

MBR20200CT

HIGH VOLTAGE POWER SCHOTTKY BARRIER RECTIFIER

Forward Current-20A

Reverse Voltage-200V

FEATURES

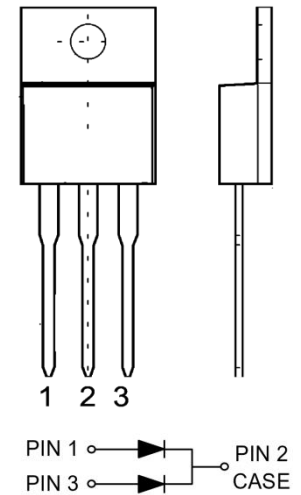
- ◆ High junction temperature capability
- ◆ Good trade off between leakage current
- ◆ And forward volage drop
- ◆ Low leakage current

MAXIMUM RATINGS

- ◆ Operating junction temperature : 150°C
- ◆ Storage temperature: - 50 °C to +150°C

MCC Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR20200CT	200 V	140V	200 V

TO-220



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20 A	$T_C = 125^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine wave
Maximum Instantaneous Forward Voltage MBR 20200CT	V_F V_F	0.95 V 0.80V	$I_{FM} = 10\text{A}$ $T_J = 25^\circ\text{C}$ $I_{FM} = 10\text{A}$ $T_J = 125^\circ\text{C}$
Maximum Reverse Current At Rated DC Blocking Voltage	I_R	50uA 15mA	$T_C = 25^\circ\text{C}$ $T_C = 125^\circ\text{C}$

Dated: 09/2016

Rev:1.0

RATING AND CHARACTERISTIC CURVES

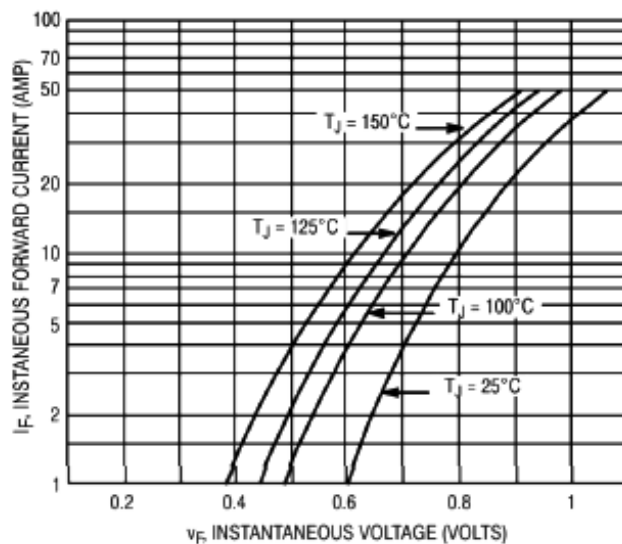


Figure 1. Typical Forward Voltage (Per Leg)

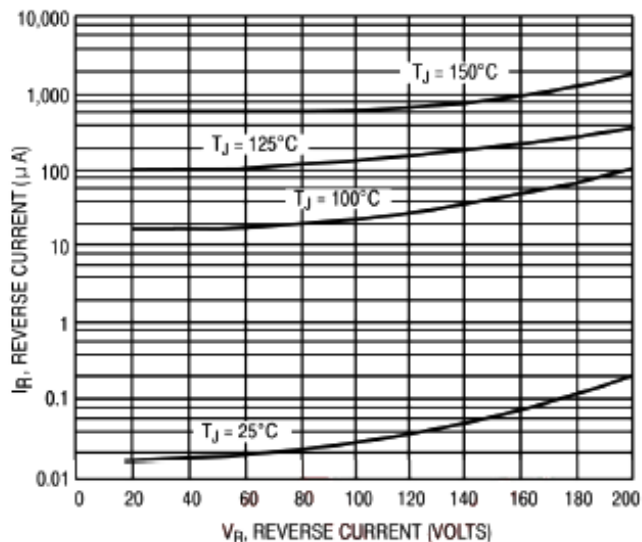


Figure 2. Typical Reverse Current (Per Leg)

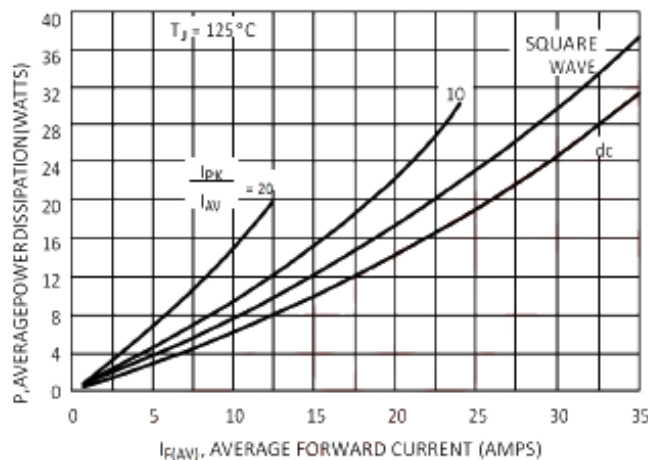


Figure 3. Forward Power Dissipation

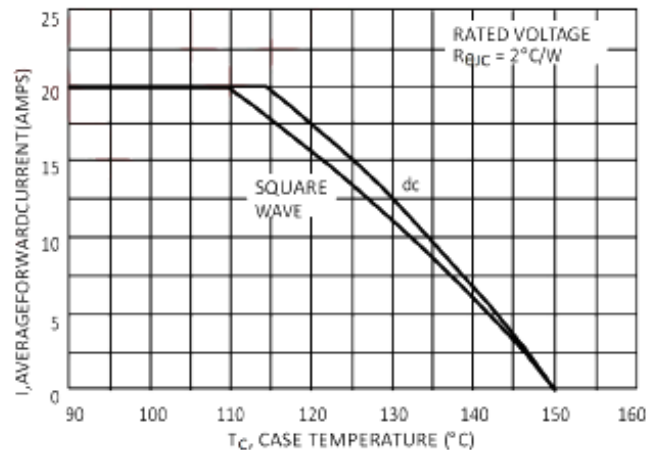


Figure 4. Current Derating, Case

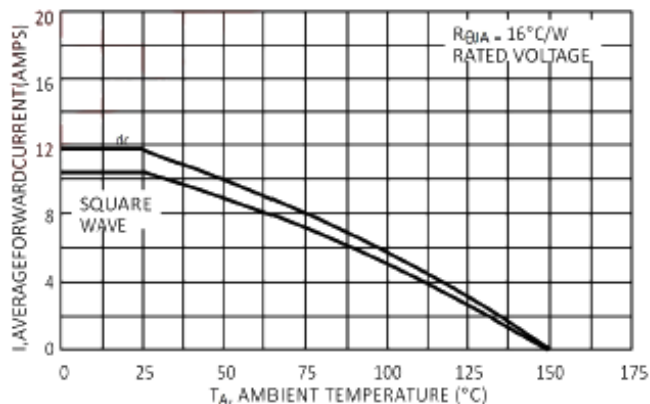


Figure 5. Current Derating, Ambient

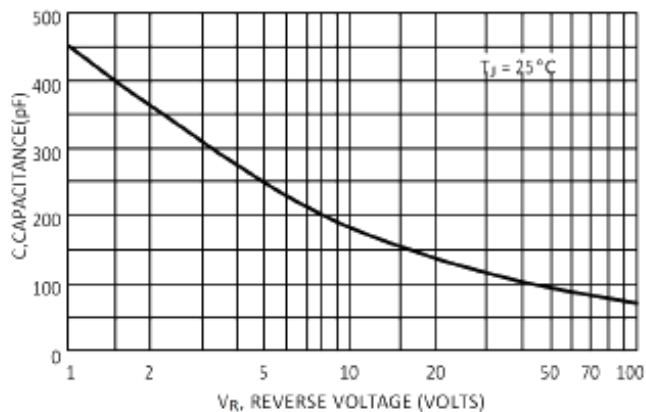
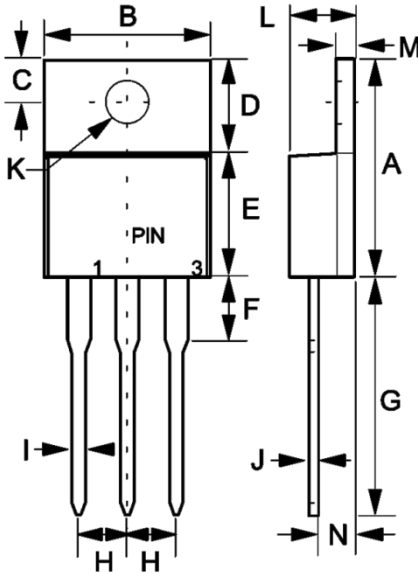


Figure 6. Typical Capacitance (Per Leg)

MBR20200CT

PACKAGE OUTLINE TO-220



DIM	DIMENSIONS		NOTE
	MIN	MAX	
A	15.25	15.75	
B	10.00	10.40	
C	2.65	2.95	
D	6.20	6.60	
E	9.05	9.15	
F	3.50	3.93	
G	13.00	14.00	
H	2.40	2.70	
I	.061	0.88	
J	.049	0.70	
K	3.75	3.85	ϕ
L	4.40	4.60	
M	1.23	1.32	
N	2.6typ		