

STANDARD RECOVERY DIODE MODULE TYPES 160A

Features

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

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
MSRKA16080(A)D(R)	800V	560V	800V
MSRKA160100(A)D(R)	1000V	700V	1000V
MSRKA160120(A)D(R)	1200V	840V	1200V
MSRKA160140(A)D(R)	1400V	980V	1400V
MSRKA160160(A)D(R)	1600V	1120V	1600V

Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current (Per diode)	$I_{F(AV)}$	160A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current (Per diode)	I_{FSM}	6285A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * (Per diode)	V_F	1.1V	$I_{FM}=160\text{A};$ $T_J = 25^\circ\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	I_R	25 μA 5mA	$T_J = 25^\circ\text{C}$ $T_J = 150^\circ\text{C}$
Isolation Voltage	V_{isol}	3000V	A.C. 1minute
Maximum Thermal Resistance Junction To Case (Per diode)	$R_{\theta jc}$	0.23°C/W	

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

HEAVY THREE TOWER KA



Dimensions in mm (1 mm = 0.0394")

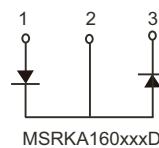
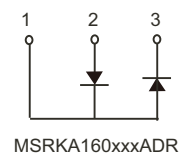
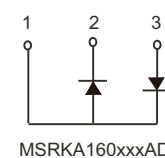
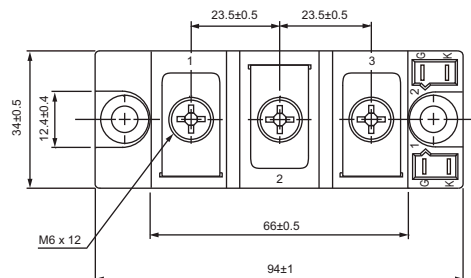
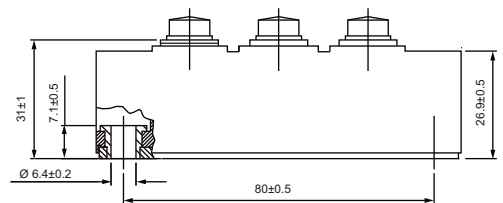




Figure .1- Typical Forward Characteristics

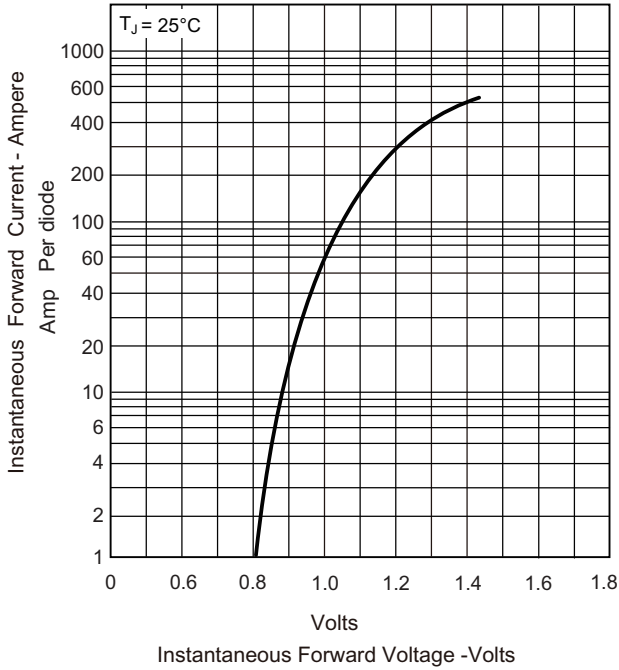


Figure .2-Forward Derating Curve

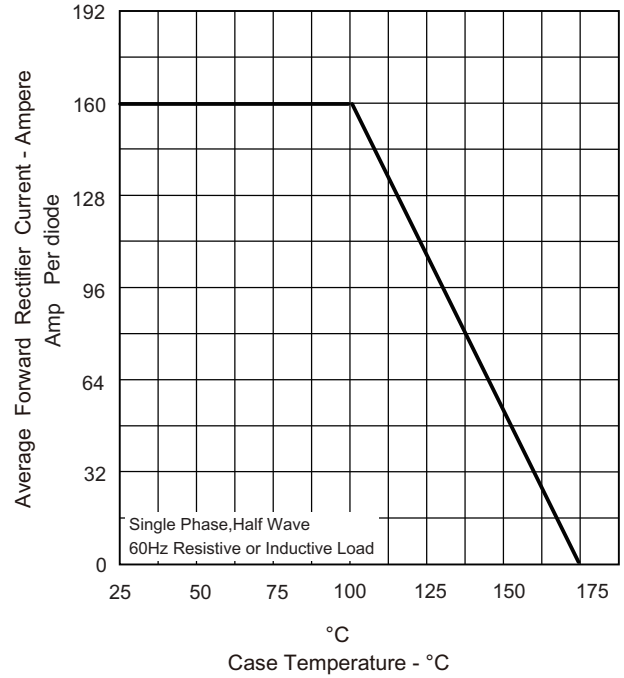


Figure .3-Peak Forward Surge Current

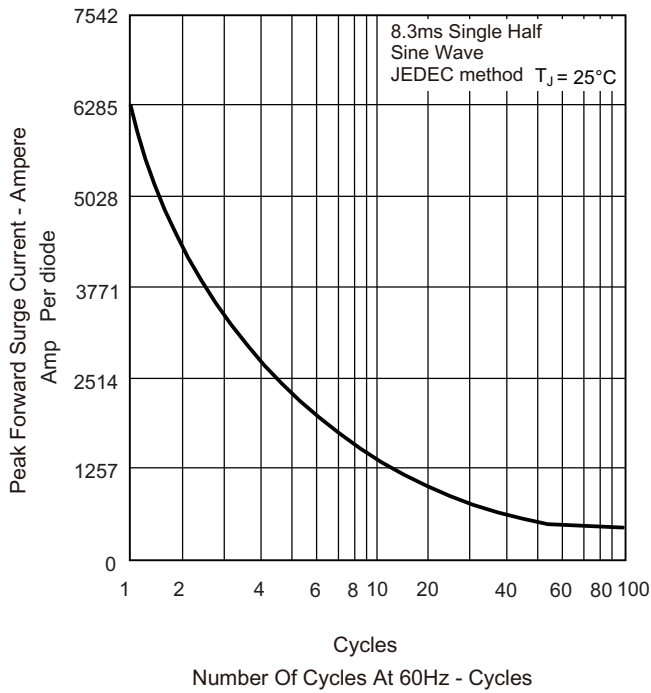
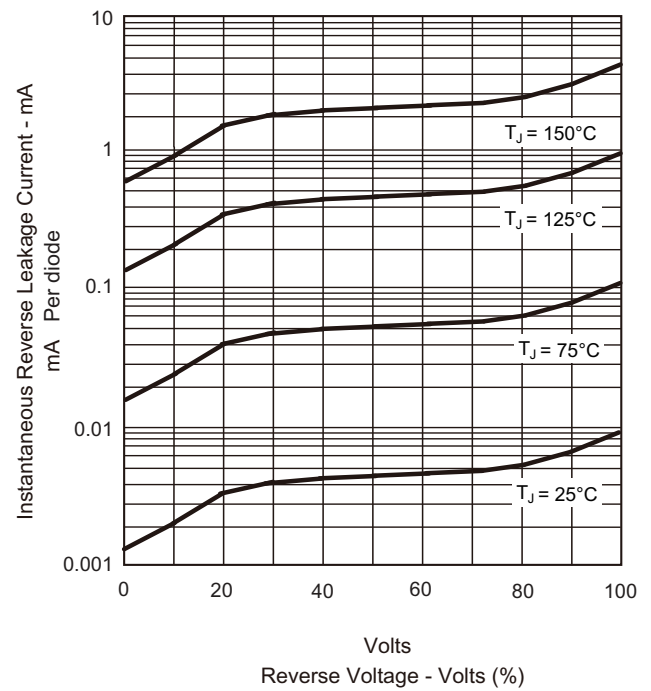


Figure .4-Typical Reverse Characteristics





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