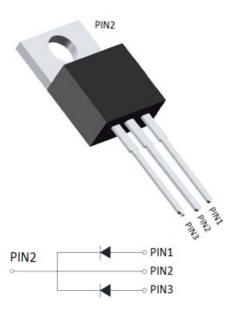


Schottky Diodes



Features

- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength 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 (Ta=25°C Unless otherwise specified)

= maximum (autilgs (1a 25 6 6 most state) most specified)				
PARAMETER	SYMBOL	UNIT	MBR2060CTS	
Device marking code			MBR2060CTS	
Repetitive Peak Reverse Voltage	V_{RRM}	V	60	
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25℃	Io	А	20	
Surge(Non-repetitive)Forward Current @60Hz half sine-wave,1 cycle, Ta=25℃	I _{FSM}	А	150	
Current Squared Time @1ms≤t<8.3ms Tj=25℃,	l ² t	A ² s	94	
Storage Temperature	Tstg	°C	-55 ~ +150	
Junction Temperature	Tj	°C	-55 ~ + 150	

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR2060CTS
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	I _{FM} =10.0A	0.75
Maximum DC reverse current	I _{RRM1}	mA	V _{RM} =V _{RRM} Ta=25℃	0.2
at rated DC blocking voltage per diode	I _{RRM2}		V _{RM} =V _{RRM} Ta=125℃	50

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

Note2:Pulse test:pulse widh 40mS

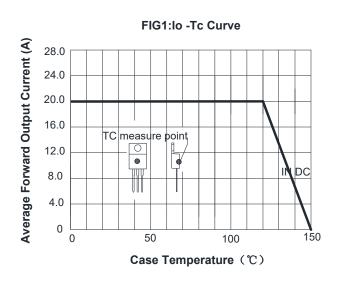
Thermal Characteristics $(T_a=25^{\circ}\mathbb{C} \text{ Unless otherwise specified})$

PARAMETER		SYMBOL	UNIT	MBR2060CT
Thermal Resistance	Between junction and case	RθJ-C	°C/W	2.0

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR2060CTS	Approximate 1.9	50	1000	5000	Tube

■Characteristics (Typical)



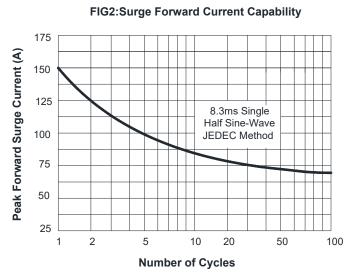
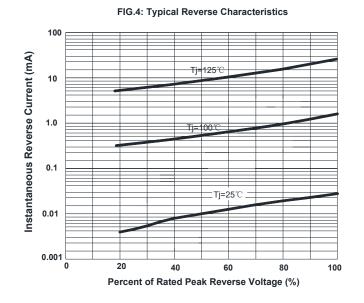
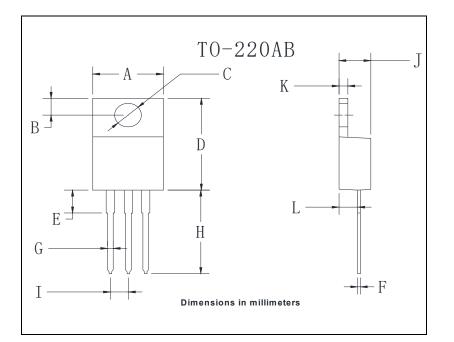


FIG3: Forward Voltage





■Outline Dimensions



TO-220AB				
Dim	Min	Max		
Α	9.95	10.35		
В	2.55	2.95		
С	3.8	4.0		
D	14.95	15.25		
E	3.75	4.25		
F	0.26	0.5		
G	0.68	0.94		
Н	13.4	13.9		
I	2.35	2.65		
J	4.38	4.78		
K	1.14	1.4		
L	2.37	2.79		



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