



SUPER FAST DIODE MODULE TYPES 200A

Features

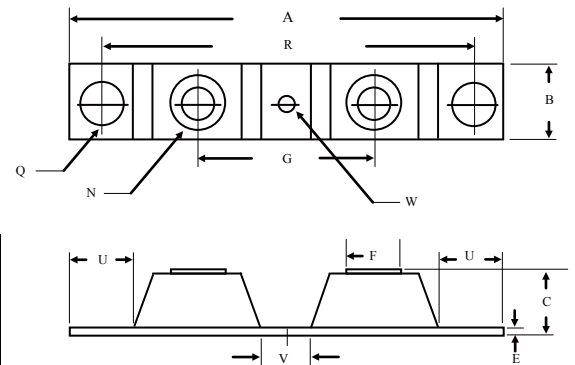
High Surge Capability
Types Up to 600V V_{RRM}

200 Amp Rectifier
50-600 Volts

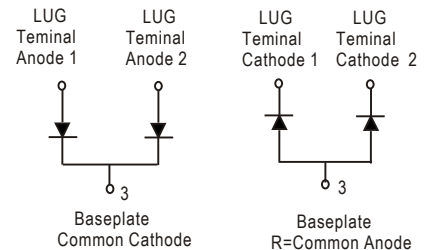
TWIN TOWER

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
MUR20005CT(R)	50V	35V	50V
MUR20010CT(R)	100V	70V	100V
MUR20020CT(R)	200V	140V	200V
MUR20040CT(R)	400V	280V	400V
MUR20060CT(R)	600V	420V	600V



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	200 A	$T_C = 140^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	I_{FSM}	2000 A	8.3ms , half sine
Maximum Instantaneous Forward Voltage * 20005~20020 20040 20060 (Per leg)	V_F	1.0V 1.3V 1.7V	$I_{FM} = 100A;$ $T_J = 25^{\circ}\text{C}$
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 20005~20020 20040 20060 (Per leg)	T_{rr}	75 ns 90 ns 110 ns	$I_F = 0.5A, I_R = 1.0A,$ $I_{RR} = 0.25A$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.45 $^{\circ}\text{C}/\text{W}$	

Marking Notes:

1. R= Stud Reverse Polarity : Anode to Stud
2. None = Stud normal Polarity : Cathode to Stud

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

*Pulse Test:Pulse Width 300 μ sec,Duty Cycle 2%



Figure .1- Typical Forward Characteristics

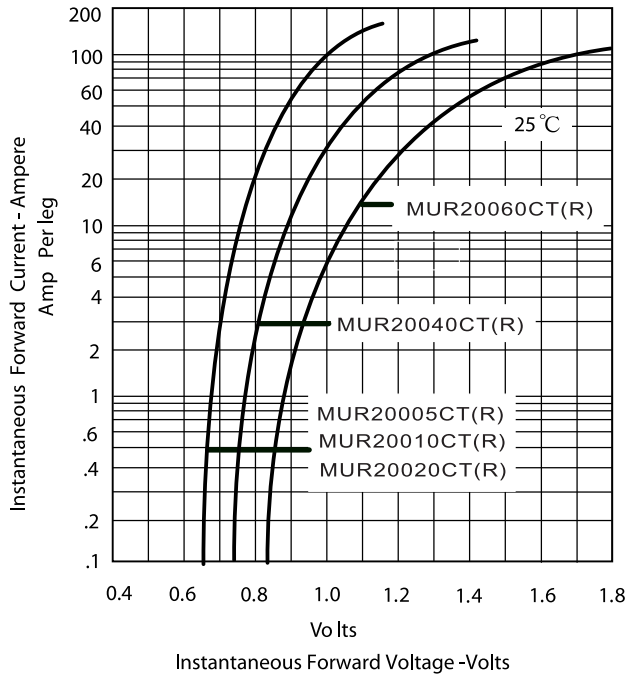


Figure .2- Forward Derating Curve

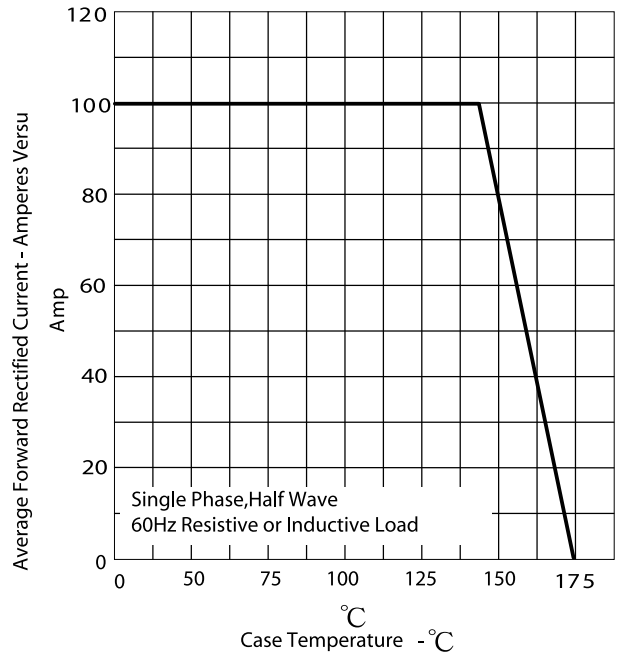


Figure.3- Peak Forward Surge Current

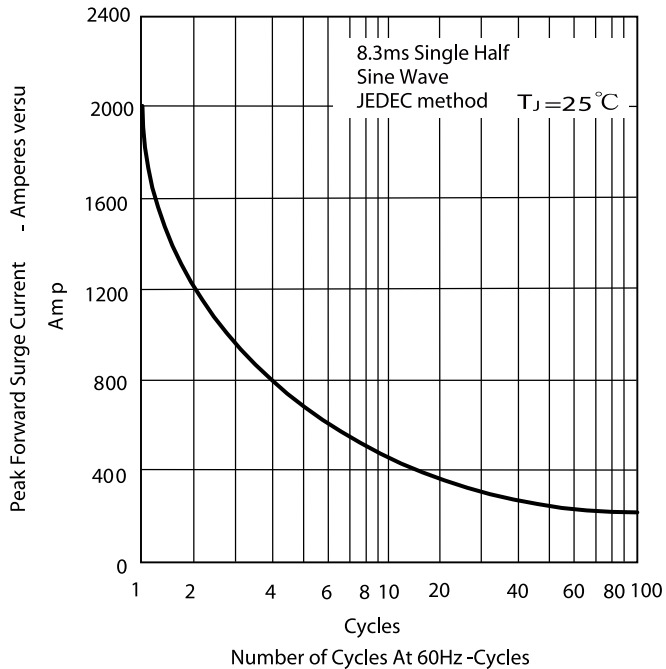


Figure .4 -Typical Reverse Characteristics

