

MBR1080 THRU MBR10200

High Performance Schottky Diodes

Features

- High efficiency operation
- Low forward voltage drop
- 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

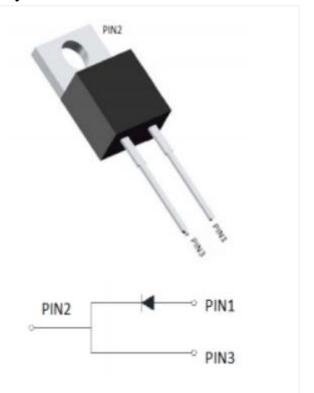
For use in switching power supplies, converters, freewheeling diodes and reverse battery protection.

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	Symbol	Unit	O a sa disti a sa a	MBR			
PARAMETER			Conditions	1080	10100	10150	10200
Repetitive Peak Reverse Voltage	V _{RRM}	V		80	100	150	200
Average Rectified Output Current	lo	Α	60HZ Half-sine wave, Resistance load, Tc(Fig.1)	10			
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°C,Rating of per diode	94			
Storage Temperature	T _{stg}	$^{\circ}$ C		-55 ~ + 150			
Junction Temperature	Tj	$^{\circ}$ 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		MBR			
PARAMETER	Syllibol				1080	10100	10150	10200
Peak Forward Voltage	V _{FM}	V	I _{FM} =	I _{FM} =10A		0.85		0.95
Peak Reverse Current	I _{RRM1}	mA	mA V _{RM} =V _{RRM}	Ta=25℃	0.05			
	I _{RRM2}			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 bypass diode thermal test



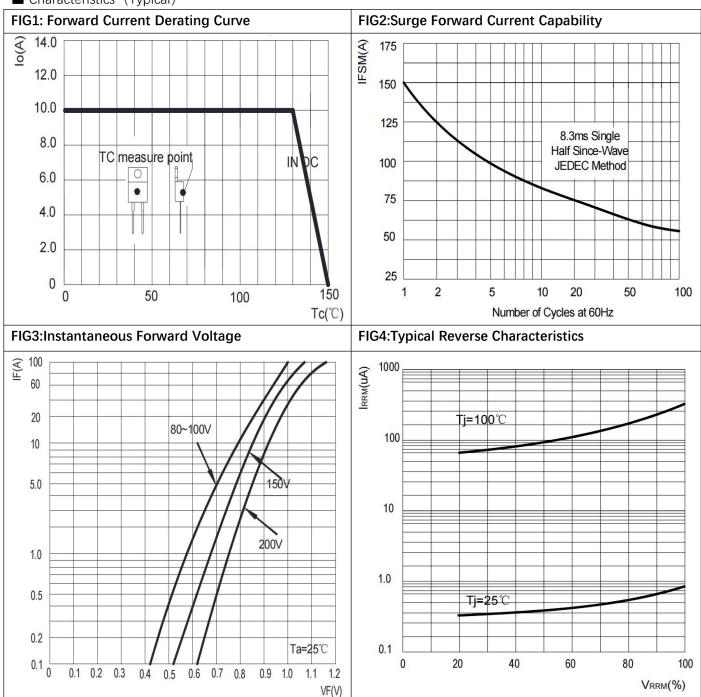




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■ Characteristics (Typical)



Revised: 2021-11-29







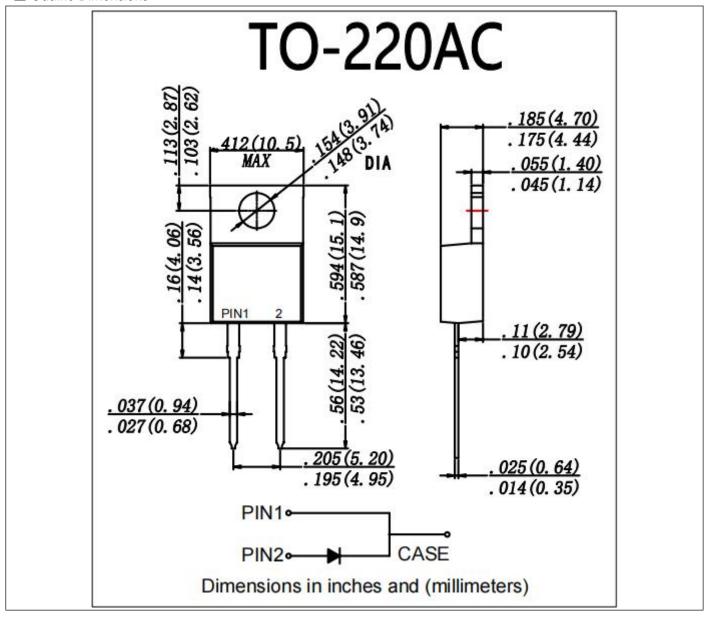
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■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR1080 ~ MBR10200	TO-220AC	50	1000	5000	Tube

Outline Dimensions



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