



HIGH POWER DIODE MODULE TYPES 400A

Features

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

Maximum Ratings

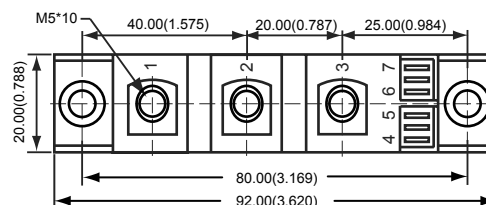
Operating Temperature : -40°C to +175°C

Storage Temperature : -40°C to +175°C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MSRTT40060(A)(R)	600V	420V	600V
MSRTT40080(A)(R)	800V	560V	800V
MSRTT400100(A)(R)	1000V	700V	1000V
MSRTT400120(A)(R)	1200V	840V	1200V
MSRTT400140(A)(R)	1400V	980V	1400V
MSRTT400160(A)(R)	1600V	1120V	1600V

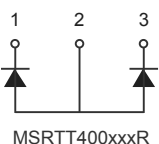
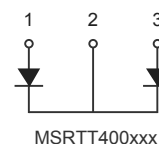
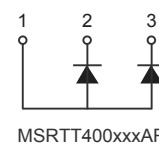
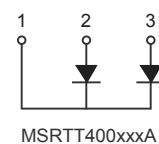
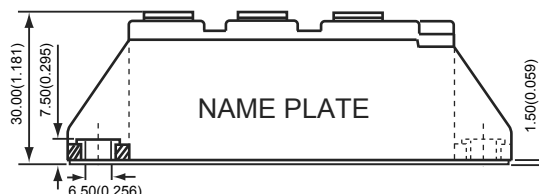


Dimensions in mm (1 mm = 0.0394")



Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	400A	$T_C = 125^\circ C$
Peak Forward Surge Current (Per leg)	I_{FSM}	3000A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * (Per leg)	V_F	1.10V	$I_{FM}=200A; T_J = 25^\circ C$
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per leg)	I_R	10 μA 5mA	$T_J = 25^\circ C$ $T_J = 150^\circ C$
Isolation Voltage	V_{isol}	2500V	A.C. 1minute
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.35°C/W	
Mounting torque		5 ± 0.5Nm 3 ± 0.5Nm	to heatsink to terminals



*Pulse Test: Pulse Width 300 μsec , Duty Cycle 2%

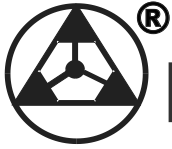


Figure .1- Typical Forward Characteristics

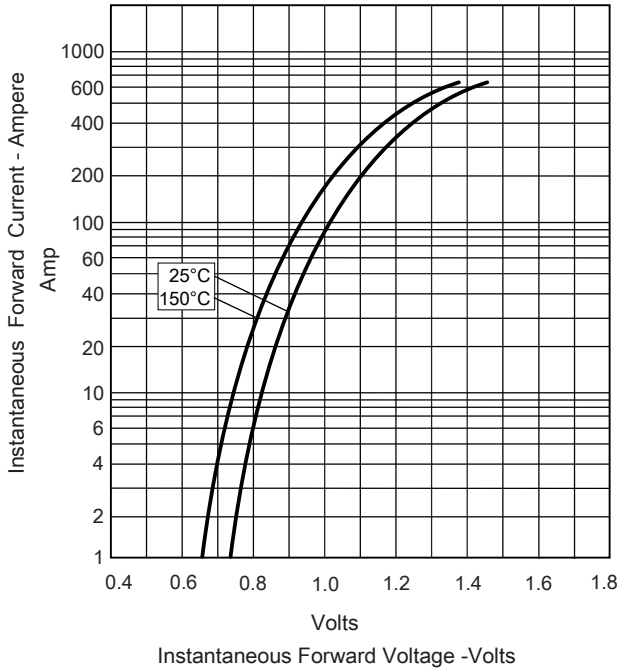


Figure .2-Forward Derating Curve

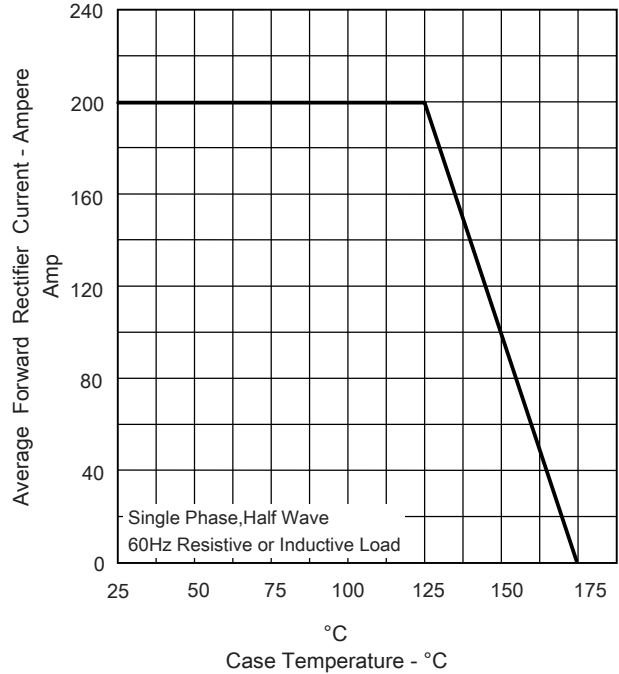


Figure .3-Peak Forward Surge Current

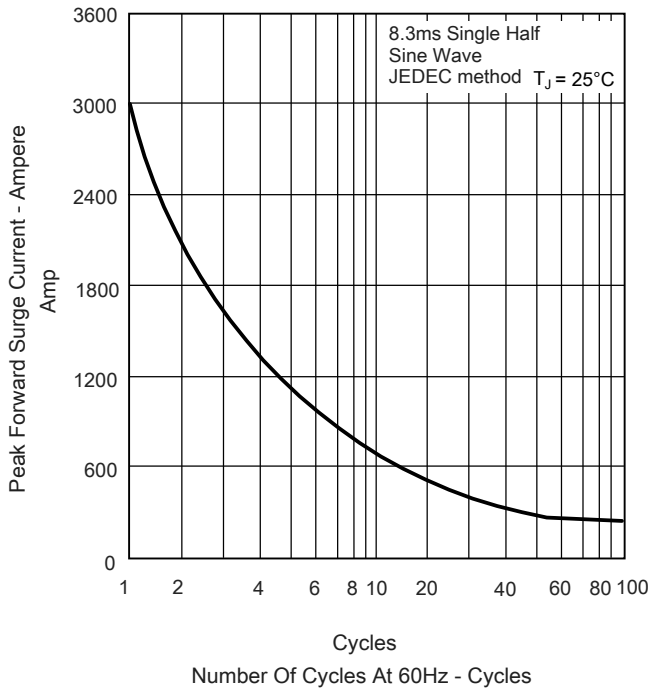


Figure .4-Typical Reverse Characteristics

