



STANDARD RECOVERY DIODE MODULE TYPE 800A

Features

- High Surge Capability
- Type 800V V_{RRM}
- Isolation Type Package
- Electrically Isolation Base Plate

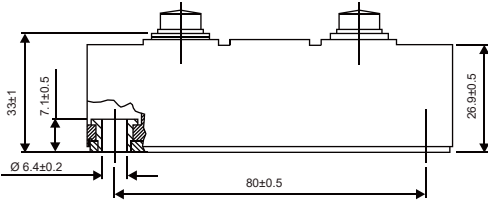


Maximum Ratings

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

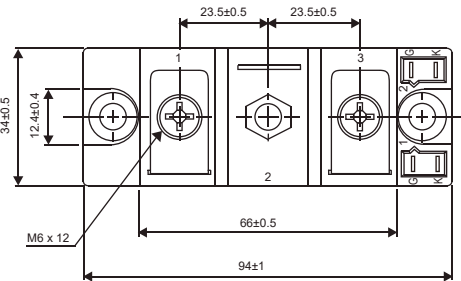
Dimensions in mm (1 mm = 0.0394")

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MSRIDK80080	800V	560V	800V



Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	800A	$T_C = 125^\circ C$
Peak Forward Surge Current	I_{FSM}	18000A	8.3ms , half sine
Maximum Instantaneous Forward Voltage *	V_F	1.0V	$I_{FM} = 800A;$ $T_J = 25^\circ C$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage*	I_R	30 μA 10 mA	$T_J = 25^\circ C$ $T_J = 150^\circ C$
Isolation Voltage (between All Terminals and Baseplate)	V_{isol}	3000V	A.C. 1minute
Maximum Thermal Resistance Junction To Case	$R_{\theta jc}$	0.035°C/W	



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



Figure .1- Typical Forward Characteristics

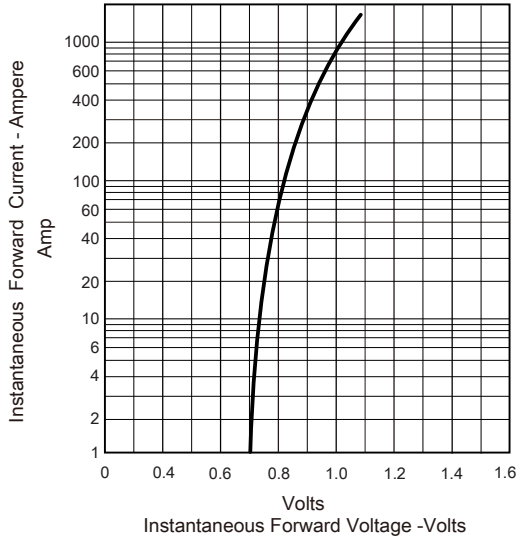


Figure .2-Forward Derating Curve

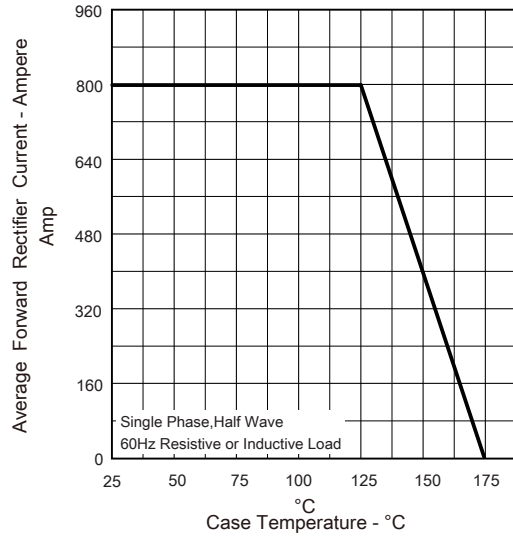


Figure .3- Peak Forward Surge Current

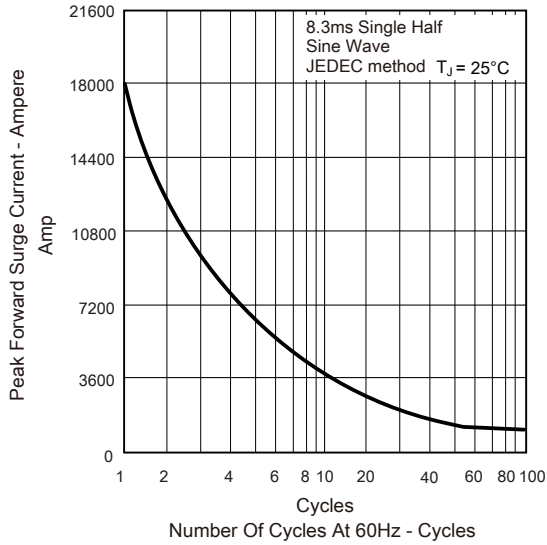


Figure .4 -Typical Reverse Characteristics

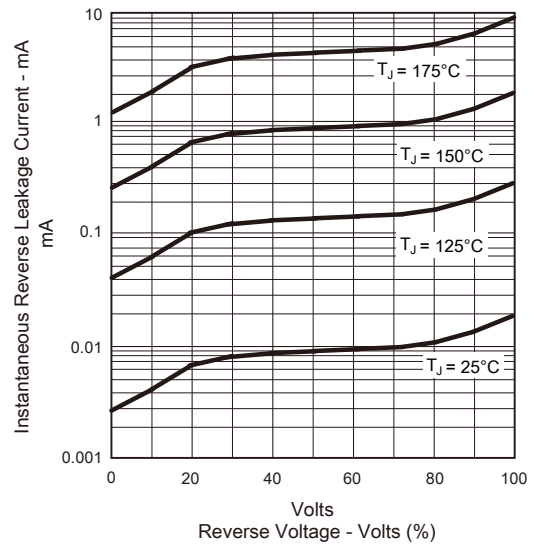
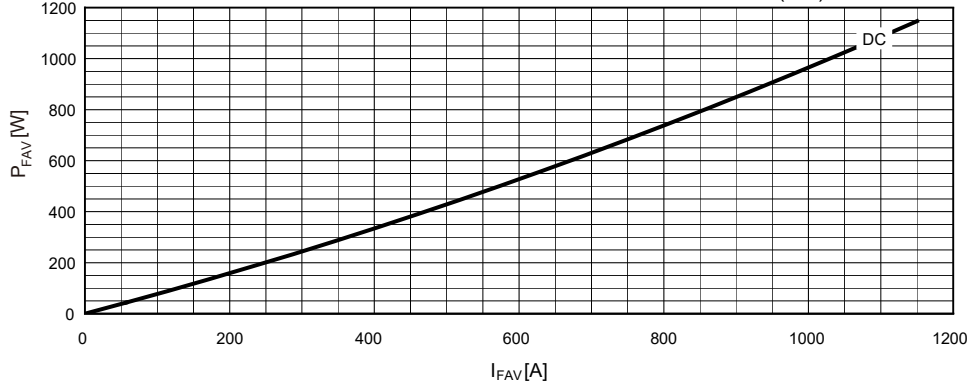


Figure .5- Current conduction angle On-state power loss per arm $P_{FAV} = f(I_{FAV})$





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