

## MBR10200F Schottky Diodes

#### **Features**

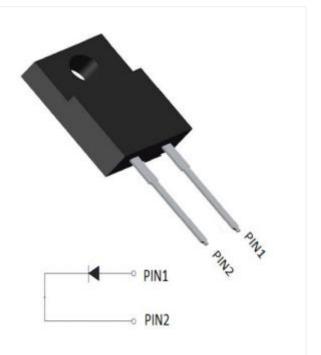
- High efficiency operation
- Guard ring for enhanced ruggedness and long term reliablity
- High purity,high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Solder dip maximum peak of 275 °C /7s, per JESD 22-B106

## **Typical Application**

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

### **Mechanical Data**

- Package: ITO-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)

PARAMETER	Symbol	Unit	Conditions	MBR10200F	
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	٧		200	
Average Rectified Output Current	Io	Α	60HZ Half-sine wave, Resistance load, Ta=25℃	10	
Surge(Nonrepetitive)Forward Current	I <sub>FSM</sub>	Α	60HZ sine wave, 1 cycle, Ta=25℃	150	
Current Squared Time	I <sub>2t</sub>	A <sup>2</sup> s	1ms≤t<8.3ms Tj=25℃,Rating of per diode	94	
Storage Temperature	T <sub>stg</sub>	$^{\circ}$		-55 ~ +150	
Junction Temperature	Tj	$^{\circ}$	IN DC Forward Mode-Forward Operations, without reverse bias, t ≤1 h (Fig. 1)①	-55 ~ <b>+</b> 150	

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

PARAMETER	Symbol	Unit	Conditions		MBR10200F
Peak Forward Voltage	V <sub>FM</sub>	V	I <sub>FM</sub> =10A		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℃	10
Thermal Resistance	R <sub>0J-C</sub>	°C/W	Between junction and case		2.0

### NOTES:

①Meets the requirement of IEC 61215 Ed.2 bypass diode thermal test

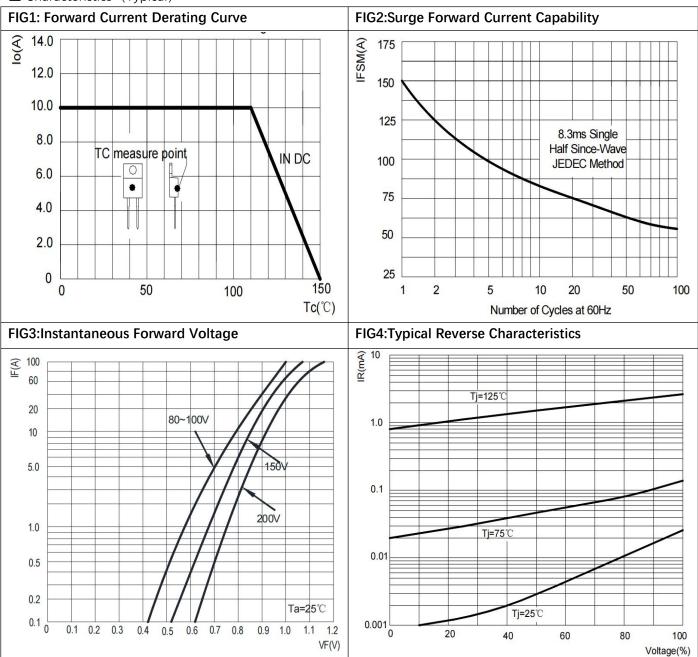






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## ■ Characteristics (Typical)



Revised: 2021-11-29



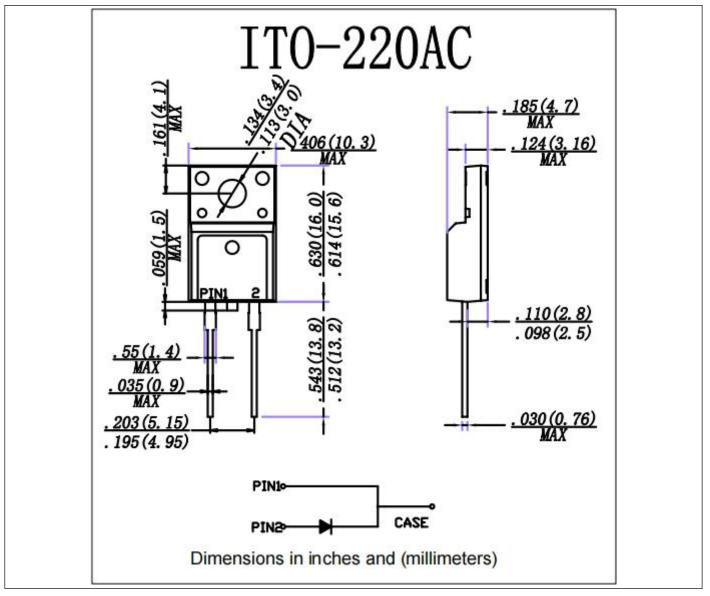


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## ■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR10200F	ITO-220AC	50	1000	5000	Tube

#### ■ Outline Dimensions



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