MBR2090CT THRU MBR20200CT

Schottky Diodes

Features

• High efficiency operation

RLIL&N

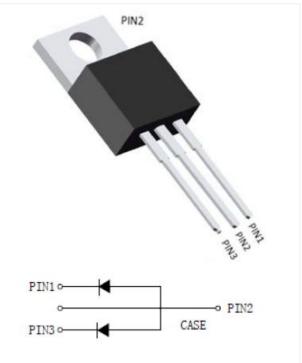
- Guard ring for enhanced ruggedness and long term reliablity
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Solder dip maximum peak of 275 °C /7s, per JESD 22-B106

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	Symbol U			MBR			
PARAMETER		Unit	Conditions	2090CT	20100CT	20150CT	20200CT
Repetitive Peak Reverse Voltage	VRRM	V		90	100	150	200
Average Rectified Output Current	lo	А	60HZ Half-sine wave, Resistance load, Tc(Fig.1)	20			
Surge(Nonrepetitive)Forward Current	I _{FSM}	Α	60HZ sine wave, 1 cycle, Ta=25℃	150			
Current Squared Time	I ² T	A ² S	1ms≤t < 8.3ms Tj =25℃,Rating of per diode	f 94			
Storage Temperature	T _{stg}	°C		-55 ~ +150			
Junction Temperature	Tj	Ĉ	IN DC Forward Mode-Forward Operations, without reverse bias, t ≤1 h (Fig. 1)①	-55 ~ +150			

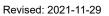
■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions		MBR			
	Cymbol				2090CT	20100CT	20150CT	20200CT
Peak Forward Voltage	V _{FM}	V	I _{FM} =10A		c	.8	0.9	0.95
Peak Reverse Current	I _{RRM1}	m۸	V _{RM} =V _{RRM}	Ta=25 ℃	0.05			
	I _{RRM2}	- mA		Ta=100℃	1			
Thermal Resistance	R _{0J-C}	°C/W	Between junction and case		2.0			

NOTES:

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



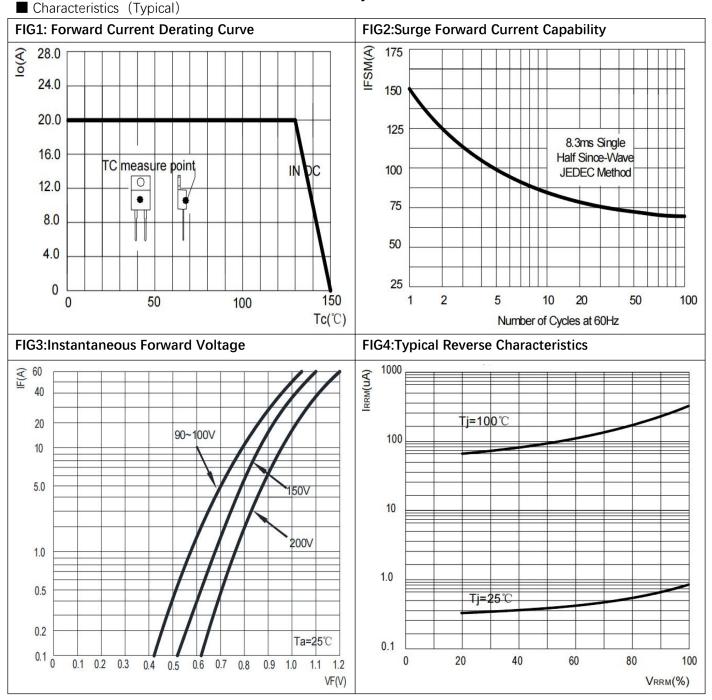




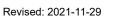


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Ordering Information (Example)

PREFERED			INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
MBR2090CT ~ MBR20200CT	TO-220AB	50	1000	5000	Tube	

Outline Dimensions

