



SCHOTTKY DIODES MODULE TYPE 200A

Features

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

Maximum Ratings

Operating Temperature: -40°C to $+175^{\circ}\text{C}$
Storage Temperature: -40°C to $+175^{\circ}\text{C}$

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	56V	80V
MBR200100CT(R)	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

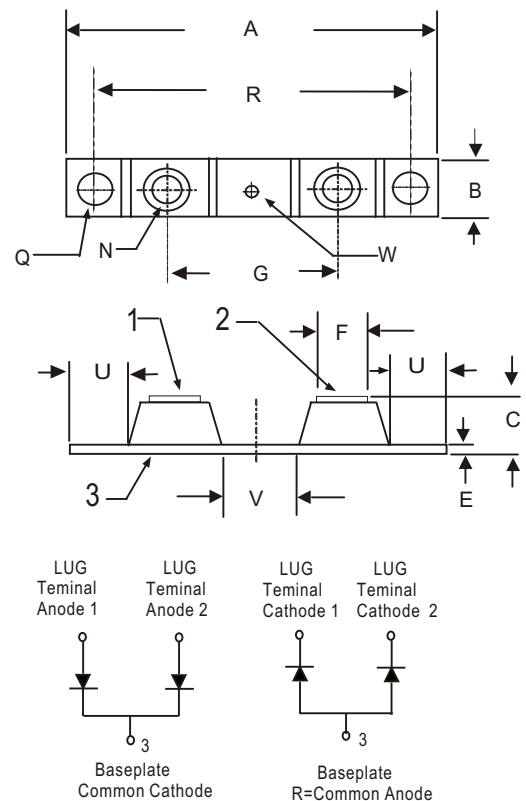
Average Forward Current (Per pkg)	$I_{F(AV)}$	200A	$T_C = 136^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	I_{FSM}	1500A	8.3ms, half sine
Maximum Instantaneous Forward Voltage NOTE (1)	V_F	0.65V 0.75V 0.84V	(MBR20020CT-MBR20045CT) (MBR20060CT) (MBR20080CT-MBR200100CT) $I_{FM} = 100A$; $T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg)	I_R	5.0 mA 200 mA	$T_J = 25^{\circ}\text{C}$ $T_J = 125^{\circ}\text{C}$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	0.8 $^{\circ}\text{C/W}$	

NOTE :

(1) Pulse Test: Pulse Width 300 usec, Duty Cycle < 2%

**200Amp Rectifier
20-100 Volts**

TWIN TOWER



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	----	3.360	----	92.20	
B	0.700	0.800	17.78	20.32	
C	----	0.650	----	16.51	
E	0.120	0.130	3.05	3.30	
F	0.490	0.510	12.45	12.95	
G	1.379	BSC	35.02	BSC	
H	----	----	----	----	
N	1/4	- 20	UNC	FULL	
Q	0.275	0.290	6.99	7.37	2 PL
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	

MBR20020CT(R) THRU MBR200100CT(R)

Figure .1-Typical Forward Characteristics

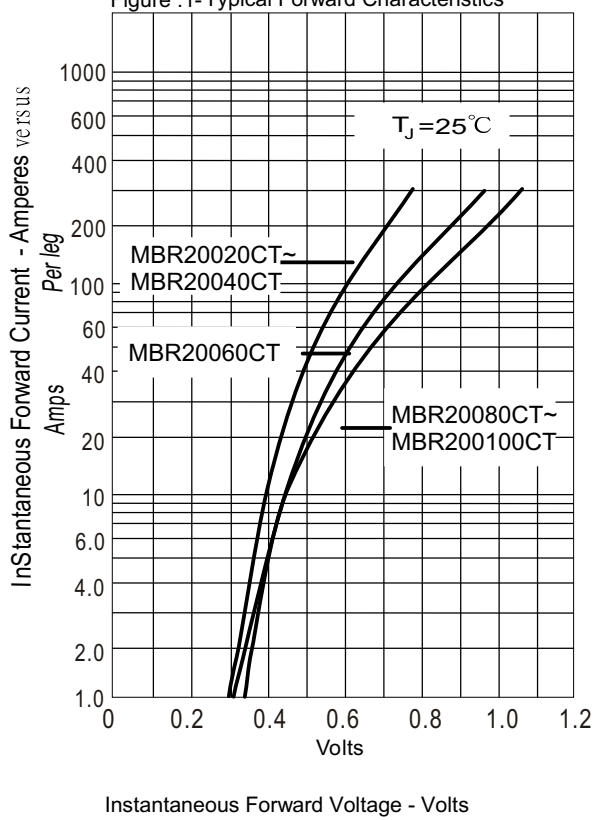


Figure .2- Forward Derating Curve

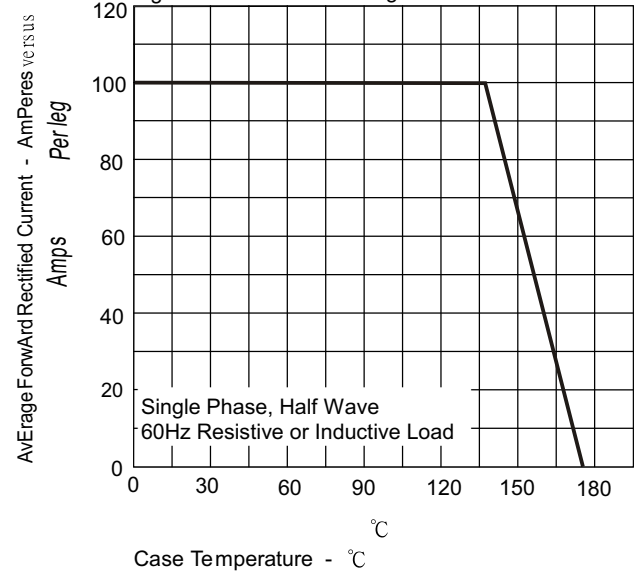


Figure.3- Peak Forward Surge Current

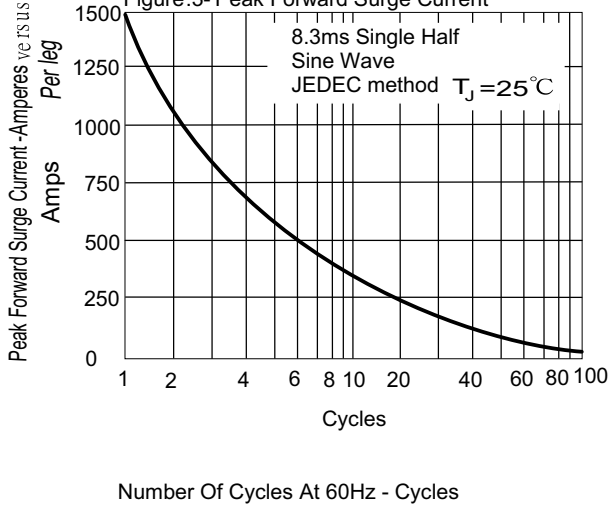


Figure .4-Typical Reverse Characteristics

