

#### **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(Note 1) ("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

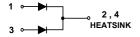
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRB10200CT	MBRB10200CT	200V	140V	200V

# 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	Tյ=25°C Tյ=125°C

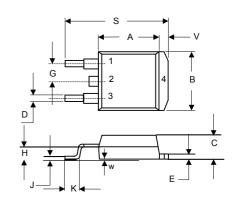
Note:1. High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 7a.

#### **Internal Structure**



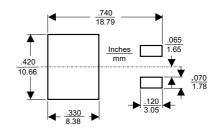
# 10 Amp High Voltage Power Schottky Barrier Rectifier 200 Volts

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



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.320	0.359	8.13	9.14	
В	0.374	0.453	9.50	11.50	
С	0.160	0.200	4.06	5.10	
D	0.020	0.038	0.51	0.96	
E	0.045	0.055	1.14	1.40	
G	0.083	0.110	2.10	2.80	
Н	0.096	0.134	2.43	3.40	
J	0.011	0.025	0.28	0.64	
K	0.090	0.131	2.29	3.32	
S	0.575	0.652	14.22	16.55	
V	0.042	0.058	1.07	1.47	
W	0.000	0.008	0.00	0.20	

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





## **Curve Characteristics**

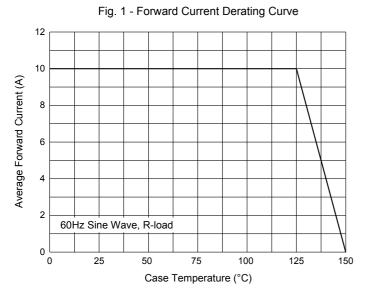
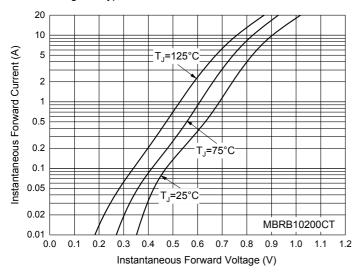


Fig. 3 - Typical Instantaneous Forward Characteristics



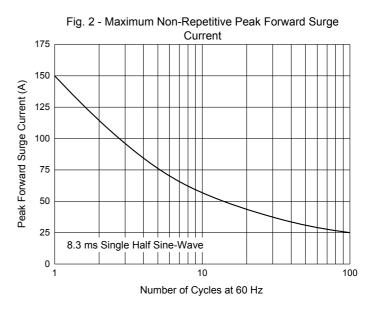
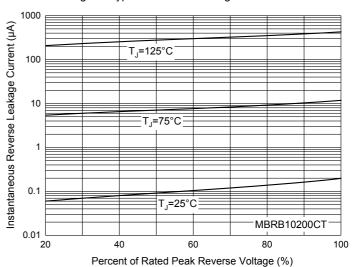


Fig. 4 - Typical Reverse Leakage Characteristics





## **Ordering Information**

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

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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