MSRTT10060(A)D(R) THRU MSRTT100160(A)D(R)

HIGH POWER DIODE MODULE TYPES 100A

Features

High Surge Capability
Types up to 1600V V_{RRM}
Isolation Type Package
Electrically Isolation Base Plate

Maximum Ratings

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

Storage Temperature : -40°C to +175°C

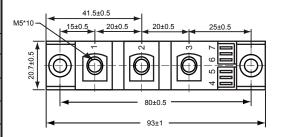
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MSRTT10060(A)D(R)	600V	420V	600V
MSRTT10080(A)D(R)	800V	560V	800V
MSRTT100100(A)D(R)	1000V	700V	1000V
MSRTT100120(A)D(R)	1200V	840V	1200V
MSRTT100140(A)D(R)	1400V	980V	1400V
MSRTT100160(A)D(R)	1600V	1120V	1600V

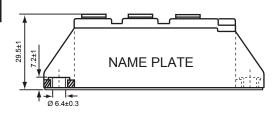
Average Forward Current (Per diode)	lf(AV)	100A	Tc = 140°C
Peak Forward Surge Current (Per diode)	İFSM	2000A	8.3ms , half sine
Maximum (Per diode) Instantaneous Forward Voltage *	VF	1.10V	IFM=100A;Т _J = 25°С
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	lr	10 <i>μ</i> A 5mA	T _J = 25°C T _J = 150°C
Isolation Voltage (between All Terminals and Baseplate)	Visol	2500V	A.C. 1minute
Maximum Thermal Resistance Junction To Case (Per diode)	R ₀ j c	0.45°C/W	
Mounting Torque		5 ± 0.5Nm 3 ± 0.5Nm	to heatsink to terminals

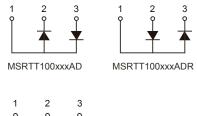
^{*}Pulse Test: Pulse Width 300 μ sec, Duty Cycle < 2%



Dimensions in mm (1 mm = 0.0394")



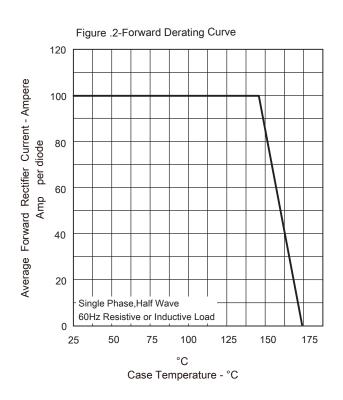


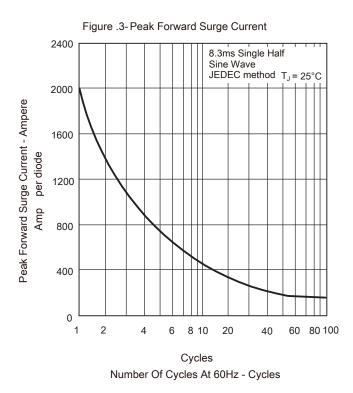


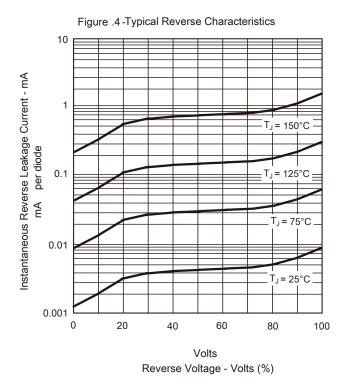


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Figure .1- Typical Forward Characteristics 1000 nstantaneous Forward Current - Ampere 600 400 per diode 200 100 Amp 25°C 40 150°C 6 2 0.4 0.6 0.8 1.2 1.4 1.6 1.8 1.0 Volts Instantaneous Forward Voltage -Volts







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