

**Micro Commercial Components** 



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### Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information) Metal of Silicon Rectifier, Majority Carrier Conduction
- Low Power Loss
- High Current Capability, High Efficiency Halogen free available upon request by adding suffix "-HF" Guard Ring For Transient Protection Epoxy meets UL 94 V-0 flammability rating

- Moisture Sensitivity Level 1

### Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Thermal resistance junction to case: 2.5°C/W

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRB10100CT	MBRB10100CT	100V	70V	100V

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

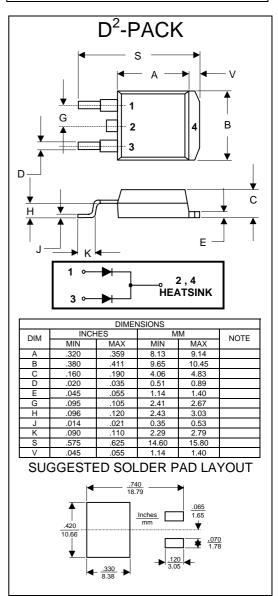
Average Forward Current	I <sub>F(AV)</sub>	10 A	T <sub>C</sub> = 100°C
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.85V 0.75V	$I_{FM} = 5.0A; T_J = 25^{\circ}C$ $I_{FM} = 5.0A; T_J = 125^{\circ}C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.1mA 15mA	T <sub>J</sub> = 25℃ T <sub>J</sub> = 125℃

\*Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

## **MBRB10100CT**

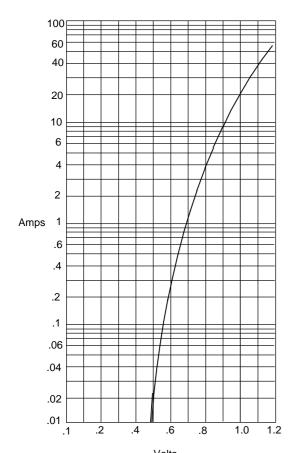
## **10 Amp Schottky Barrier Rectifier** 100 Volts



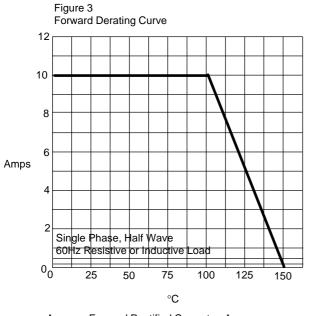
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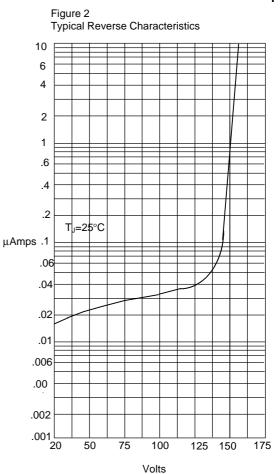
## MBRB10100CT

Figure 1 Typical Forward Characteristics

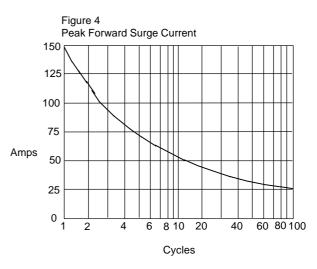


Volts Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts





Instantaneous Reverse Leakage Current - MicroAmperesversus Percent Of Rated Peak Reverse Voltage - Volts



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

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### **Revision: B**



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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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