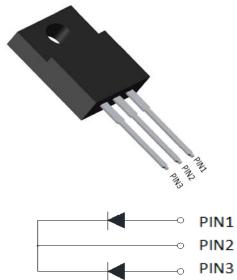
MBR20100FCT THRU MBR20200FCT







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)

PARAMETER	SYMBOL	UNIT	MBR20100FCT	MBR20150FCT	MBR20200FCT
Device marking code			MBR20100FCT	MBR20150FCT	MBR20200FCT
Repetitive Peak Reverse Voltage	VRRM	V	100	150	200
Average Rectified Output Current @60Hz sine wave, R-load, T_a =25 $^{\circ}$ C	Ю	Α	20		
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T_a =25 $^{\circ}$ C	IFSM	Α	150		
Current Squared Time @1ms≤t<8.3ms Tj=25℃,	I ² t	A ² s	94		
Storage Temperature	T _{stg}	$^{\circ}$ C	-55 ~ +175		
Junction Temperature	Tj	$^{\circ}$	-55 ~ +175		

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR20100FCT	MBR20150FCT	MBR20200FCT	
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=10.0A	0.8	0.85	0.9	
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1	mA	VRM=VRRM T _a =25℃	0.1			
	IRRM2		VRM=VRRM T _a =125℃	20			

MBR20100FCT THRU MBR20200FCT

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

PA	RAMETER	SYMBOL	UNIT	MBR20100FCT	MBR20150FCT	MBR20200FCT
Thermal Resistance	Between junction and case	R _{θJ-C}	°CMV		4.0	

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR20100FCT THRU MBR20200FCT	Approximate 1.6	50	1000	5000	Tube

■Characteristics (Typical)

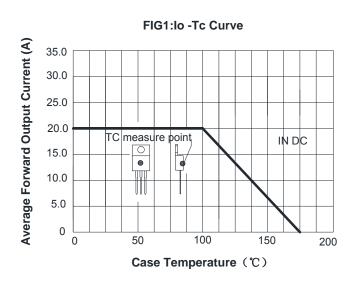


FIG2:Surge Forward Current Capability

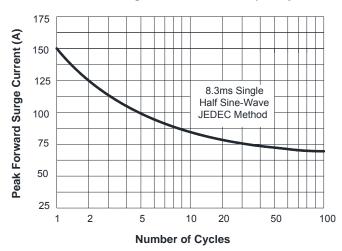


FIG3: Forward Voltage

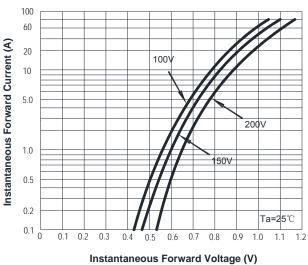
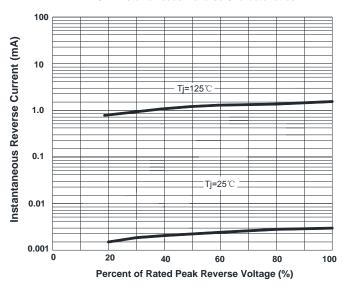


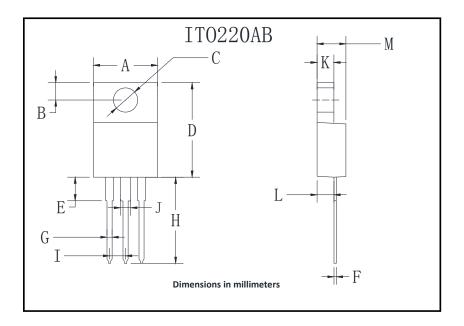
FIG.4: Instantaneous Reverse Characteristics





MBR20100FCT THRU MBR20200FCT

■Outline Dimensions



ITO-220AB					
Dim	Min	Max			
Α	9.7	10.7			
В	2.15	3.25			
С	2.6	3.8			
D	14.4	15.9			
Е	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			
K	2.1	3.56			
L	2.1	3.2			
M	3.9	5.1			

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangjie.com, or consult your nearest Yangjie's sales office for further assistance.