



# MBRB10100CT thru MBRB10200CT

10.0A Schottky Barrier Rectifiers

Rectifier Reverse Voltage 100 to 200V

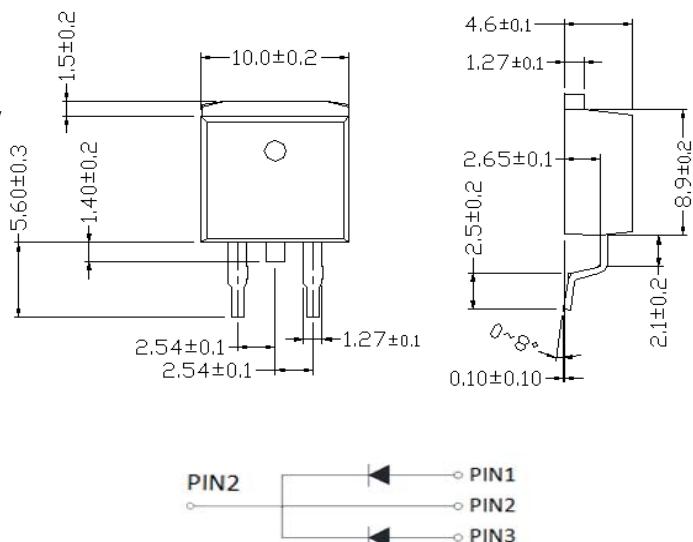
## TO-263AB

### Features

- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 260 °C max. 8 s, per JESD 22-B106

### Mechanical Data

- **Package:** TO-263AB  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked



Dimensions in millimeters ( 1mm =0.0394" )

### ■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBRB10100CT	MBRB10150CT	MBRB10200CT
Device marking code			MBRB10100CT	MBRB10150CT	MBRB10200CT
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V	100	150	200
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25°C	I <sub>O</sub>	A		10	
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25°C	I <sub>FSM</sub>	A		90	
Current Squared Time @1ms≤t<8.3ms T <sub>j</sub> =25°C,	I <sup>2</sup> t	A <sup>2</sup> s		33.6	
Storage Temperature	T <sub>stg</sub>	°C		-55 ~ +175	
Junction Temperature	T <sub>j</sub>	°C		-55 ~ +150	

### ■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRB10100CT	MBRB10150CT	MBRB10200CT
Maximum instantaneous forward voltage drop per diode	V <sub>FM</sub>	V	I <sub>FM</sub> =5.0A	0.85	0.90	0.92
Maximum DC reverse current at rated DC blocking voltage per diode	I <sub>RRM1</sub>	mA	V <sub>RM</sub> =V <sub>RRM</sub> , Ta=25°C	0.1	0.05	
	I <sub>RRM2</sub>		V <sub>RM</sub> =V <sub>RRM</sub> , Ta=125°C		20	
Thermal Resistance	Between junction and case		R <sub>θJ-C</sub> °C/W		2.0	

**Rating and Characteristic Curves (  $T_A=25^\circ\text{C}$  Unless otherwise noted )**  
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