DACO SEMICONDUCTOR CO., LTD.

MSRKA40080(A)(R)
THRU
MSRKA400160(A)(R)

STANDARD RECOVERY DIODE MODULE TYPES 400A

Features

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

HEAVY THREE TOWER KA



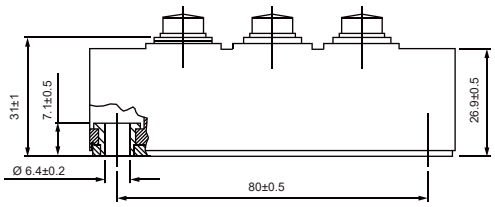
Maximum Ratings

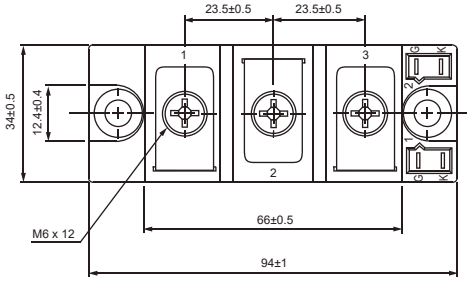
Operating Temperature : -55°C to +175°C

Storage Temperature : -55°C to +175°C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MSRKA40080(A)(R)	800V	560V	800V
MSRKA400100(A)(R)	1000V	700V	1000V
MSRKA400120(A)(R)	1200V	840V	1200V
MSRKA400140(A)(R)	1400V	980V	1400V
MSRKA400160(A)(R)	1600V	1120V	1600V

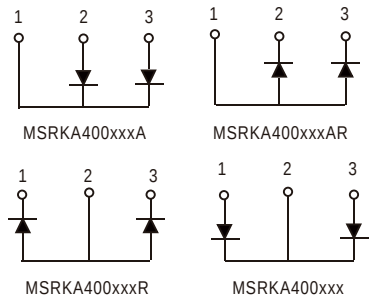
Dimensions in mm (1 mm = 0.0394")





Electrical Characteristics @ 25 ℃ Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	400A	T_C = 100°C
Peak Forward Surge Current (Per diode)	I_{FSM}	5000A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * (Per diode)	V_F	1.05V 1.15V	I_{FM}=200A;T_J = 25°C I_{FM}=300A;T_J = 25°C
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	I_R	10 μA 5mA	T_J = 25°C T_J = 150°C
Isolation Voltage	V_{isol}	3000V	A.C. 1minute
Maximum Thermal Resistance Junction To Case (Per diode)	$R_{\theta jc}$	0.18°C/W	



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

Figure .1- Typical Forward Characteristics

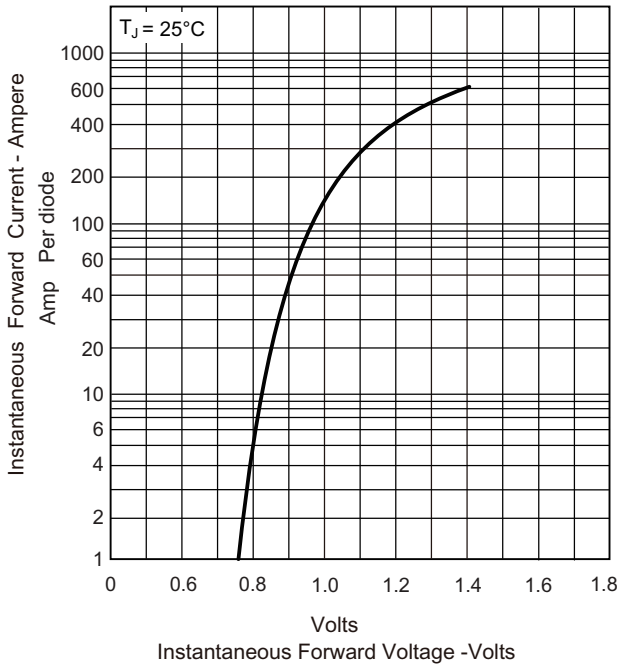


Figure .2-Forward Derating Curve

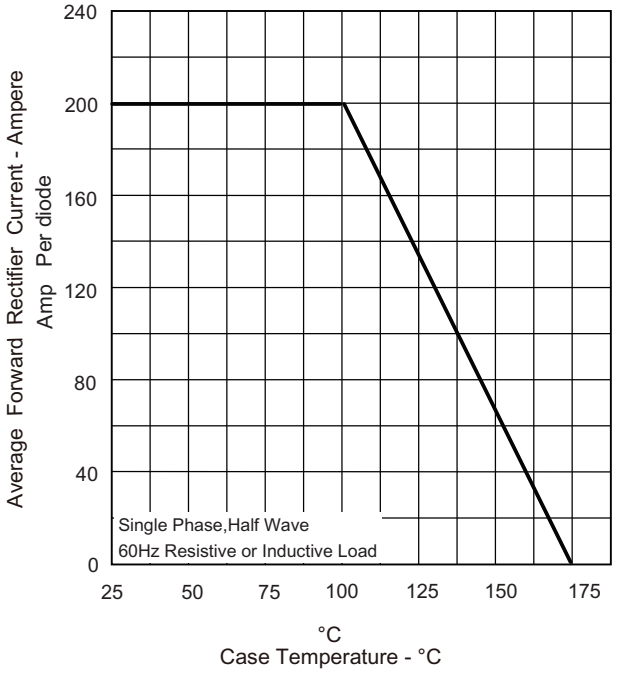


Figure .3- Peak Forward Surge Current

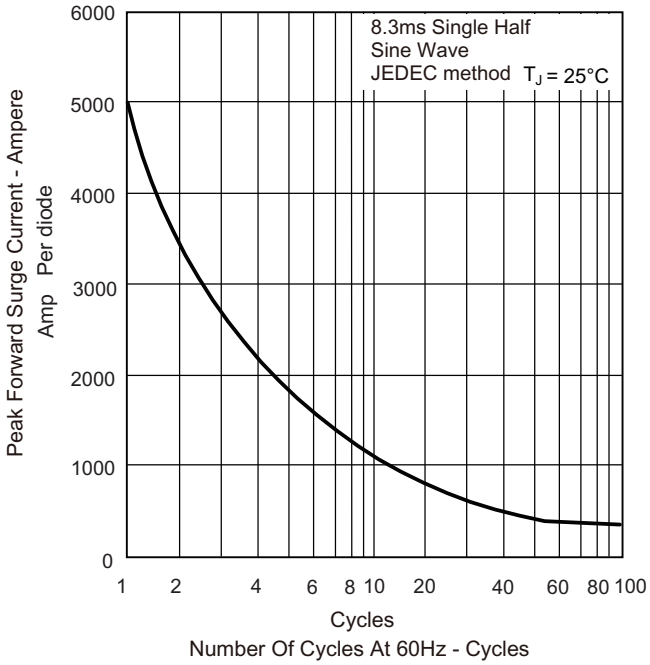
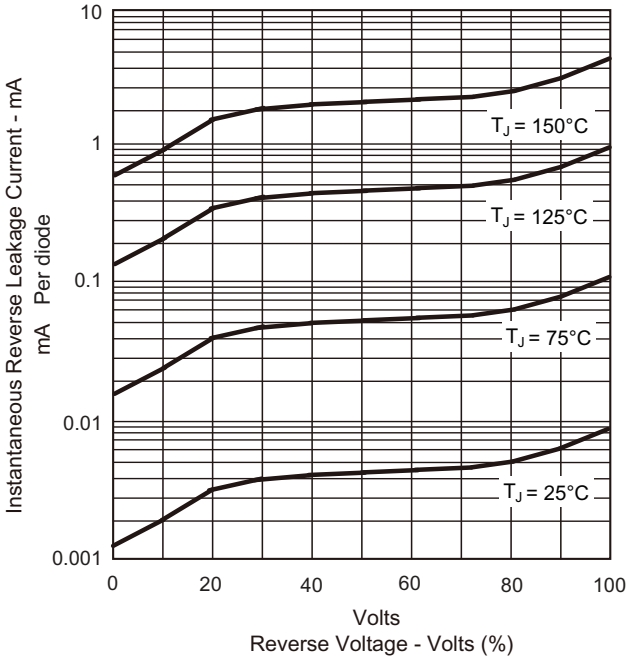


Figure .4 -Typical Reverse Characteristics



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