



**SUPER FAST DIODE MODULE TYPES 400A**

**Features**

- High Surge Capability
- Types up to 600V  $V_{RRM}$
- Isolation Type Package
- Electrically Isolation base plate

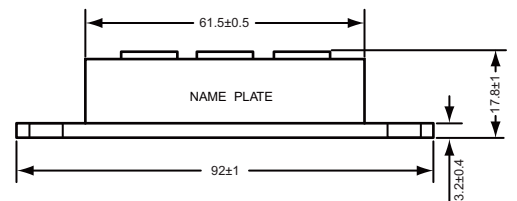
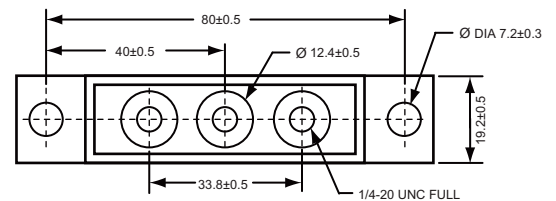
**Maximum Ratings**

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



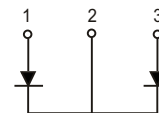
Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURT40020(R)	200V	140V	200V
MURT40040(R)	400V	280V	400V
MURT400A60(R)	600V	420V	600V

Dimensions in mm (1 mm = 0.0394")

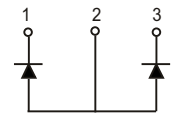


**Electrical Characteristics @ 25 °C Unless Otherwise Specified**

Average Forward Current (Per pkg)	$I_{F(AV)}$	400A	$T_C = 125^\circ C$
Peak Forward Surge Current (Per diode)	$I_{FSM}$	3300A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * (Per diode)	$V_F$	200V: 1.00V 400V: 1.35V 600V: 1.45V	$I_{FM}=200A;$ $T_J = 25^\circ C$
Maximum Instantaneous Reverse Current At Rated DC Blockig Voltage* (Per diode)	$I_R$	25 $\mu A$ 3 mA	$T_J = 25^\circ C$ $T_J = 125^\circ C$
Maximum Reverse Recovery Time (Per diode)	$T_{rr}$	200V: 150ns 400V: 180ns 600V: 240ns	$I_F = 0.5A, I_R=1.0A,$ $I_{RR}=0.25A$
Isolation Voltage	$V_{isol}$	2500 V	A.C. 1minute
Maximum Thermal Resistance Junction To Case (Per diode)	$R_{\theta jc}$	0.35°C/W	
Weight		103g	



Common Cathode  
MURT400XX  
MURT400AXX



Common Anode  
MURT400XXR  
MURT400AXXR

\*Pulse Test: Pulse Width 300  $\mu sec$ , Duty Cycle < 2%



Figure .1- Typical Forward Characteristics

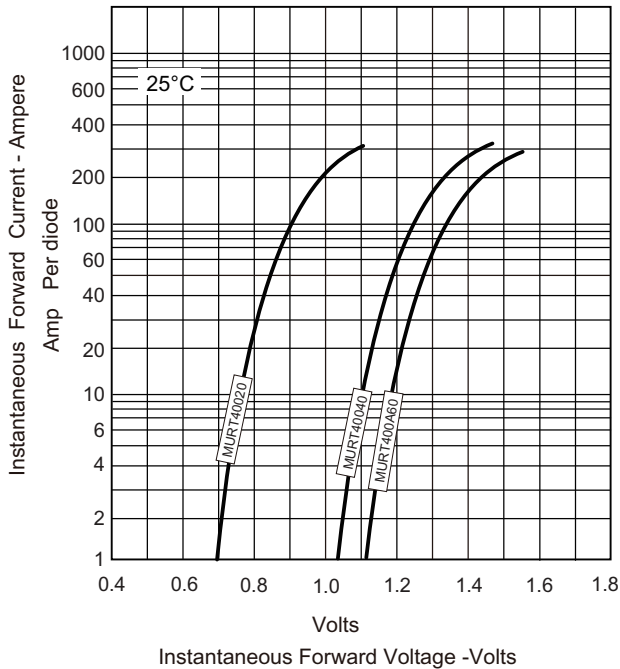


Figure .2-Forward Derating Curve

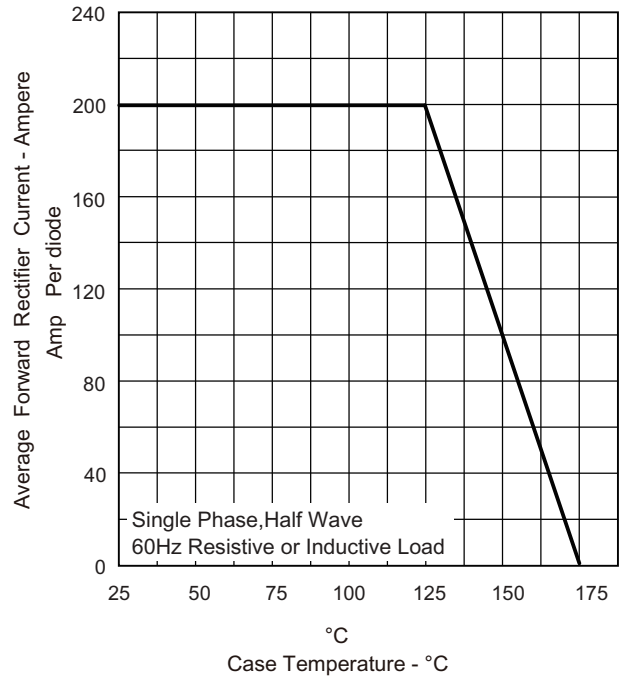


Figure .3- Peak Forward Surge Current

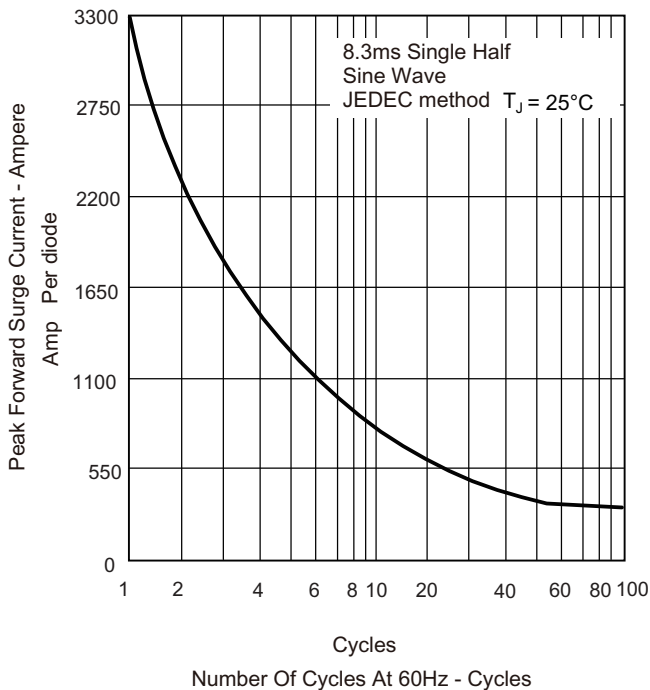
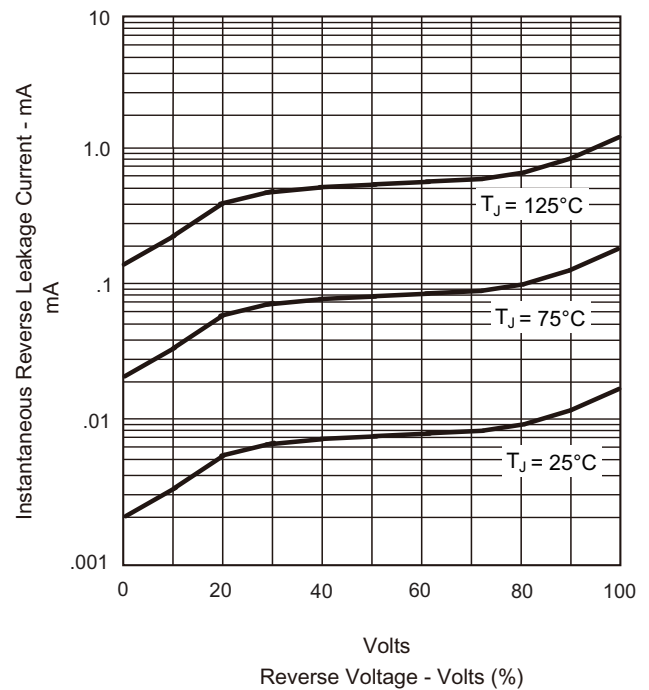


Figure .4-Typical Reverse Characteristics





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