MBR10100CT THRU MBR10200CT

Schottky Diodes

## Features

• High efficiency operation

RLIL🚱N

- Guard ring for enhanced ruggedness and long term reliablity
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Solder dip maximum peak of 275 °C /7s, per JESD 22-B106

# **Typical Application**

For use in switching power supplies, converters, freewheeling diodes and reverse battery protection.

## **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: Color Band denotes cathode end

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

DADAMETED	Cumb al	11	Canditiana	MBR		
PARAMETER	PARAMETER Symbol Unit Conditions		10100CT	10150CT	10200CT	
Repetitive Peak Reverse Voltage	VRRM	V		100	150	200
Average Rectified Output Current	lo	А	60HZ Half-sine wave, Resistance load, Tc(Fig.1)	10		
Surge(Nonrepetitive)Forward Current	I <sub>FSM</sub>	А	60HZ sine wave, 1 cycle, Ta=25℃	100		
Current Squared Time	I <sup>2</sup> T	A <sup>2</sup> S	1ms≤t < 8.3ms Tj =25℃,Rating of per diode	41		
Storage Temperature	T <sub>stg</sub>	°C		-55 ~ +150		
Junction Temperature	Tj	°C	IN DC Forward Mode-Forward Operations, without reverse bias, t ≤1 h (Fig. 1)①	-55 ~ +150		

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

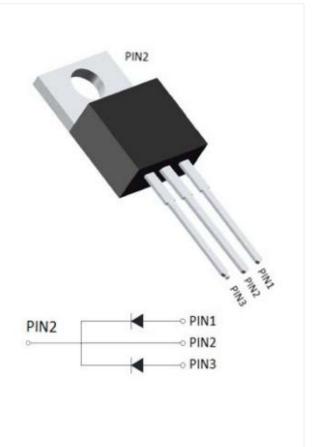
PARAMETER	Symbol	Unit	Conditions		MAX MBR		
					10100CT	10150CT	10200CT
Peak Forward Voltage	V <sub>FM</sub>	V	I <sub>FM</sub> =5.0A		0.85	0.9	0.95
Peak Reverse Current	I <sub>RRM1</sub>	mA	V <sub>RM</sub> =V <sub>RRM</sub>	Ta=25℃	0.1		•
	I <sub>RRM2</sub>			Ta=100℃	20		
Thermal Resistance	R <sub>θJ-C</sub>	°C/W	Between junction and case		2.0		

#### NOTES:

Meets the requirement of IEC 61215 Ed.2 bypass diode thermal test



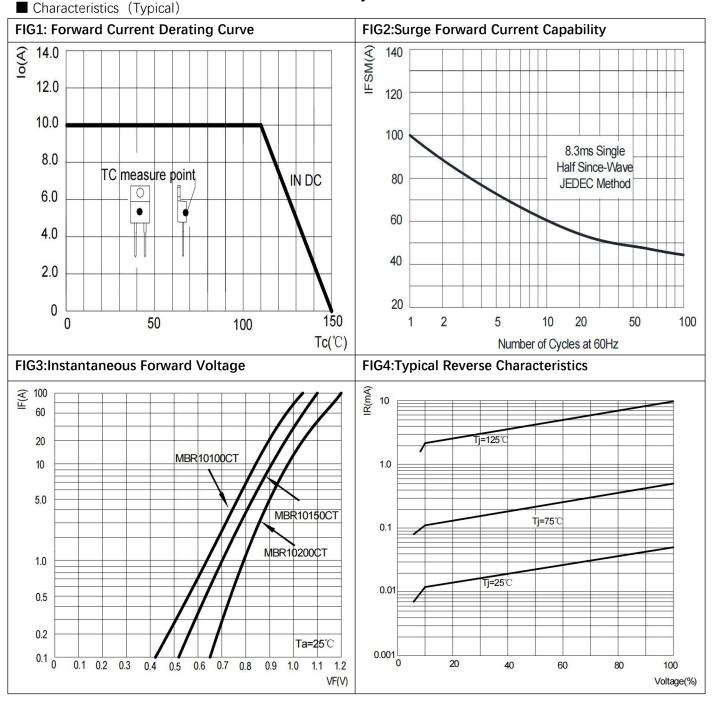






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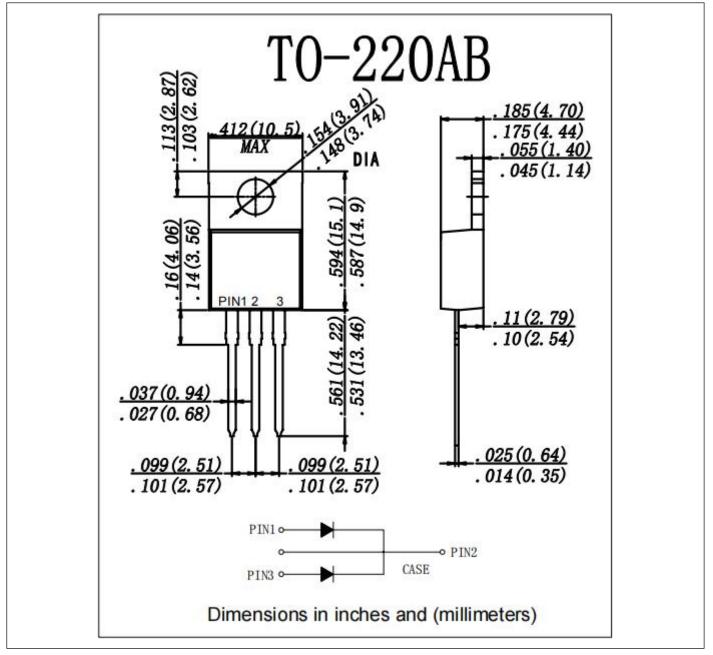
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Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR10100CT ~ MBR10200CT	TO-220AB	50	1000	5000	Tube

#### Outline Dimensions





Specifications are subject to change without notice. Please refer to http://www.ruilon.com.cn for current information.

