

Schottky Diodes



Features

- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

Typical applications are 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:** As marked

■Maximum Ratings (T_a=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBR30100CT	MBR30150CT	MBR30200CT
Device marking code			MBR30100CT	MBR30150CT ^{IQ}	^A MBR30200CT

Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T _a =25	I _{FSM}	A	250		
Current Squared Time @1ms≤t<8.3ms T _j =25	I ² t	A ² s	176		
Storage Temperature	T _{stg}		-55 ~ +175		
Junction Temperature	T _j		-55 ~ +175		

■Electrical Characteristics T_a=25 °C Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR30100CT	MBR30150CT	MBR30200CT
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =15.0A	0.8	0.85	0.9
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	mA	V _{RM} =V _{RRM} T _a =25	0.1		
	I _{RRM2}		V _{RM} =V _{RRM} T _a =125	20		

Note1:Pulse test:300uS pulse width,1% duty cycle

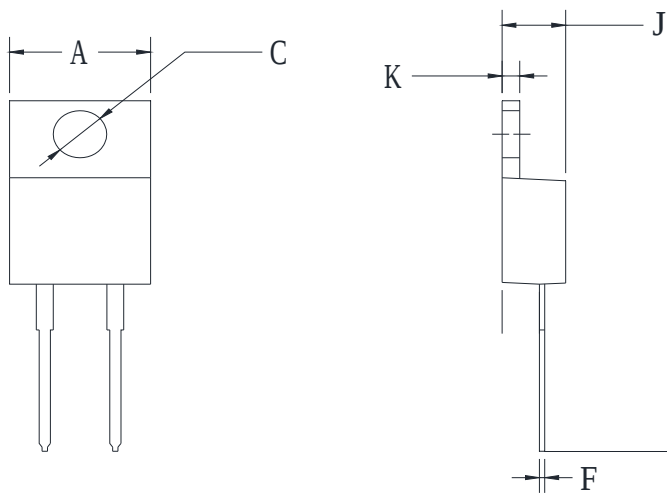
Note2:Pulse test:pulse width 40mS

MBR30100CT THRU MBR30200CT



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■Outline Dimensions





MBR30100CT THRU MBR30200CT

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