



**SUPER FAST DIODE MODULE TYPES 400A**

**Features**

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

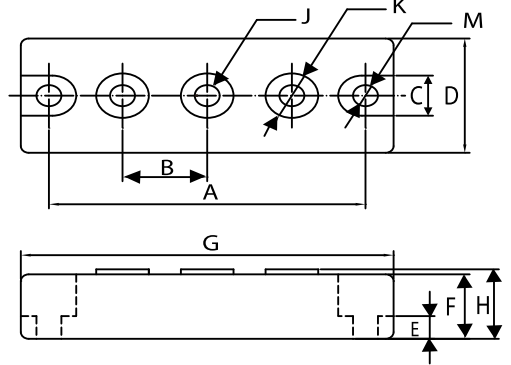
400 Amp Rectifier  
200~600 Volts

**Maximum Ratings**

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

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURTA40020(R)	200V	141V	200V
MURTA40040(R)	400V	283V	400V
MURTA40060(R)	600V	424V	600V

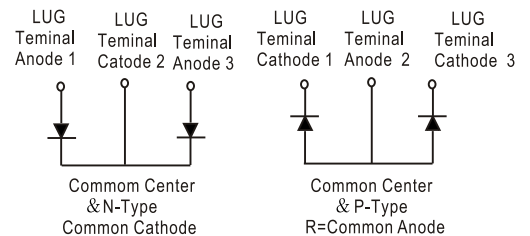
HEAVY THREE TOWER



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

Average Forward Current (Per pkg)	$I_{F(AV)}$	400 A	$T_C = 100^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	$I_{FSM}$	3300A	8.3ms , half Sine
Maximum Instantaneous Forward Voltage * (Per leg)	$V_F$	1.0V 1.3V 1.7V	$I_{FM} = 200A;$ $T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	$I_R$	25 $\mu\text{A}$ 5 mA	$T_J = 25^{\circ}\text{C}$ $T_J = 125^{\circ}\text{C}$
Maximum Reverse Recovery Time (Per leg)	$T_{rr}$	150ns 150ns 180ns	$I_F = 0.5A, I_R = 1.0A,$ $I_{RR} = 0.25A$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.35 $^{\circ}\text{C}/\text{W}$	

\*Pulse Test: Pulse Width 300  $\mu\text{sec}$ , Duty Cycle 2%



DIM	DIMENSIONS			
	Inches		Millimeters	
	Min	Max	Min	Max
A	3.150	NOM	80.01	NOM
B	.872	.892	22.15	22.65
C	.465	.479	11.82	12.18
D	1.337	1.356	33.95	34.45
E	.230	.234	5.84	6.16
F	.725	REF	18.42	REF
G	3.668	3.768	93.17	95.71
H	--	.791	--	20.10
J	1/4-20 UNC FULL			
K	.509	.538	12.92	13.68
M	.238	.258	6.05	6.55



Figure .1- Typical Forward Characteristics

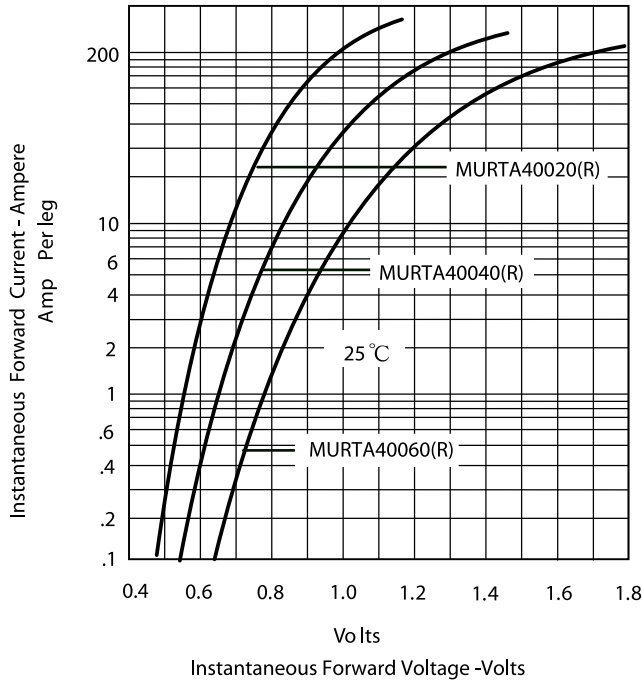


Figure .2- Forward Derating Curve

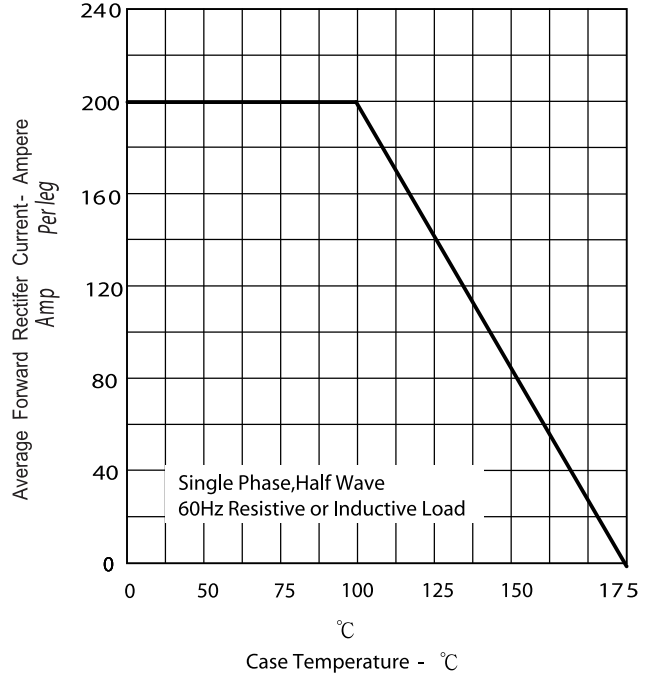


Figure .3- Peak Forward Surge Current

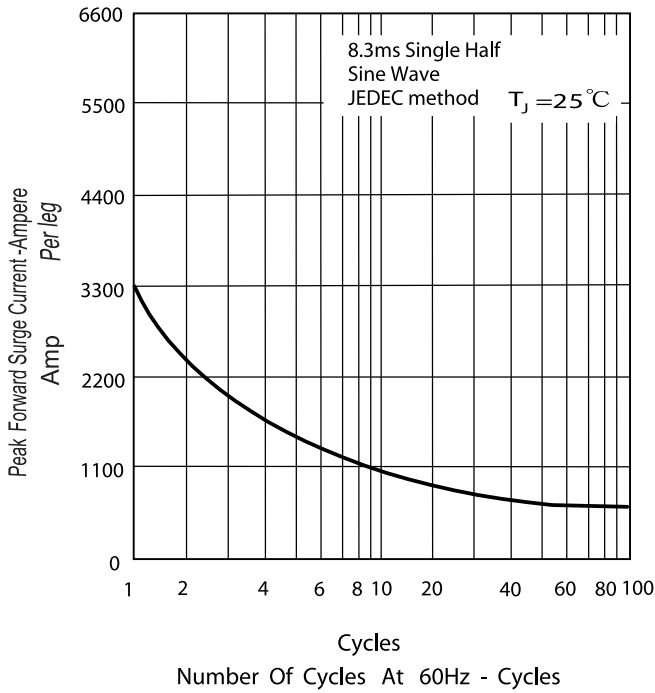


Figure .4-Typical Reverse Characteristics

