



# MBR2045CT thru MBR2060CT

20.0A Schottky Barrier Rectifiers

Rectifier Reverse Voltage 100 to 200V

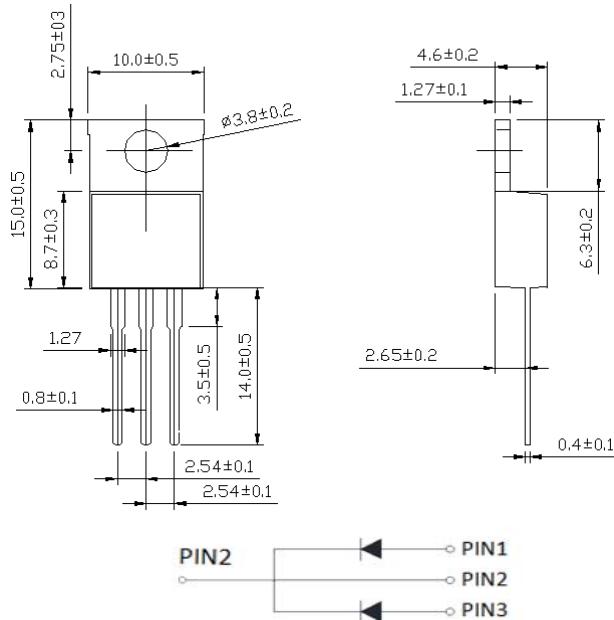
TO-220

## 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)

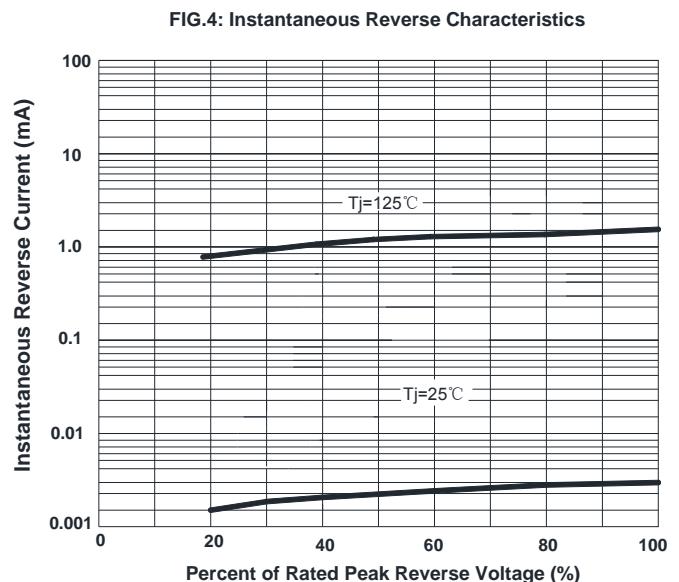
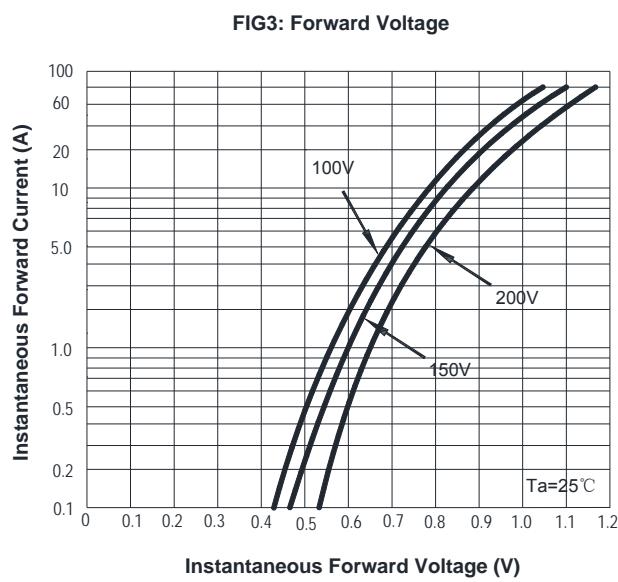
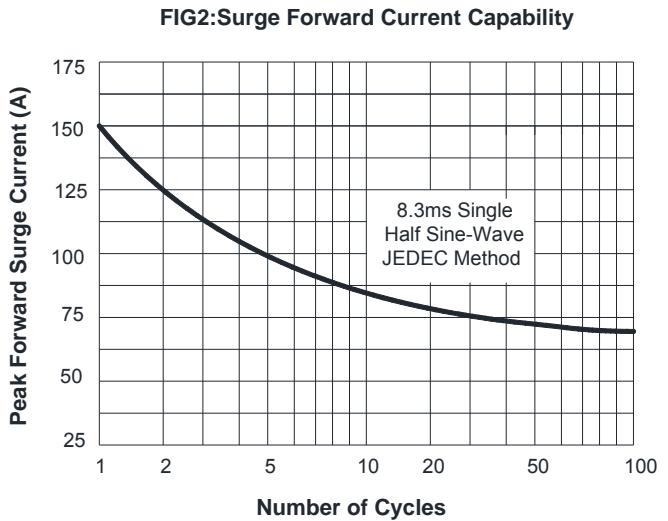
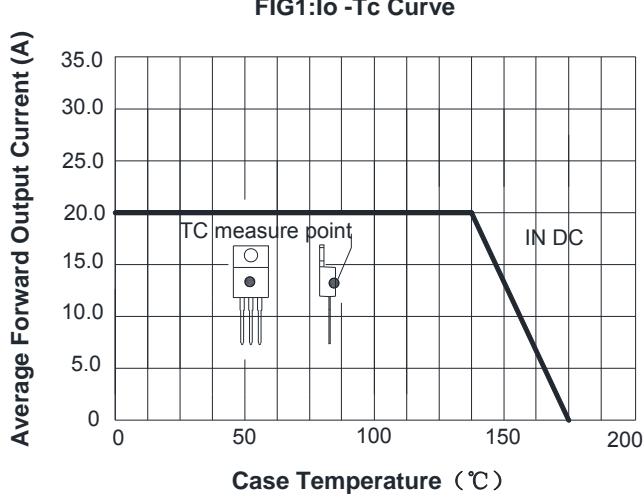
PARAMETER	SYMBOL	UNIT	MBR2045CT	MBR2060CT
Device marking code			MBR2045CT	MBR2060CT
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V	45	60
Average Rectified Output Current @60Hz sine wave, R-load, $T_a=25^\circ\text{C}$	I <sub>O</sub>	A	20	
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_a=25^\circ\text{C}$	I <sub>FSM</sub>	A	150	
Current Squared Time @1ms≤t<8.3ms $T_j=25^\circ\text{C}$ ,	I <sup>2</sup> t	A <sup>2</sup> s	94	
Storage Temperature	T <sub>stg</sub>	°C		-55 ~ +175
Junction Temperature	T <sub>j</sub>	°C		-55 ~ +150

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR2045CT	MBR2060CT
Maximum instantaneous forward voltage drop per diode	V <sub>FM</sub>	V	I <sub>FM</sub> =10.0A	0.68	0.82
Maximum DC reverse current at rated DC blocking voltage per diode	I <sub>RRM1</sub>	mA	V <sub>RM</sub> =V <sub>RRM</sub> $T_a=25^\circ\text{C}$	0.2	0.15
	I <sub>RRM2</sub>		V <sub>RM</sub> =V <sub>RRM</sub> $T_a=125^\circ\text{C}$	20	
Thermal Resistance	Between junction and case		R <sub>θJ-C</sub>	2.0	

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

## MBR2045CT thru MBR2060CT



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