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 _{FSM}	А	60HZ sine wave, 1 cycle, Ta=25℃	100		
Current Squared Time	I ² T	A ² S	1ms≤t < 8.3ms Tj =25℃,Rating of per diode	41		
Storage Temperature	T _{stg}	°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)

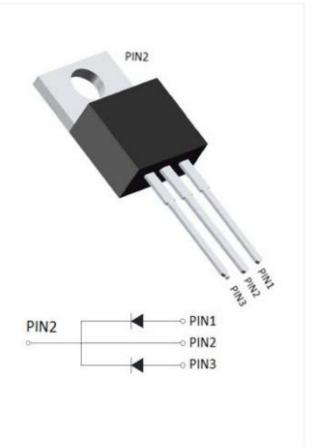
PARAMETER	Symbol	Unit	Conditions		MAX MBR		
					10100CT	10150CT	10200CT
Peak Forward Voltage	V _{FM}	V	I _{FM} =5.0A		0.85	0.9	0.95
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	Ta=25℃	0.1		•
	I _{RRM2}			Ta=100℃	20		
Thermal Resistance	R _{θJ-C}	°C/W	Between junction and case		2.0		

NOTES:

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



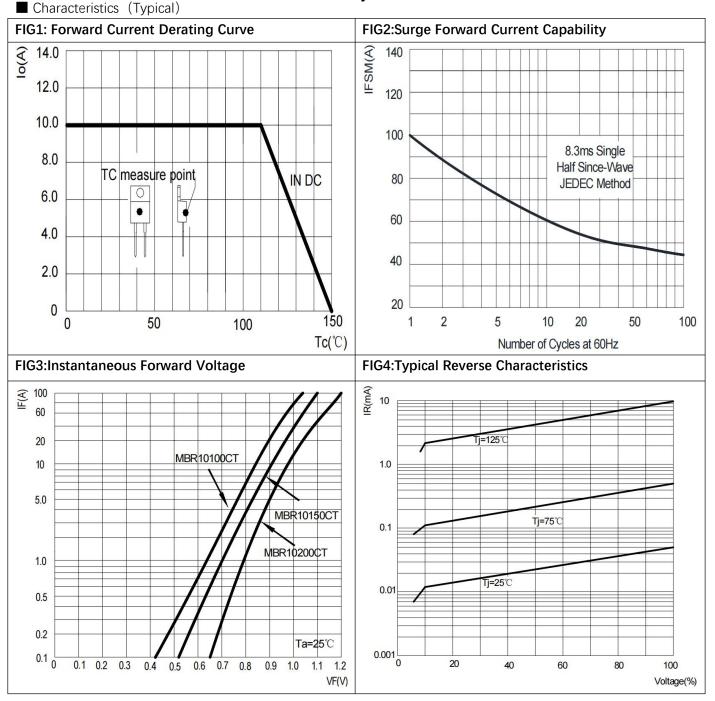




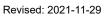


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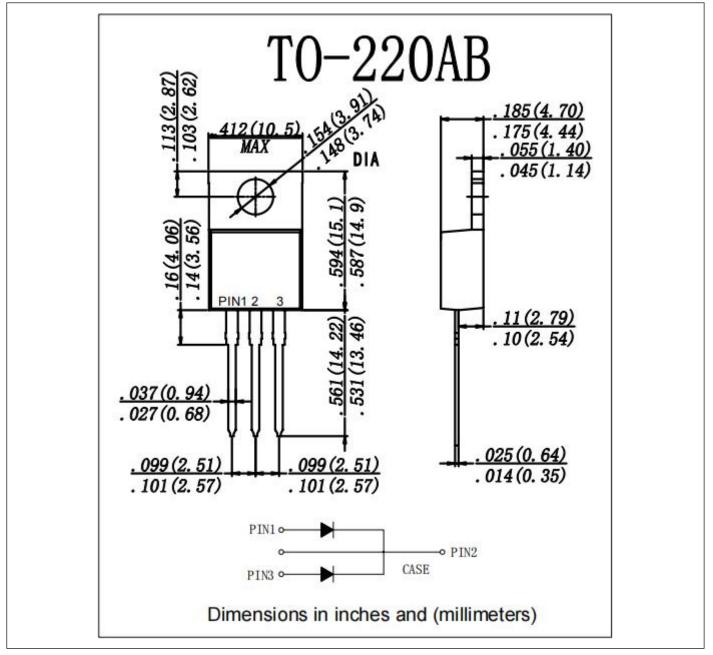
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Ordering Information (Example)

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.



