

**Micro Commercial Components** 

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### **Features**

- Metal of Silicon Rectifier, Majority Carrier Conduction
- Low Leakage Current
- High Current Capability, High Efficiency
- High Junction Temperature Capability
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

### **Maximum Ratings**

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°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 <sub>F(AV)</sub>	10 A	T <sub>J</sub> = 125℃
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.98V 0.78V	$\begin{split} I_{FM} &= 5.0 \text{A}; \ T_J = 25^\circ \text{C} \\ I_{FM} &= 5.0 \text{A}; \ T_J = 125^\circ \text{C} \end{split}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	50µA 7.0mA	T <sub>J</sub> = 25℃ T <sub>J</sub> = 125℃

\*Pulse test: Pulse width 380 µsec, Duty cycle 2%

# **MBRB10200CT**

## 10 Amp High Voltage Power Schottky Barrier Rectifier 200 Volts



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MBRB10200CT

Figure 1 Typical Forward Characteristics







Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

Figure 2 Micro Commercial Components Typical Reverse Characteristics



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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