



MBR10150CT thru MBR10200CT

10.0A Schottky Barrier Rectifiers

Rectifier Reverse Voltage 150 to 200V

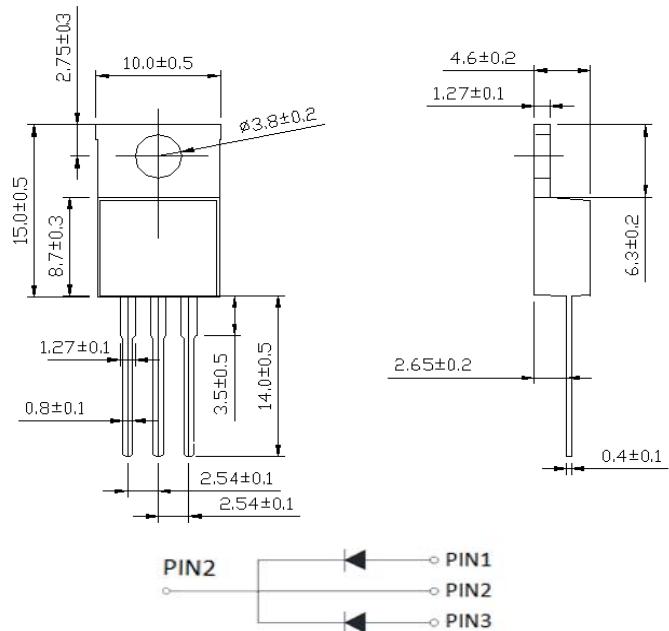
TO-220AB

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-220AB
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 ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBR10150CT	MBR10200CT
Device marking code			MBR10150CT	MBR10200CT
Repetitive Peak Reverse Voltage	V_{RRM}	V	150	200
Average Rectified Output Current @60Hz sine wave, R-load, $T_a=25^\circ\text{C}$	I_O	A	10	
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_a=25^\circ\text{C}$	I_{FSM}	A	90	
Current Squared Time @1ms≤t<8.3ms $T_j=25^\circ\text{C}$,	I^2t	A^2s	33.6	
Storage Temperature	T_{stg}	°C		-55 ~ +175
Junction Temperature	T_j	°C		-55 ~ +175

■Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR10150CT	MBR10200CT
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	$I_{FM}=5.0\text{A}$	0.9	0.92
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	mA	$V_{RM}=V_{RRM}$ $T_a=25^\circ\text{C}$	0.05	
	I_{RRM2}		$V_{RM}=V_{RRM}$ $T_a=125^\circ\text{C}$	20	
Thermal Resistance	Between junction and case		$R_{\theta J-C}$	2.0	
			°C/W		

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