



SCHOTTKY DIODE MODULE TYPES 200A

Features

High Surge Capability  
Types Up to 100V  $V_{RRM}$

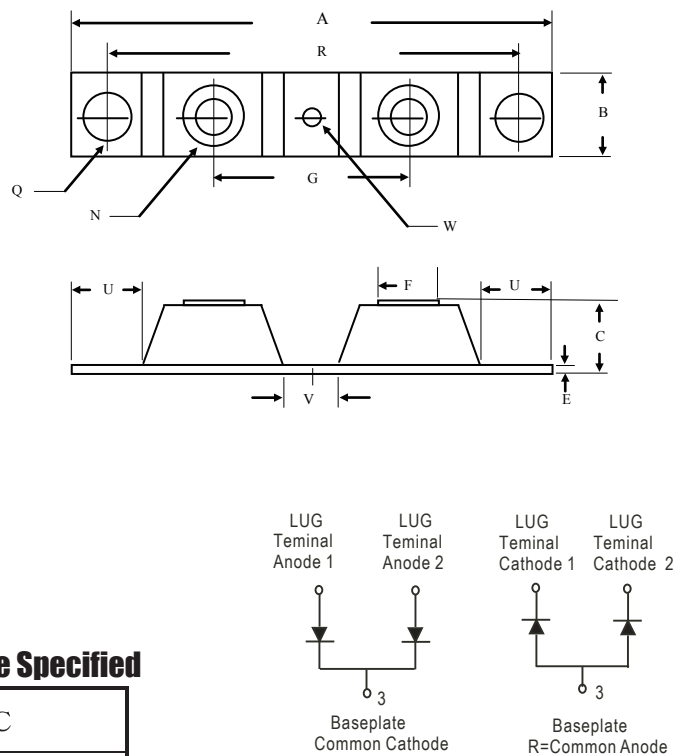
200Amp Rectifier  
20-100 Volts

Maximum Ratings

Operating Temperature:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$   
Storage Temperature:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR20020CT(R)	20V	14V	20V
MBR20030CT(R)	30V	21V	30V
MBR20035CT(R)	35V	25V	35V
MBR20040CT(R)	40V	28V	40V
MBR20045CT(R)	45V	32V	45V
MBR20060CT(R)	60V	42V	60V
MBR20080CT(R)	80V	57V	80V
MBR200100CT(R)	100V	70V	100V

Twin Tower



Electrical Characteristics @  $25^{\circ}\text{C}$  Unless Otherwise Specified

Average Forward Current (Per pkg)	$I_{F(AV)}$	200A	$TC=125^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	$I_{FSM}$	1500A	8.3ms, half sine
Maximum Instantaneous Forward Voltage (Per leg) 20V~45V 60V 80V~100V	$V_F$	0.70V 0.75V 0.84V	$I_{FM}=100\text{A}; T_J=25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	$I_R$	1 mA 10 mA 30 mA	$T_J=25^{\circ}\text{C}$ $T_J=100^{\circ}\text{C}$ $T_J=150^{\circ}\text{C}$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	$0.45^{\circ}\text{C/W}$	

NOTE :

(1) 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

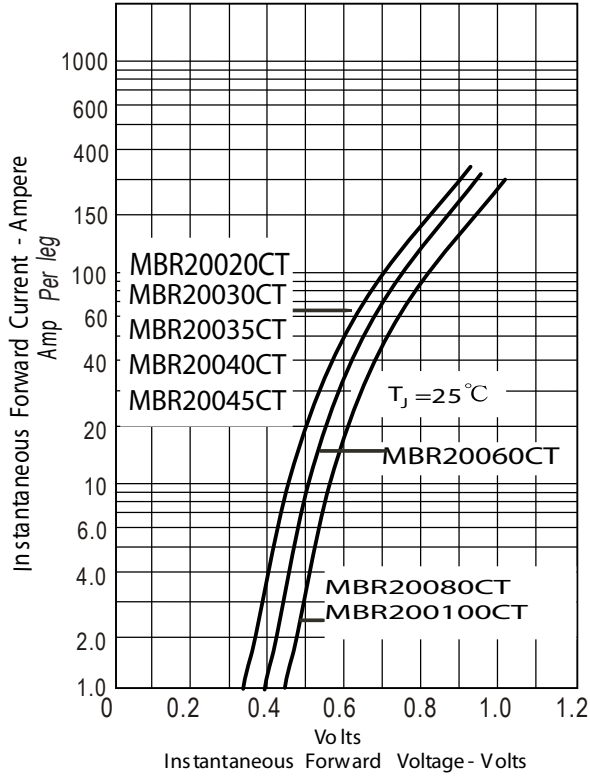


Figure .2- Forward Derating Curve

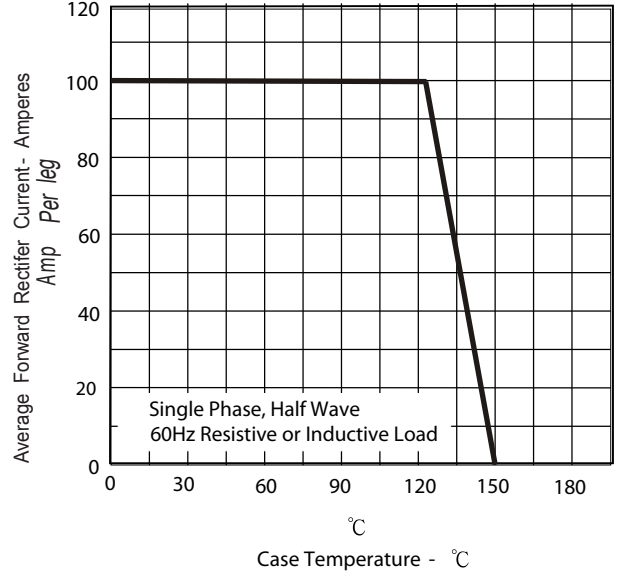


Figure .4- Typical Reverse Characteristics

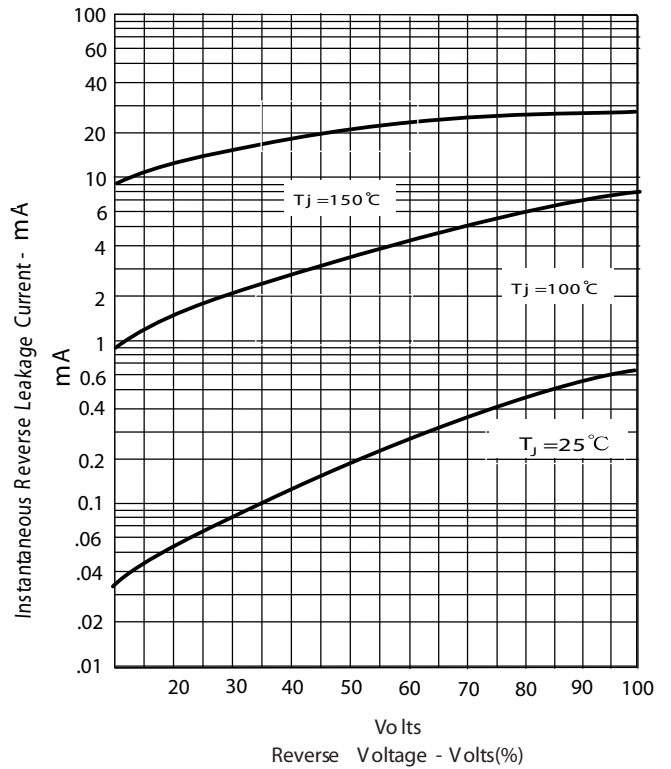


Figure .3- Peak Forward Surge Current

