

MBR20100 THRU MBR20200

Schottky Rectifier

Features

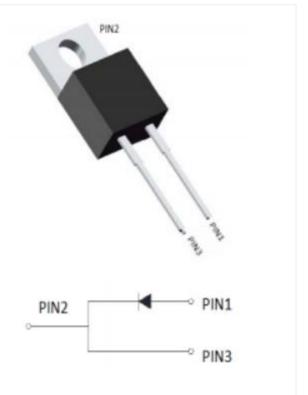
- High efficiency operation
- Guard ring for enhanced ruggedness and long term reliablity
- High purity,high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Solder dip maximum peak of 275 °C /7s, per JESD 22-B106

Typical Application

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

Mechanical Data

- Package: TO-220AC
 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	0	Unit		MBR20		
PARAMETER	Symbol		Conditions	100	150	200
Repetitive Peak Reverse Voltage	V _{RRM}	V		100	150	200
Average Rectified Output Current	Io	Α	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		
Storage Temperature	T _{stg}	$^{\circ}$ C			-55 ~ +150	
Junction Temperature	Tj	$^{\circ}$			-55 ~ +150	

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

PARAMETER	Cumbal	Unit	Conditions		MBR20		
PARAMETER	Symbol				100	150	200
Peak Forward Voltage	V _{FM}	V	I _{FM} =20A		100	150	200
Peak Reverse Current	I _{RRM1}	- mA	$V_{RM}=V_{RRM}$	Ta=25℃	0.1		
	I _{RRM2}			Ta=125℃	10		
Thermal Resistance	R өJ-C	°C/W	Between junction and case		2.01)		

NOTES:

Thermal resistance from junction to case per leg



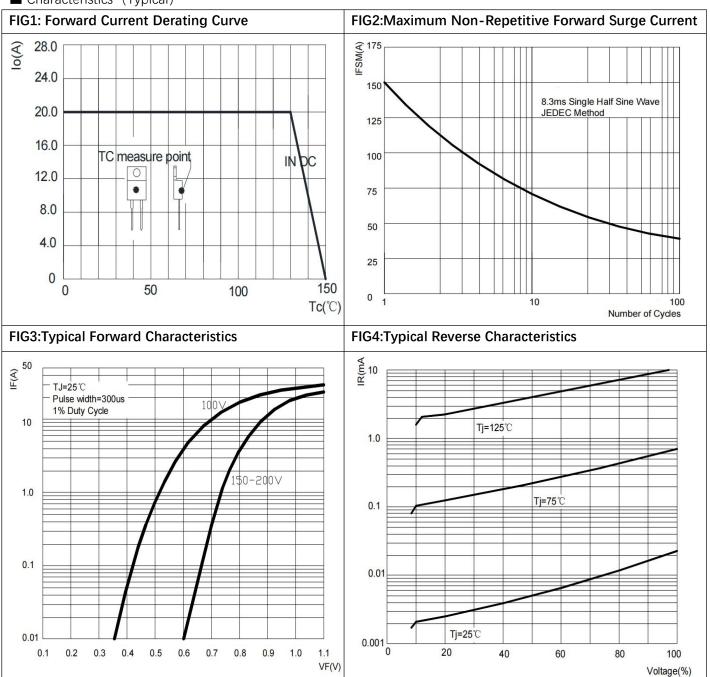




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■ Characteristics (Typical)



Revised: 2021-11-29





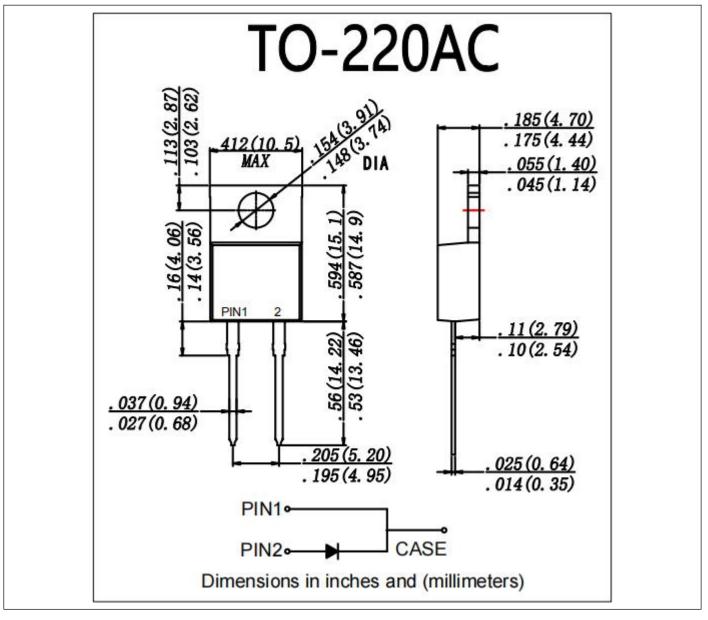


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■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR20100 ~ MBR20200	TO-220AC	50	1000	5000	Tube

■ Outline Dimensions



Revised: 2021-11-29



