

#### **Features**

- Halogen Free. "Green" Device (Note 1)
- 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(Note 2) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +175°C
- Thermal Resistance: 2°C/W Junction to Case

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

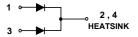
# Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	10A	T <sub>c</sub> =125°C
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.9V 0.7V	I <sub>FM</sub> =5.0A; T <sub>J</sub> =25°C I <sub>FM</sub> =5.0A; T <sub>J</sub> =125°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	10μA 2mA	T <sub>J</sub> =25°C T <sub>J</sub> =125°C

#### Note:

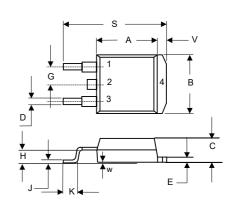
- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High temperature solder exemption applied, see EU directive annex 7a.

### **Internal Structure**



# 10 Amp High Voltage Power Schottky Barrier Rectifier 200 Volts

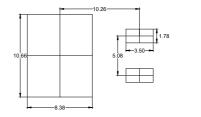
# D<sup>2</sup>-PAK



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOIL	
Α	0.331	0.370	8.40	9.40		
В	0.378	0.417	9.60	10.60		
O	0.165	0.189	4.20	4.80		
D	0.027	0.037	0.68	0.94		
Е	0.045	0.055	1.14	1.40		
G	0.10		2.54		TYP.	
Н	0.096	0.134	2.43	3.40		
J	0.011	0.025	0.28	0.64		
K	0.071	0.131	1.80	3.32		
S	0.575	0.625	14.60	15.87		
V	0.042	0.058	1.07	1.47		
W	0.000	0.010	0.00	0.25		

#### **Suggested Solder Pad Layout**

Unit:m





## **Curve Characteristics**

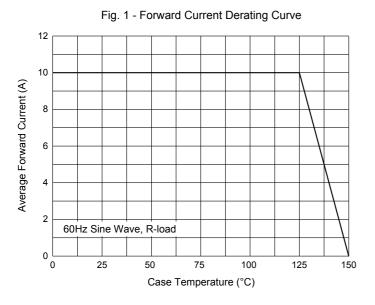
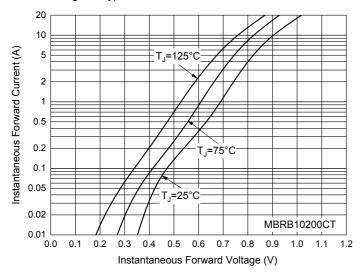


Fig. 3 - Typical Instantaneous Forward Characteristics



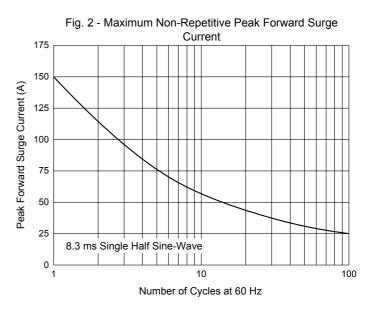
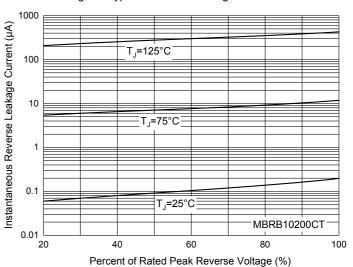


Fig. 4 - Typical Reverse Leakage Characteristics





## **Ordering Information**

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

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