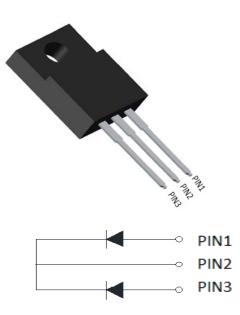
MBR3080FCT THRU MBR30200FCT



Schottky Diodes

Features

- High frequency operation
- Low forward voltage drop
- 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)

PARAMETER	SYMBOL	UNIT	MBR3080FCT	MBR30100FCT	MBR30120FCT	MBR30150FCT	MBR30200FCT
Device marking code			MBR3080FCT	MBR30100FCT	MBR30120FCT	MBR30150FCT	MBR30200FCT
Repetitive Peak Reverse Voltage	VRRM	V	80	100	120	150	200
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25°C	IO	А	30				
Surge(Non-repetitive)Forward Current @60H _Z half sine-wave, 1 cycle, Ta=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}	°C	-55 ~ +150				
Junction Temperature	Тј	°C	-55 ~ +150				

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR3080FCT	MBR30100FCT	MBR30120FCT	MBR30150FCT	MBR30200FCT
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=15.0A	0.85		C	1.9	0.95
Maximum DC reverse current	IRRM1		VRM=VRRM T _a =25℃			0.1		
at rated DC blocking voltage per diode	IRRM2	mA	VRM=VRRM T _a =100℃	20				

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MBR3080FCT THRU MBR30200FCT

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

PAR	AMETER	SYMBOL	UNIT	MBR3080FCT	MBR30100FCT	MBR30120FCT	MBR30150FCT	MBR30200FCT
Thermal Resistance	Between junction and case	RθJ₋C	°C /W			4.0		

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR3080FCT THRU MBR30200FCT	Approximate 1.6	50	1000	5000	Tube

Characteristics (Typical)

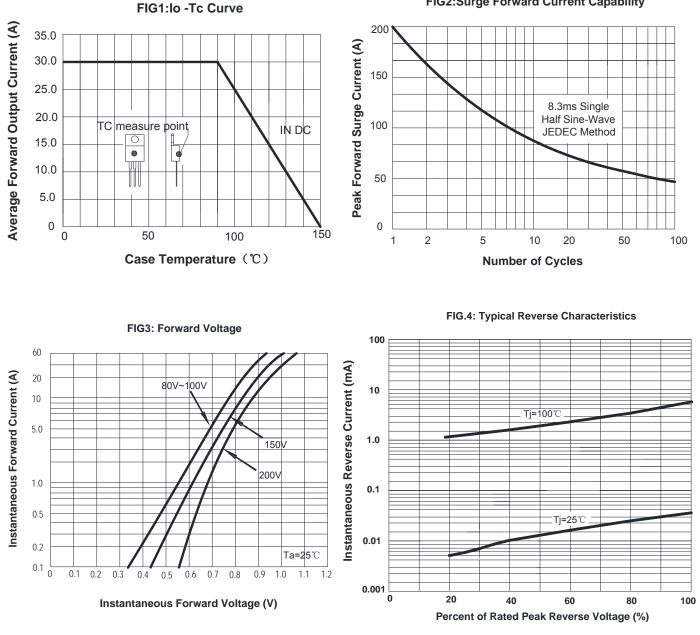
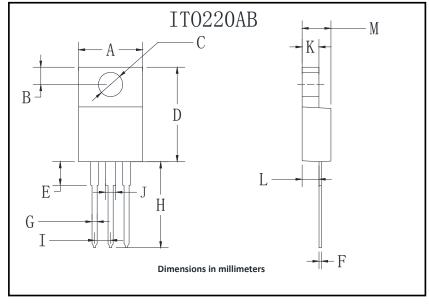


FIG2:Surge Forward Current Capability



Outline Dimensions



ITO-220AB				
Dim	Min	Max		
А	9.7	10.7		
В	2.15	3.25		
С	2.6	3.8		
D	14.4	15.9		
E	3.1	4.5		
F	0.4	0.8		
G	0.4	0.8		
Н	12.7	14.2		
I	1.80	2.95		
J	1.4	1.8		
К	2.1	3.56		
L	2.1	3.2		
М	3.9	5.1		

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