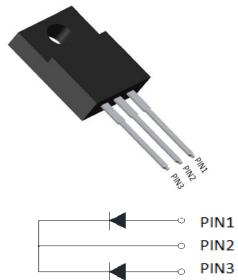




Schottky Diodes



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: ITO-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 Natings (1a 20 0 cmoss otherwise specimes)				
PARAMETER	SYMBOL	UNIT	MBR20300FCT	
Device marking code			MBR20300FCT	
Repetitive Peak Reverse Voltage	VRRM	V	300	
Average Rectified Output Current @60Hz sine wave, R-load, T _a =25℃	lo	А	20	
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T_a =25°C	IFSM	А	200	
Current Squared Time @1ms≤t<8.3ms Tj=25℃	l ² t	A ² s	167	
Storage Temperature	T _{stg}	$^{\circ}$ C	-55 ~ + 150	
Junction Temperature	Tj	°C	-55 ~ + 150	

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR20300FCT
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=10.0A	0.975
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1	mA	VRM=VRRM T _a =25℃	0.05
	IRRM2		VRM=VRRM T _a =100℃	10

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

Note2:Pulse test:pulse widh 40mS

MBR20300FCT

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

PA	RAMETER	SYMBOL	UNIT	MBR20300FCT
Thermal Resistance	Between junction and case	R _θ _{J-C}	°C M	4.0

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR20300FCT	Approximate 1.6	50	1000	5000	Tube

■Characteristics (Typical)

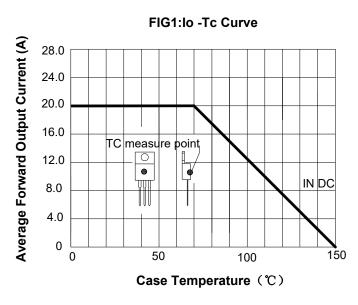
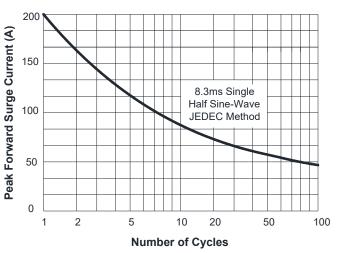
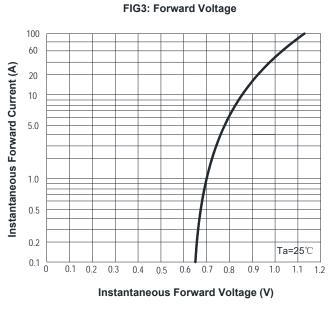
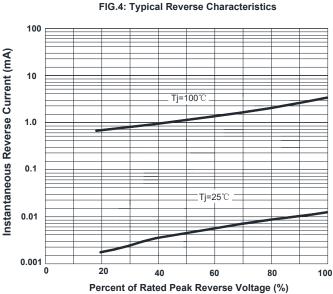


FIG2:Surge Forward Current Capability



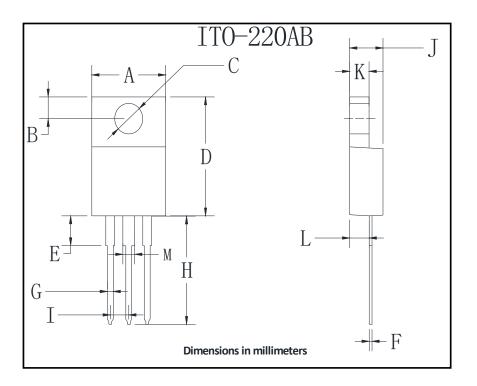




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■Outline Dimensions



ITO-220AB				
Dim	Min	Max		
Α	9.8	10.2		
В	2.25	2.75		
С	2.95	3.45		
D	14.75	15.25		
Е	3.05	3.95		
F	0.45	0.75		
G	0.45	0.75		
Н	13.4	14.2		
I	2.35	2.75		
J	4.3	4.8		
K	2.58	2.82		
L	2.58	2.82		
М	1.47	1.77		

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