

MBR1590CT THRU MBR15200CT Schottky Diodes

Features

- Super-fast recovery time for high efficiency
- Glass passivated chip junction
- Low leakage current
- High forward surge capability

Typical Application

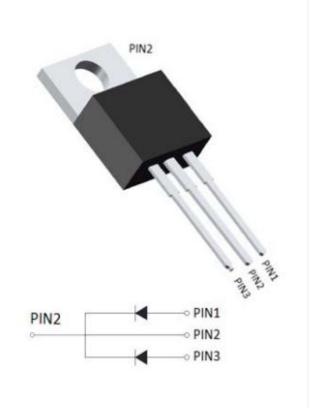
For use in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer, computer and telecommunication.

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		Unit	0 - 11 - 11 - 11 - 11	MBR			
PARAMETER	Symbol		Conditions	1590CT	15100CT	15150CT	15200CT
Repetitive Peak Reverse Voltage	V _{RRM}	V		90	100	150	200
Average Rectified Output Current	lo	Α	60HZ Half-sine wave, Resistance load, Tc(Fig.1)	15			
Surge(Nonrepetitive)Forward Current	I _{FSM}	Α	60HZ sine wave, 1 cycle, Ta=25℃	100			
Current Squared Time	I ² T	A ² S	1ms≤t < 8.3ms Tj =25°C,Rating of per diode	41			
Storage Temperature	T _{stg}	$^{\circ}$ 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		MBR			
PARAMETER	Syllibol				1590CT	15100CT	15150CT	15200CT
Peak Forward Voltage	V_{FM}	V	IF _M =7.5A		0.	.85	0.9	0.95
Peak Reverse Current	I _{RRM1}	mA	$V_{RM}=V_{RRM}$	Ta=25℃	0.05			
	I _{RRM2}			Ta=100℃	1			
Thermal Resistance	R _{θJ-С}	°C/W	Between junction and case		2.0			

Revised: 2021-11-29

NOTES:

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



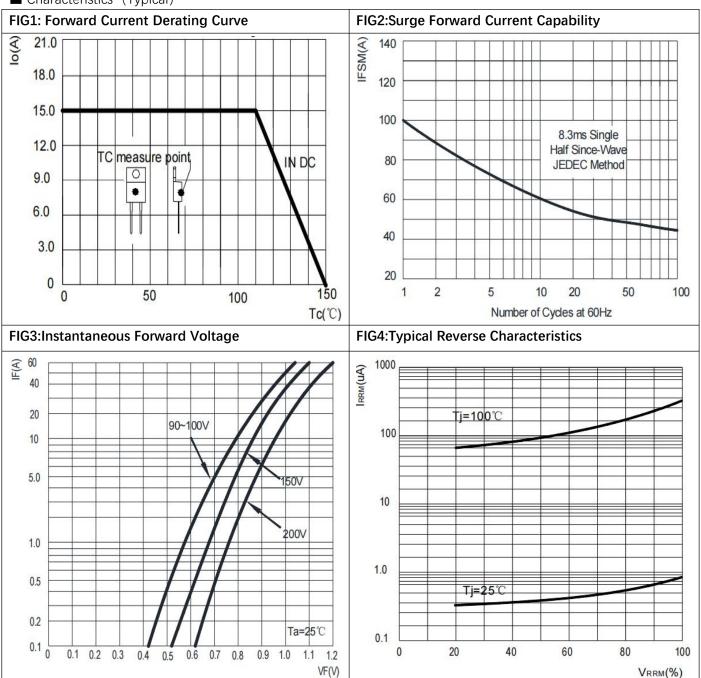




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■ Characteristics (Typical)



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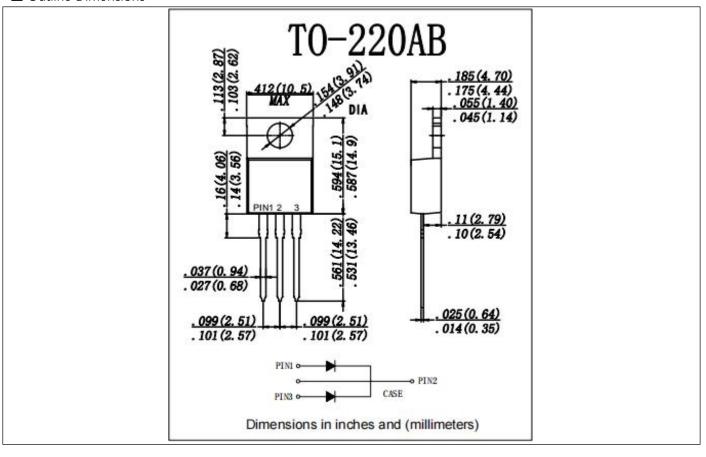


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■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR1590CT ~MBR15200CT	TO-220AB	50	1000	5000	Tube

■ Outline Dimensions



Revised: 2021-11-29



