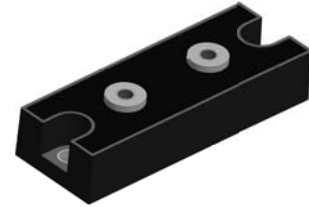


STANDARD RECOVERY DIODE MODULE TYPE 400A
Features

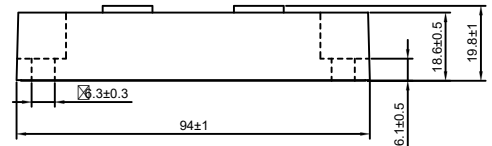
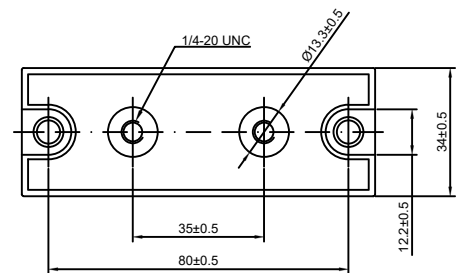
High Surge Capability
 Type 800V V_{RRM}
 Isolation Type Package
 Electrically Isolation Base Plate

HEAVY DIODE

Maximum Ratings

Operating Temperature : -55°C to $+175^{\circ}\text{C}$
 Storage Temperature : -55°C to $+175^{\circ}\text{C}$

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MSRIDA40080A	800V	560V	800V

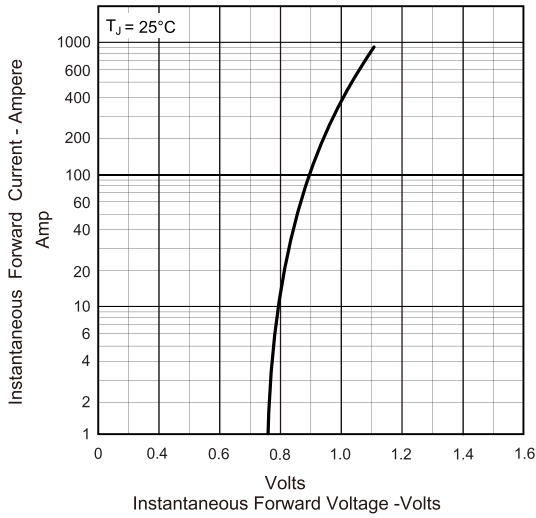
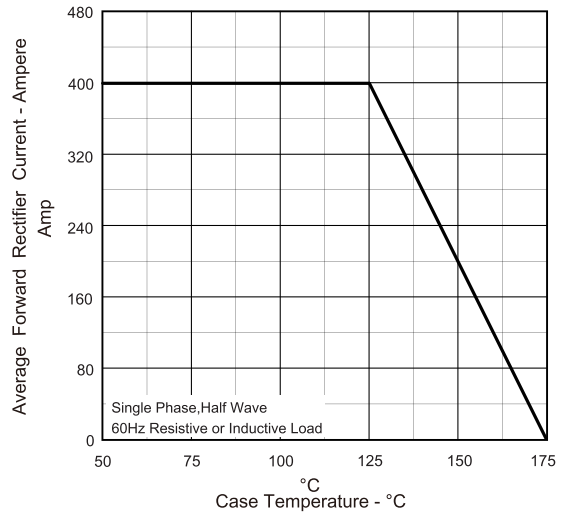
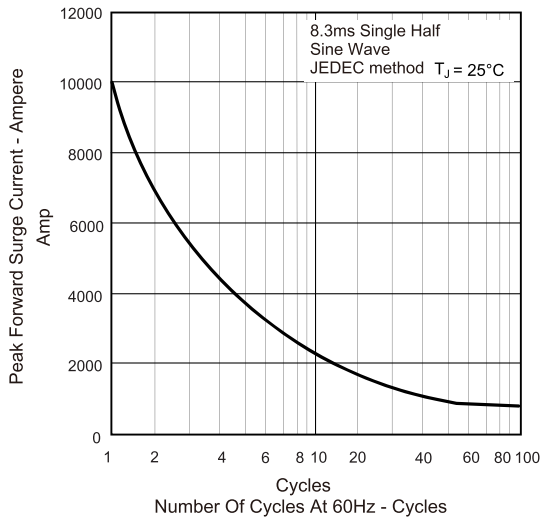
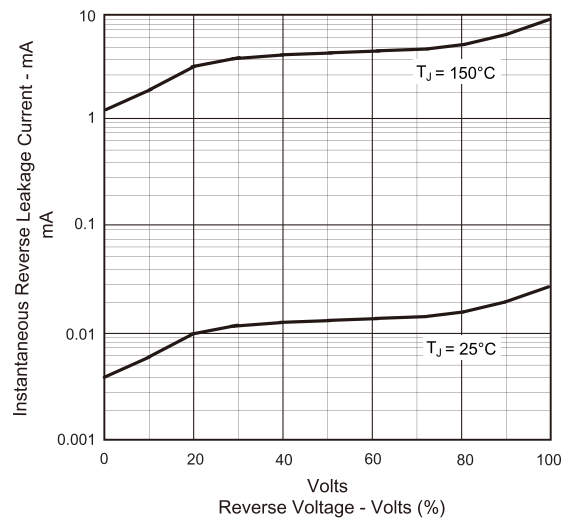
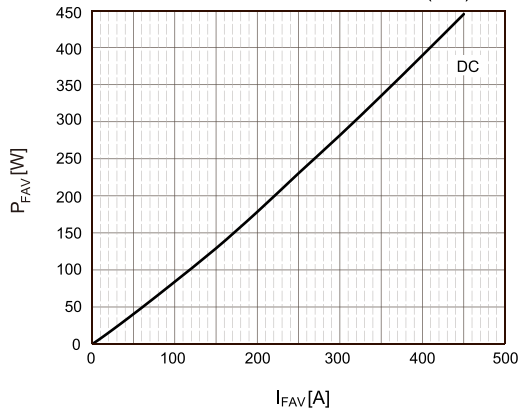
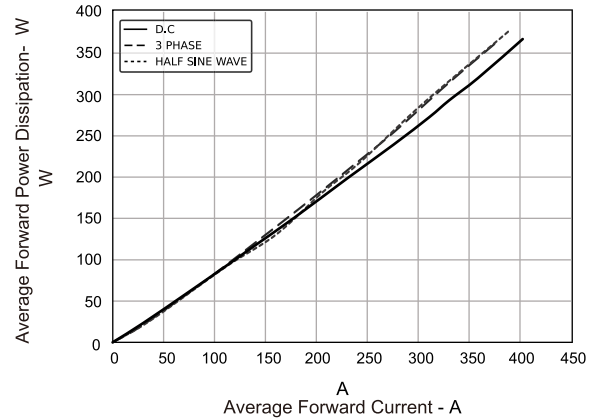
Dimensions in mm (1 mm = 0.0394")


Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	400A	$T_C = 125^{\circ}\text{C}$
Peak Forward Surge Current	I_{FSM}	10000A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * <small>Terminal Chip</small>	V_F	1.05V 1.00V	$I_{FM} = 400A;$ $T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage*	I_R	$30 \mu\text{A}$ 10 mA	$T_J = 25^{\circ}\text{C}$ $T_J = 150^{\circ}\text{C}$
Isolation Voltage <small>(between All Terminals and Baseplate)</small>	V_{isol}	3000V	A.C. 1minute
Maximum Thermal Resistance Junction To Case	$R_{\theta jc}$	0.05°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 $P_{FAV} = f(I_{FAV})$

Figure .6- Average forward current vs Average forward power loss


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