



MBR20150CT thru MBR20200CT

20.0A 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

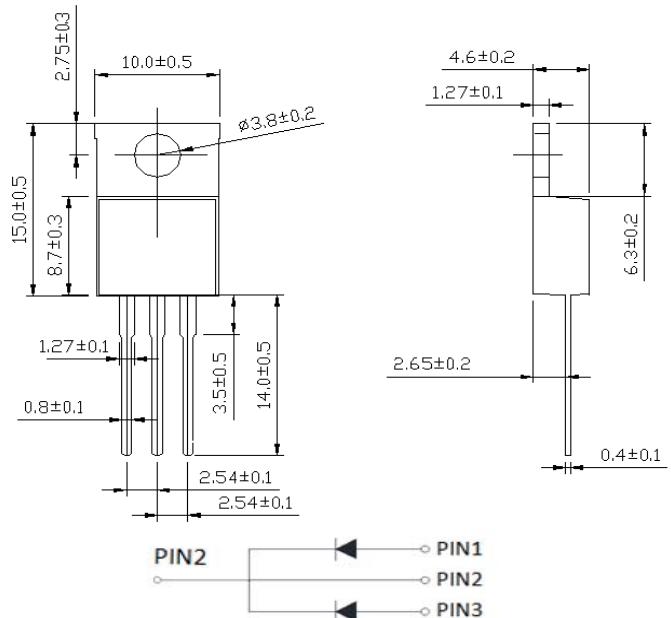
Mechanical Data

• 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	MBR20150CT	MBR20200CT
Device marking code			MBR20150CT	MBR20200CT
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	20	
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_a=25^\circ\text{C}$	I_{FSM}	A	150	
Current Squared Time @1ms≤t<8.3ms $T_j=25^\circ\text{C}$,	I^2t	A^2s	94	
Storage Temperature	T_{stg}	$^\circ\text{C}$		-55 ~ +175
Junction Temperature	T_j	$^\circ\text{C}$		-55 ~ +175

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR20150CT	MBR20200CT
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	$I_{FM}=10.0\text{A}$	0.92	0.95
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	mA	$V_{RM}=V_{RRM}$ $T_a=25^\circ\text{C}$		0.1
	I_{RRM2}		$V_{RM}=V_{RRM}$ $T_a=125^\circ\text{C}$		20
Thermal Resistance	Between junction and case		$R_{\theta J-C}$	$^\circ\text{C/W}$	
					2.0

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