



Micro Commercial Components



Micro Commercial Components  
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# MBRB20200CT

## Features

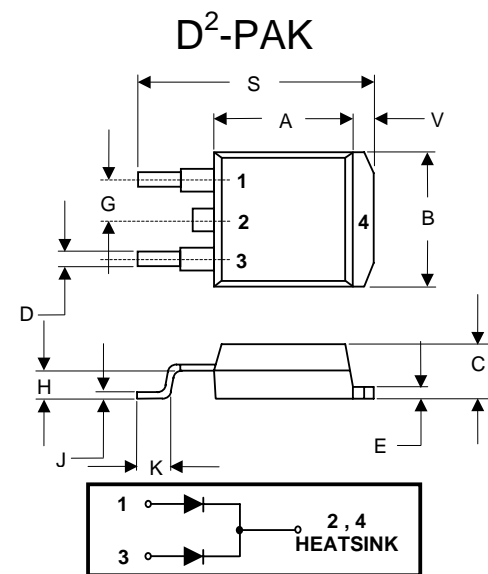
- High Junction Temperature Capability
- Low Leakage Current
- Halogen free available upon request by adding suffix "-HF"
- Marking : type number
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

## 20 Amp High Voltage Power Schottky Barrier Rectifier 200Volts

## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +175°C

MCC Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRB 20200 CT	200 V	140V	200 V

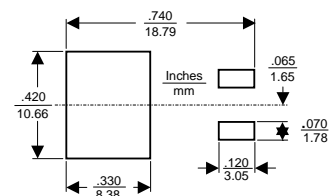


## Electrical Characteristics @ 25°C Unless Otherwise Specified

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 MBRB20200CT	$V_F$	.95 V	$I_{FM} = 10\text{A}$ $T_J = 25^\circ\text{C}$ $I_{FM} = 10\text{A}$ $T_J = 125^\circ\text{C}$
	$V_F$	.80V	
Maximum Reverse Current At Rated DC Blocking Voltage	$I_R$	50µA 15mA	$T_C = 25^\circ\text{C}$ $T_C = 125^\circ\text{C}$

DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.320	.380	8.13	9.65	
B	.380	.411	9.65	10.45	
C	.160	.190	4.06	4.83	
D	.020	.035	0.51	0.89	
E	.045	.059	1.14	1.50	
G	.095	.105	2.41	2.67	
H	.096	.120	2.43	3.03	
J	.014	.021	0.35	0.53	
K	.090	.110	2.29	2.79	
S	.575	.625	14.60	15.80	
V	.045	.055	1.14	1.40	

### SUGGESTED SOLDER PAD LAYOUT



\*Pulse Test: Pulse Width 380µsec, Duty Cycle 2%

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

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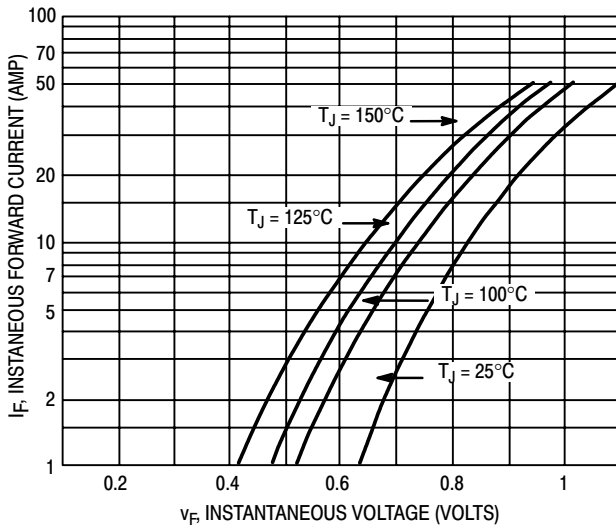


Figure 1. Typical Forward Voltage (Per Leg)

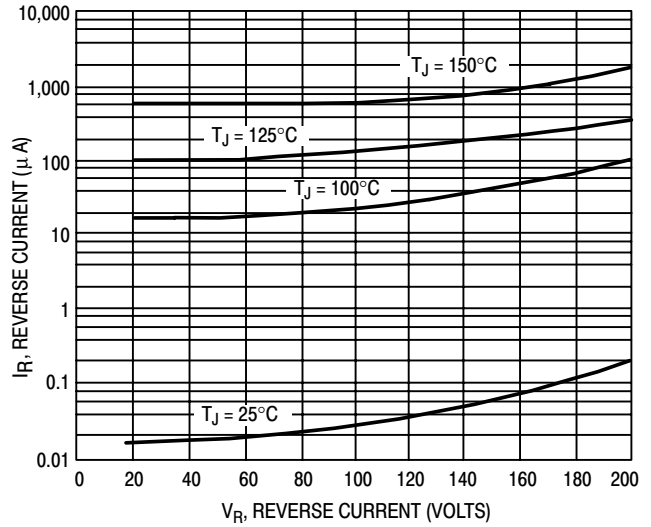


Figure 2. Typical Reverse Current (Per Leg)

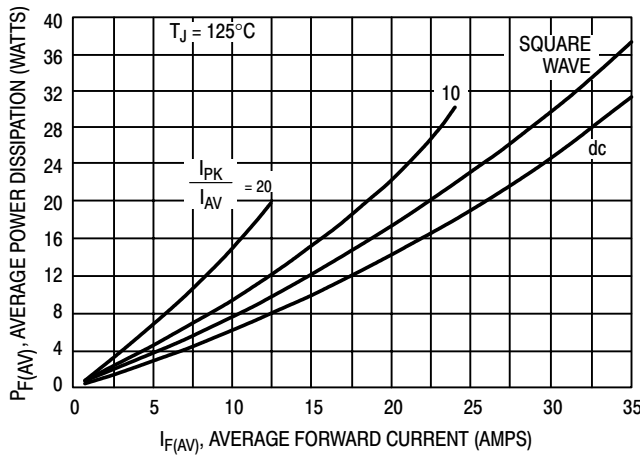


Figure 3. Forward Power Dissipation

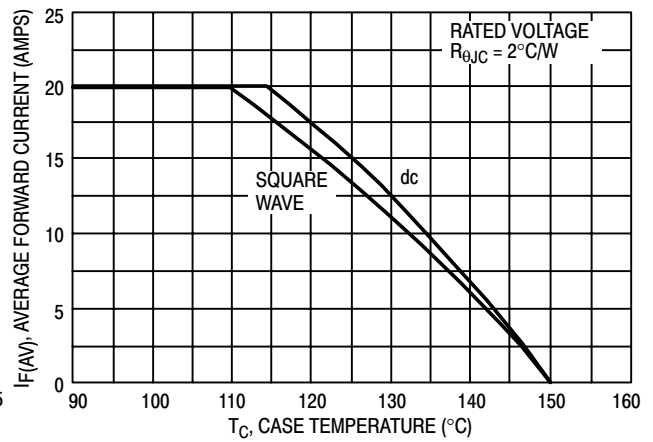


Figure 4. Current Derating, Case

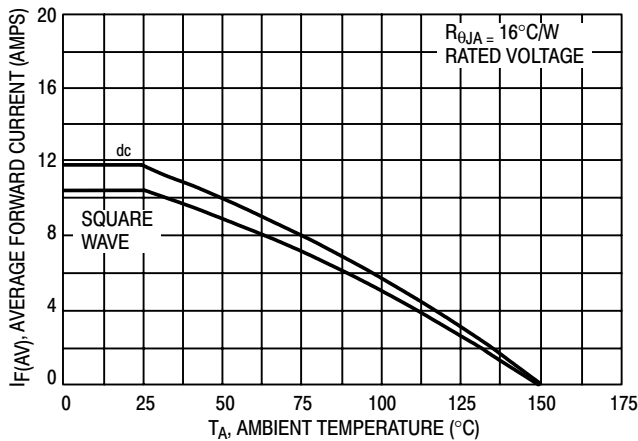


Figure 5. Current Derating, Ambient

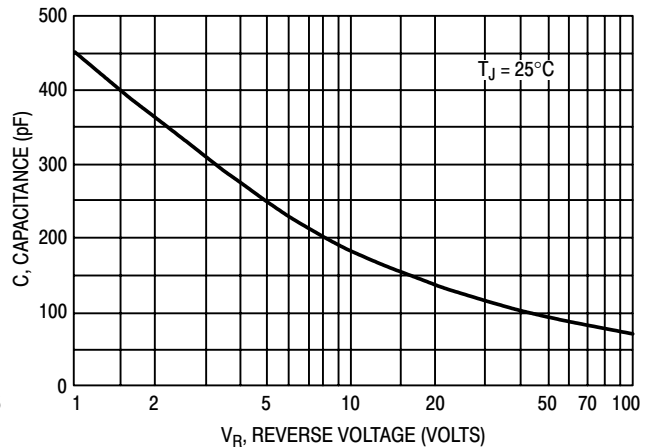


Figure 6. Typical Capacitance (Per Leg)



## Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 800pcs/Reel
Part Number-BP	Tube: 5Kpcs/Ctn

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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