



**SUPER FAST DIODE MODULE TYPES 100A**

**Features**

High Surge Capability  
Types Up to 600V  $V_{RRM}$

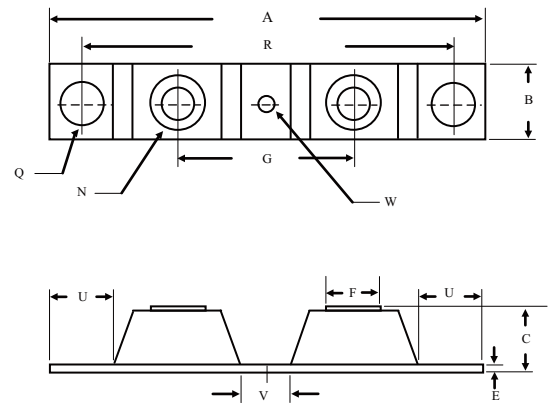
**100 Amp Rectifier  
400-600 Volts**

**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
MUR10040CT(R)	400V	280V	400V
MUR10060CT(R)	600V	420V	600V

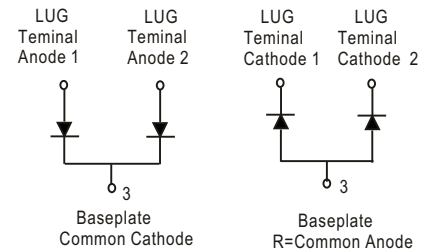
**TWIN TOWER**



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

Average Forward Current (Per pkg)	$I_{F(AV)}$	100A	$T_C = 140^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	$I_{FSM}$	1500A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * (Per leg)	$V_F$	1.3 V 1.7 V	$I_{FM} = 50A;$ $T_J = 25^{\circ}\text{C}$
Maximum Reverse Current At Rated DC Blocking Voltage* (Per leg)	$I_R$	25 uA 3 mA	$T_J = 25^{\circ}\text{C}$ $T_J = 125^{\circ}\text{C}$
Maximum Reverse Recovery Time (Per leg)	$T_{rr}$	90 ns 110 ns	$I_F = 0.5A, I_R = 1.0A,$ $I_{RR} = 0.25A$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	1.0 °C/W	

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



DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	----	3.630	----	92.40
B	0.700	0.800	17.78	20.32
C	----	0.650	----	16.51
E	0.130	0.141	3.30	3.60
F	0.482	0.490	12.25	12.45
G	1.368	BSC	34.75	BSC
N	1/4-20 UNC FULL			
Q	0.275	0.290	6.99	7.37
R	3.150	BSC	80.01	BSC
U	0.600	----	15.24	----
V	0.312	0.370	7.92	9.40
W	0.180	0.195	4.57	4.95



Figure .1- Typical Forward Characteristics

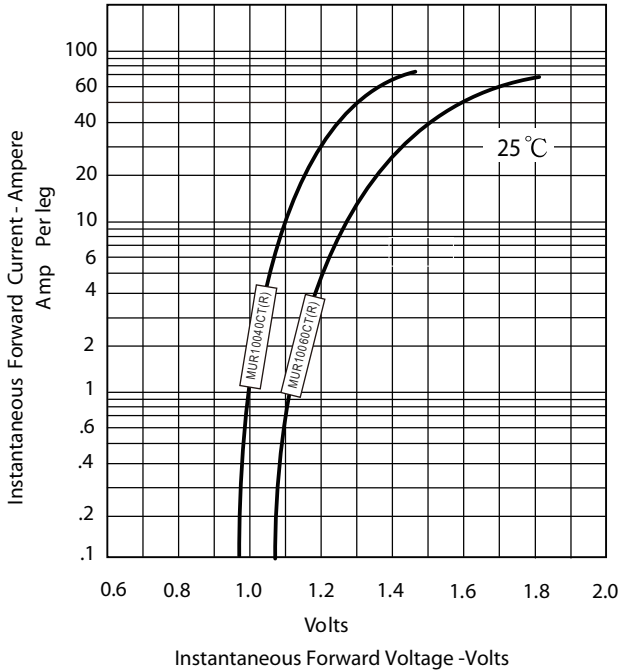


Figure .2- Forward Derating Curve

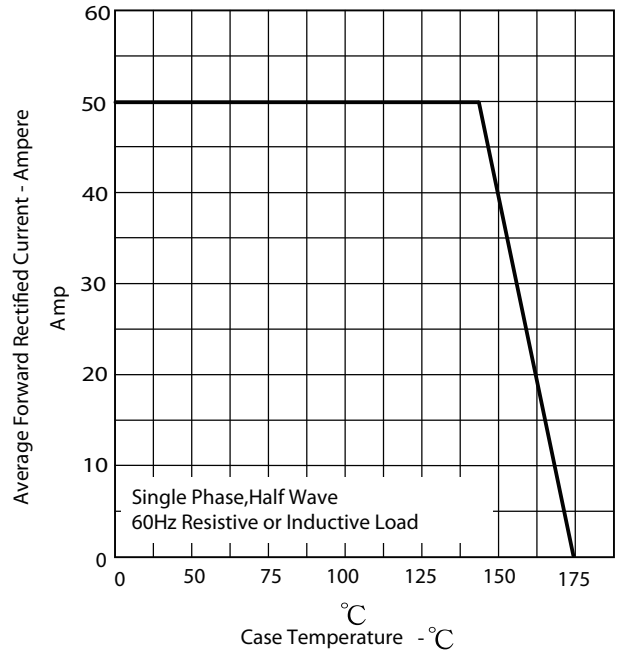


Figure.3- Peak Forward Surge Current

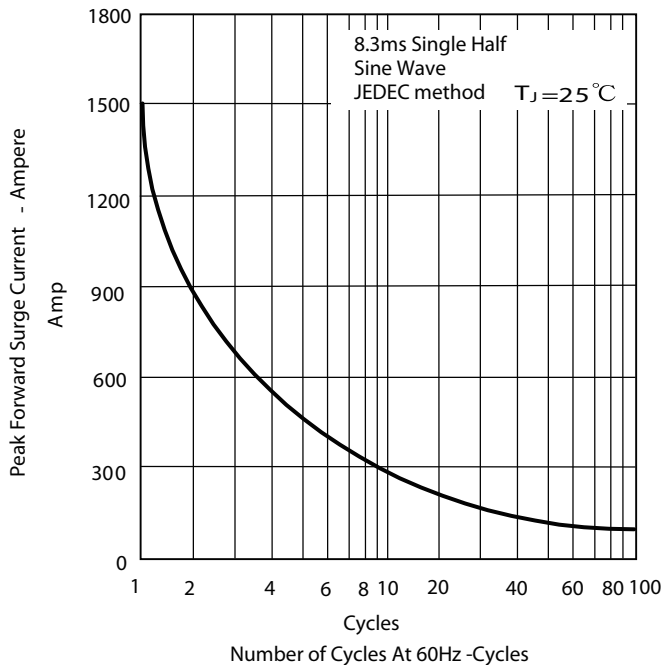


Figure .4 -Typical Reverse Characteristics

