DACO SEMICONDUCTOR CO., LTD.

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

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

HEAVY THREE TOWER

Features

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

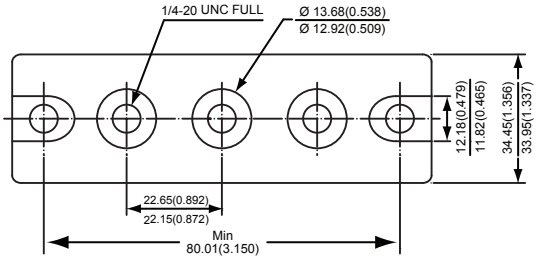
Maximum Ratings

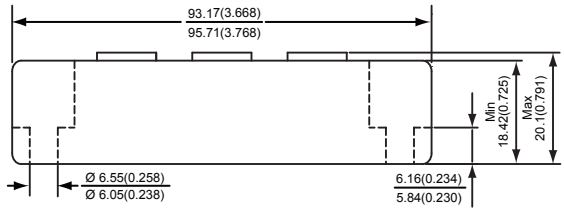
Operating Temperature : -40 ℃ to+175 ℃

Storage Temperature : -40 ℃ to +175 ℃

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")

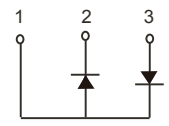




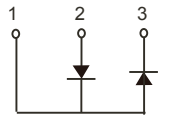
Electrical Characteristics @ 25 ℃ Unless Otherwise Specified

Average Forward Current (Per leg)	$I_{F(AV)}$	300A	T_C = 125℃
Peak Forward Surge Current (Per leg)	I_{FSM}	3800A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * (Per leg)	V_F	1.1 V	I_{FM} = 300A; T_J = 25 ℃
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	I_R	20 μA 10mA	T_J = 25 ℃ T_J = 150 ℃
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.28℃/W	
Isolation Voltage	V_{iso}	3000V (3600V)	A.C. 1 minute A.C. 1 seconds
Weight		193g	

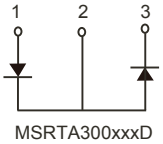
*Pulse Test：Pulse Width 300 μ sec,Duty Cycle 2%



MSRTA300xxxAD



MSRTA300xxxADR



MSRTA300xxxD

Figure .1- Typical Forward Characteristics

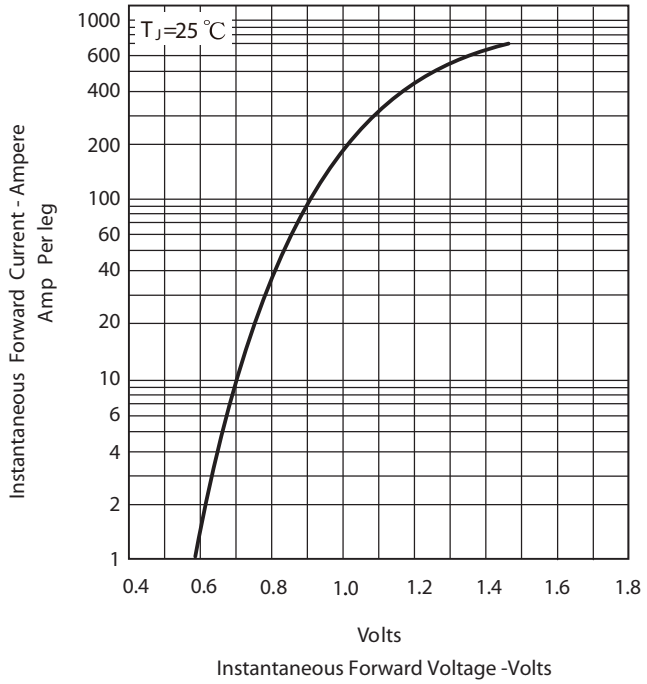


Figure .2- Forward Derating Curve

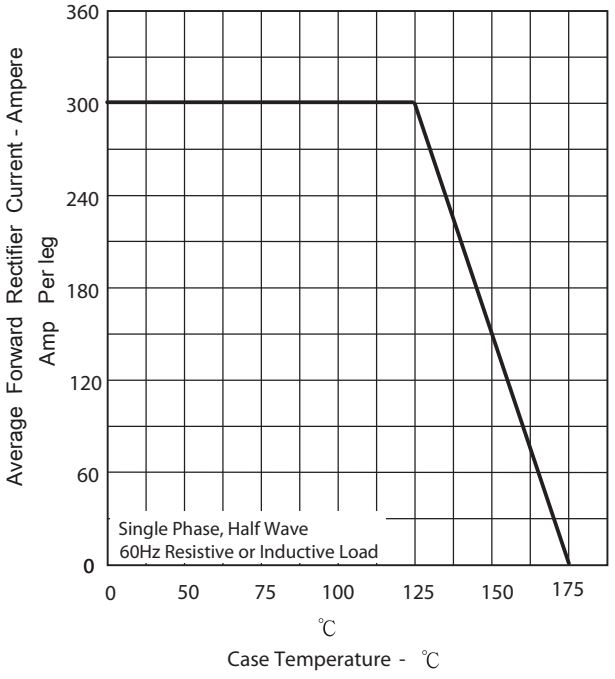


Figure .3- Peak Forward Surge Current

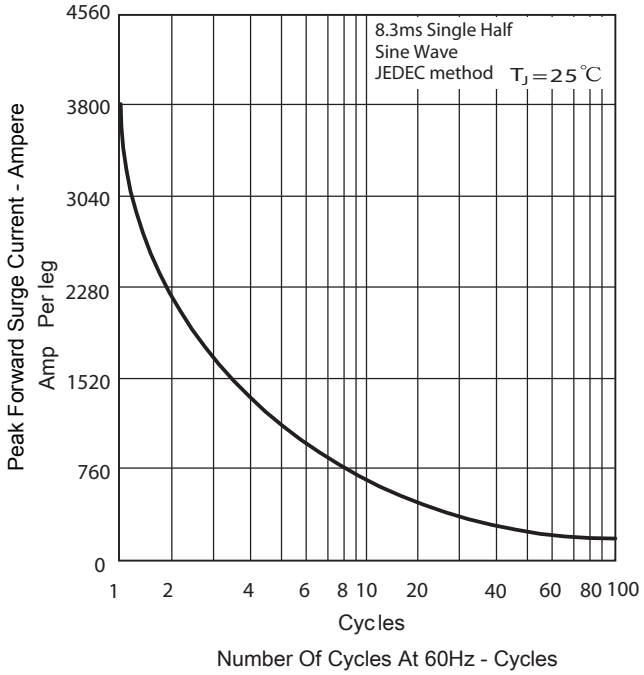
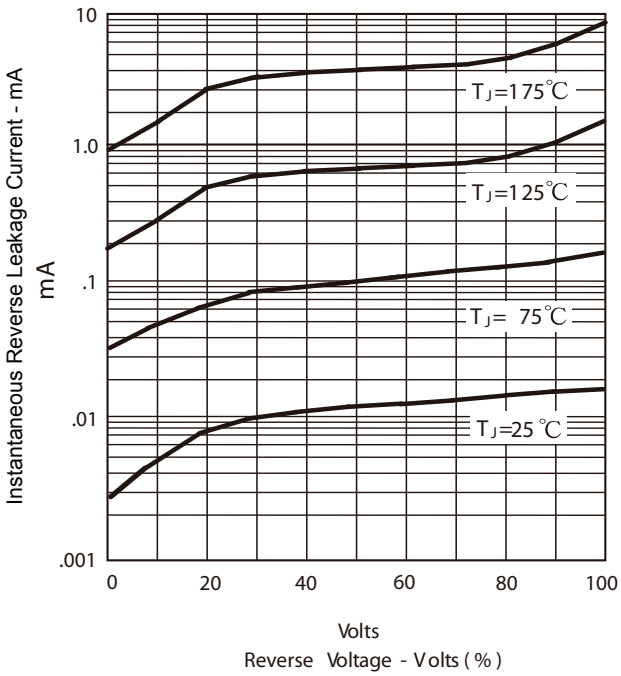


Figure .4 -Typical Reverse Characteristics



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