

Micro Commercial Components

ROHS

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MBRB10200CT

Features

- Halogen free available upon request by adding suffix "-HF"
- Metal of Silicon Rectifier, Majority Carrier Conduction
- Low Leakage Current
- High Current Capability, High Efficiency
- High Junction Temperature Capability
- 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)

Maximum Ratings

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

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRB10200CT	MBRB10200CT	200V	140V	200V

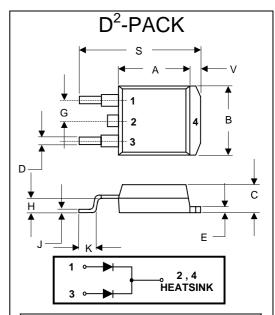
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	10 A	T _J = 125℃		
Peak Forward Surge Current	I _{FSM}	150A	8.3ms, half sine		
Maximum Instantaneous Forward Voltage	V _F	0.98V 0.78V	$I_{FM} = 5.0A; T_J = 25^{\circ}C$ $I_{FM} = 5.0A; T_J = 125^{\circ}C$		
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	50μA 7.0mA	T _J = 25°C T _J = 125°C		

^{*}Pulse test: Pulse width 380 µsec, Duty cycle 2%

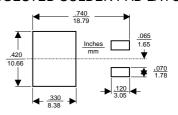
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes $\,$ 7.

10 Amp High Voltage Power Schottky Barrier Rectifier 200 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOIL
Α	.320	.359	8.13	9.14	
В	.380	.411	9.65	10.45	
С	.160	.190	4.06	4.83	
D	.020	.035	0.51	0.89	
Е	.045	.055	1.14	1.40	
G	.095	.105	2.41	2.67	
Н	.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	

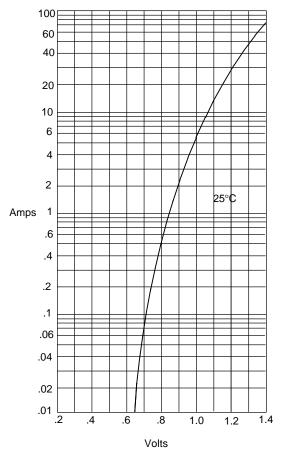
SUGGESTED SOLDER PAD LAYOUT



MBRB10200CT

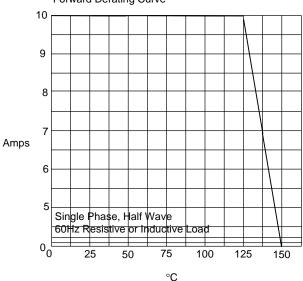
 $\cdot M \cdot C \cdot C \cdot$

Figure 1 Typical Forward Characteristics



Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

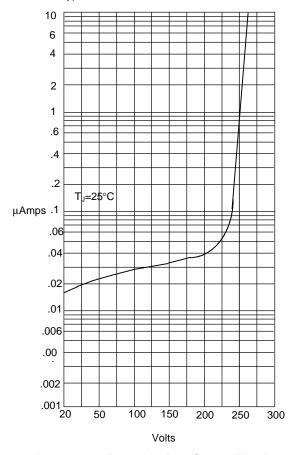
Figure 3
Forward Derating Curve



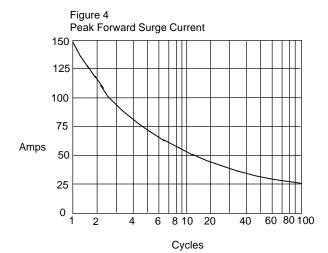
Average Forward Rectified Current - Amperes*versus* Ambient Temperature -°C



Figure 2 Micro Commercial Components
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes*versus* Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



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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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