

MBR3035CT THRU MBR30200CT

Schottky Diodes

Features

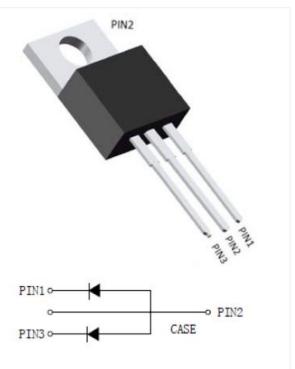
- High efficiency operation
- Guard ring for enhanced ruggedness and long term reliablity
- High purity,high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Solder dip maximum peak of 275 °C /7s, per JESD 22-B106

Typical Application

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

Mechanical Data

- Package: 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)

PARAMETER		Unit	Conditions		MBR30-CT								
	Symbol				40	45	50	60	80	90	100	150	200
Repetitive Peak Reverse Voltage	V _{RRM}	V		35	40	45	50	60	80	90	100	150	200
Average Rectified Output Current	lo	Α	60HZ Half-sine wave, Resistance load, Tc(Fig.1)	30									
Surge(Nonrepetitive)Forward Current	I _{FSM}	Α	60HZ sine wave, 1 cycle, Ta=25℃	200									
Current Squared Time	I ² T	A ² S	1ms≤t<8.3ms Tj =25°C,Rating of per diode	167									
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 ~ +155									

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

PARAMETER	Symbol	Unit	Condi	Conditions			MBR30-CT								
						40	45	50	60	80	90	100	150	200	
Peak Forward Voltage	V _{FM}	V	I _{FM} =15A			0.7		0.8		0.85		0.9	0.95		
Peak Reverse Current	I _{RRM1}	m 1	\/ -\/	Ta=25℃	0.2										
	I _{RRM2}	mA	V _{RM} =V _{RRM}	Ta=100℃		25		1	5	10					
Thermal Resistance	R өJ-С	°C/W	Between junction and case			2.0									

Revised: 2021-11-29

NOTES:

Thermal resistance from junction to case per leg with heat-sink size of 2"x3"x0.25"A-L plate

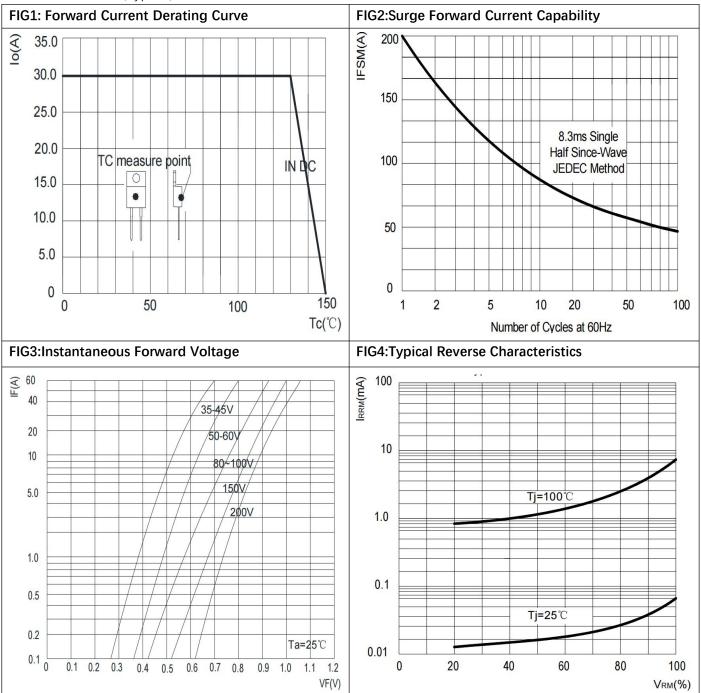






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■ Characteristics (Typical)



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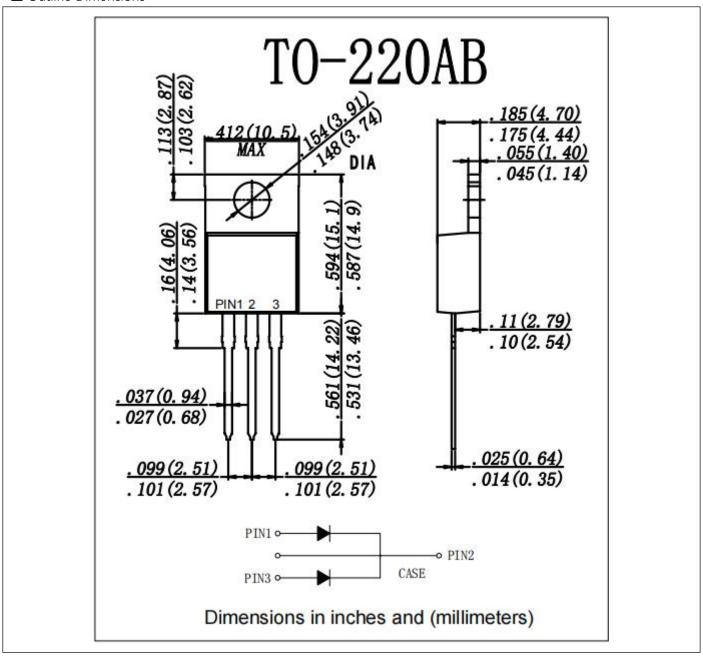


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■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE		
MBR3035CT~MBR30200CT	TO-220AB	50	1000	5000	Tube		

■ Outline Dimensions



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