



MBR2045CT thru MBR20100CT

20.0A Schottky Barrier Rectifiers

Rectifier Reverse Voltage 45 to 100V

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

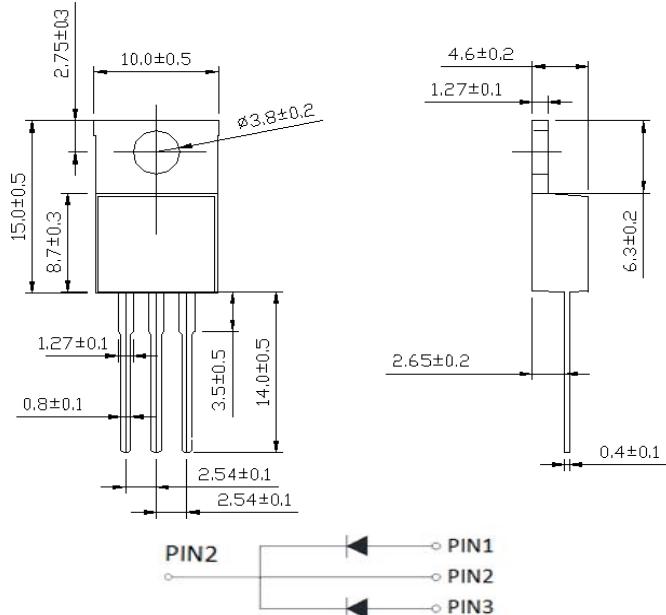
Mechanical Data

• 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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBR2045CT	MBR2060CT	MBR20100CT
Device marking code			MBR2045CT	MBR2060CT	MBR20100CT
Repetitive Peak Reverse Voltage	V _{RRM}	V	45	60	100
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25°C	I _O	A		20	
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25°C	I _{FSM}	A		150	
Current Squared Time @1ms≤t<8.3ms T _j =25°C,	I ² t	A ² s		94	
Storage Temperature	T _{stg}	°C		-55 ~ +150	
Junction Temperature	T _j	°C		-55 ~ +150	

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR2045CT	MBR2060CT	MBR20100CT
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =10.0A	0.68	0.82	0.88
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	mA	V _{RM} =V _{RRM} Ta=25°C	0.25	0.2	0.15
	I _{RRM2}		V _{RM} =V _{RRM} Ta=125°C		20	
Thermal Resistance	Between junction and case		R _{θJ-C} °C/W		2.0	

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