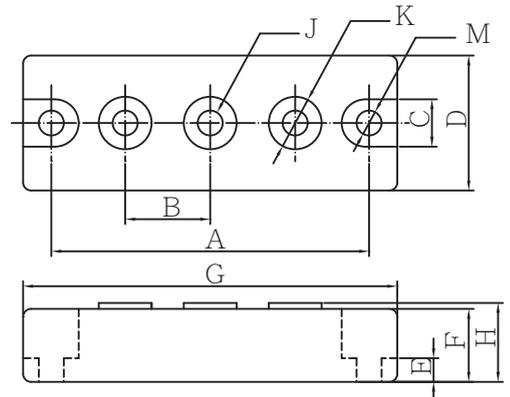
200 Amp Rectifier
600-1600 Volts

Maximum Ratings

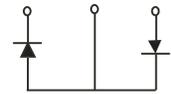
Operating Temperature: -40°C to $+175^{\circ}\text{C}$
Storage Temperature: -40°C to $+175^{\circ}\text{C}$

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
MSRTA20060(A)D	600V	600V
MSRTA20080(A)D	800V	800V
MSRTA200100(A)D	1000V	1000V
MSRTA200120(A)D	1200V	1200V
MSRTA200140(A)D	1400V	1400V
MSRTA200160(A)D	1600V	1600V

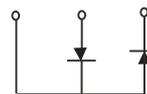
HEAVY THREE TOWER



MSRTA200XXAD



MSRTA200XXD



MSRTA200XXADR

Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current Per leg	$I_{F(AV)}$	200 A	$T_C = 125^{\circ}\text{C}$
Peak Forward Surge Current Per leg	I_{FSM}	3000A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * Per leg	V_F	1.1V	$I_{FM} = 200A;$ $T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Per leg	I_R	10 μA 5mA	$T_J = 25^{\circ}\text{C}$ $T_J = 150^{\circ}\text{C}$
Maximum Thermal Resistance Junction To Case Per leg	$R_{\theta jc}$	0.35 $^{\circ}\text{C}/\text{W}$	
Weight		193g	

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

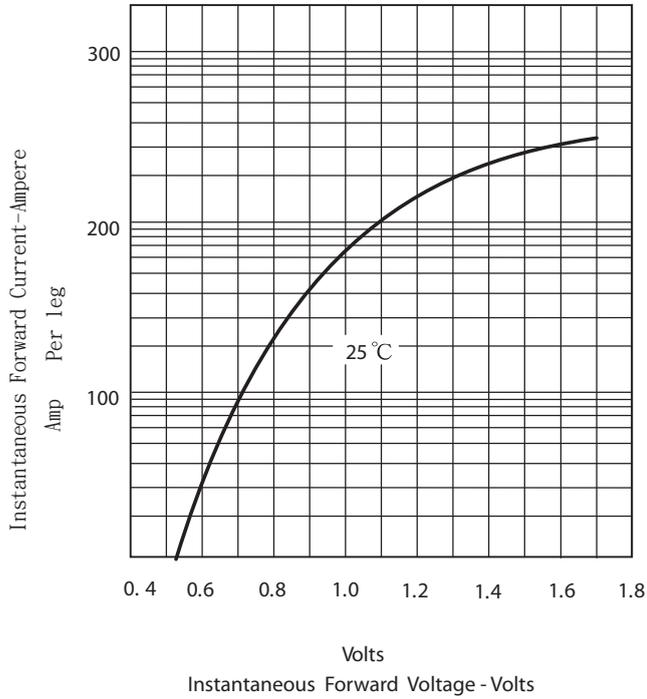


Figure.2 Forward Derating Curve

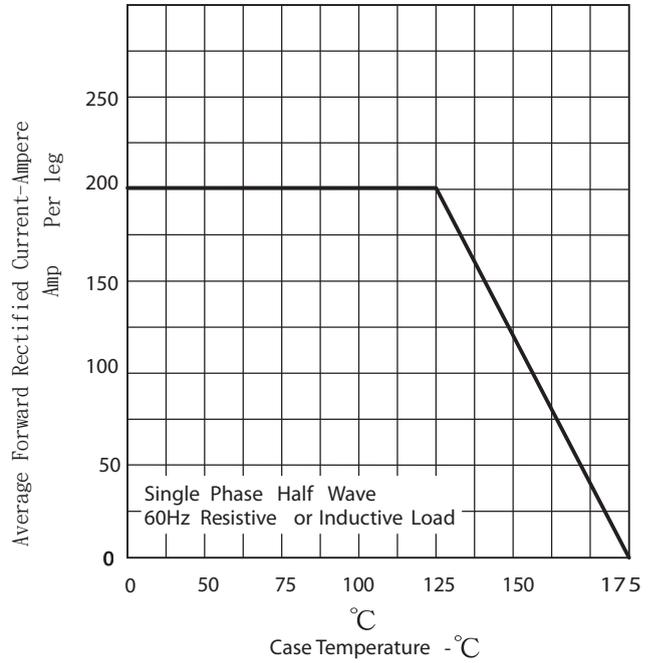


Figure .4 -Typical Reverse Characteristics

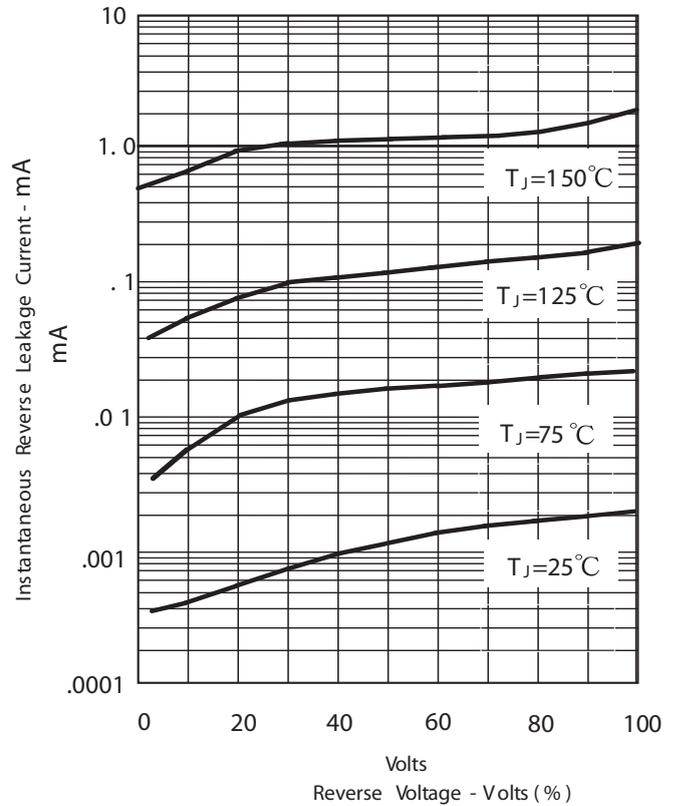
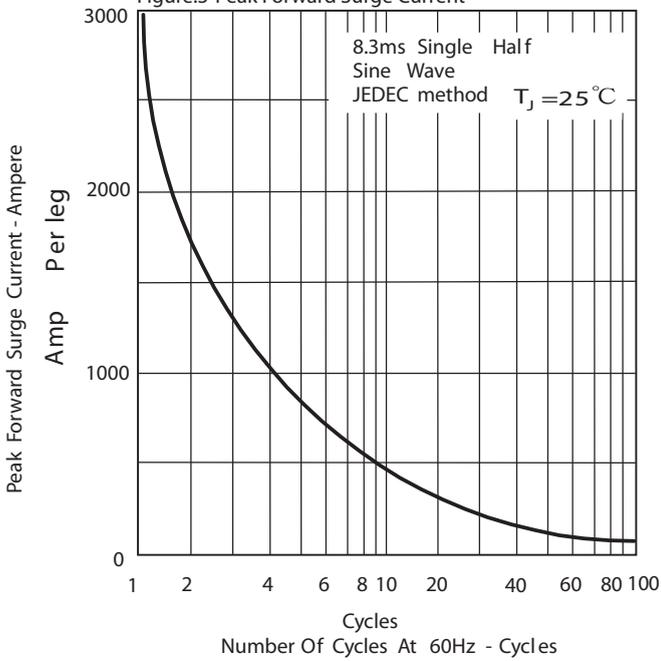


Figure.3-Peak Forward Surge Current





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