



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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## **MBRB20200CT**

## **Features**

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

# **Maximum Ratings**

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

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

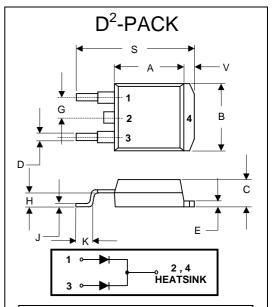
#### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20 A	T <sub>C</sub> = 125 °C		
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms,half sine wave		
Maximum Instantaneous Forward Voltage					
MBRB20200CT	$V_{F}$	.95 V	I <sub>FM</sub> = 10A T <sub>J</sub> = 25°C		
	V <sub>F</sub>	.80V	I <sub>FM</sub> = 10A T <sub>J</sub> = 125°C		
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	50uA 15mA	T <sub>C</sub> = 25°C T <sub>C</sub> = 125°C		

<sup>\*</sup>Pulse Test: Pulse Width380 $\mu$ sec, Duty Cycle 2%

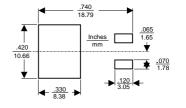
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

# 20 Amp High Voltage Power Schottky Barrier Rectifier 200Volts



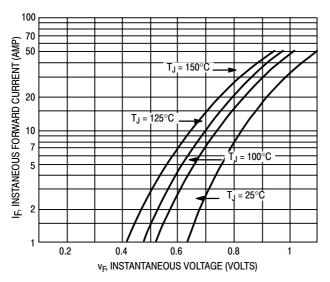
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	.320	.380	8.13	9.65	
В	.380	.411	9.65	10.45	
C	.160	.190	4.06	4.83	
D	.020	.035	0.51	0.89	
Е	.045	.059	1.14	1.50	
G	.095	.105	2.41	2.67	
Ι	.096	.120	2.43	3.03	
J	.014	.021	0.35	0.53	
K	.090	.110	2.29	2.79	·
S	.575	.625	14.60	15.80	·
V	.045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

### SUGGESTED SOLDER PAD LAYOUT





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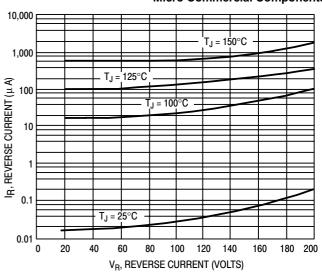
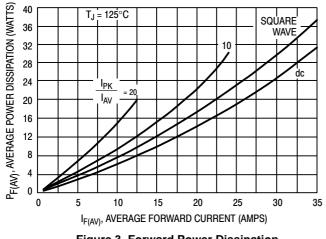


Figure 1. Typical Forward Voltage (Per Leg)

Figure 2. Typical Reverse Current (Per Leg)



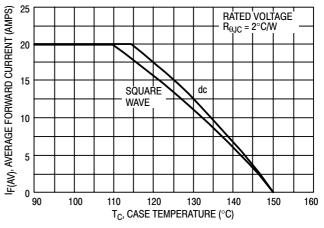
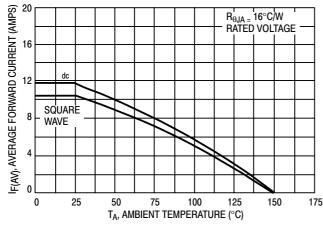


Figure 3. Forward Power Dissipation

Figure 4. Current Derating, Case



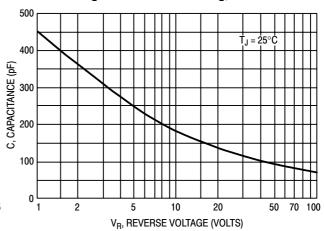


Figure 5. Current Derating, Ambient

Figure 6. Typical Capacitance (Per Leg)



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### **Ordering Information:**

Device	Packing
Part Number-BP	Tube: 1Kpcs/Box

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

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