

MSRTA30040(A)D(R) THRU MSRTA300160(A)D(R)

HIGH POWER DIODE MODULE TYPES 300A / 400-1600V

Features

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

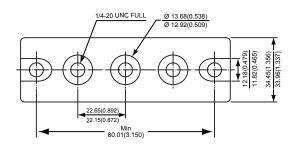
Maximum Ratings

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

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
MSRTA30040(A)D(R)	400V	400V
MSRTA30060(A)D(R)	600V	600V
MSRTA30080(A)D(R)	800V	800V
MSRTA300100(A)D(R)	1000V	1000V
MSRTA300120(A)D(R)	1200V	1200V
MSRTA300160(A)D(R)	1600V	1600V



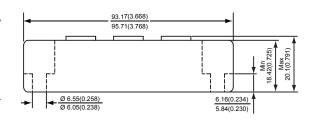
Dimensions in mm (1 mm = 0.0394")

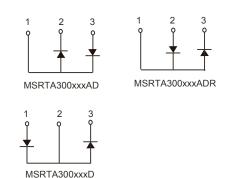


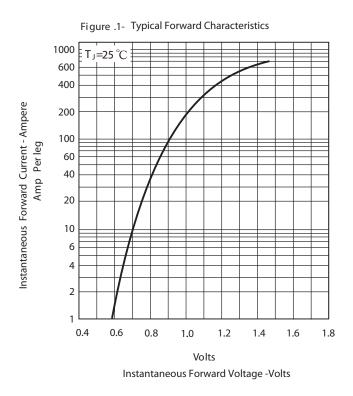
Electrical Characteristics @ 25 $^{\circ}$ C Unless Otherwise Specified

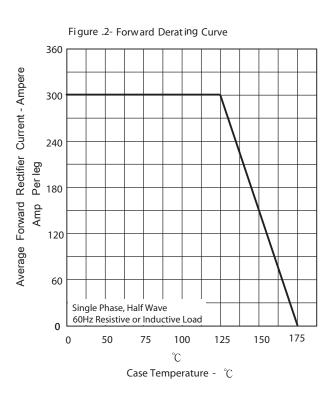
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Average Forward Current (Per leg)	l f(AV)	300A	$T_C = 125^{\circ}C$
Peak Forward Surge Current (Per leg)	I FSM	3800A	8.3ms , half sine
Maximum (Per leg) Instantaneous Forward Voltage *	V _F	1.1 V	I _{FM} = 300A; T _J = 25 °C
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	I _R	20 μ A 10 m A	$T_J = 25 ^{\circ}\text{C}$ $T_J = 150 ^{\circ}\text{C}$
Maximum Thermal Resistance Junction To Case (Per leg)	Røjc	0.28°C/W	
Isolation Voltage	Viso	3000V (3600V)	A.C. 1 minute A.C. 1 seconds
Weight		193g	

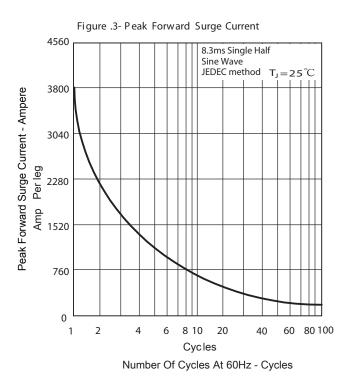
^{*}Pulse Test : Pulse Width 300 μ sec,Duty Cycle 2%

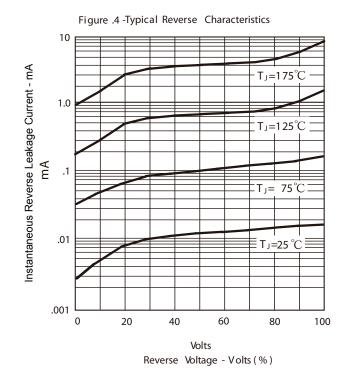














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