

ITO-220AB Axial Schottky Barrier Rectifier

Features

- Low power loss,high efficiency
- High forward surge current capability
- High reliability
- High current capability

Reverse Voltage
40-200 V
Forward Current
30 Ampere

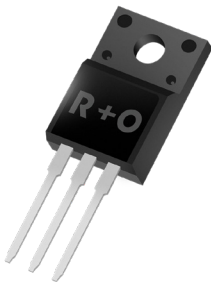
Applications

For use in low voltage high frequency inverters, free wheeling,DC/DC converters, and polarity protection applications.

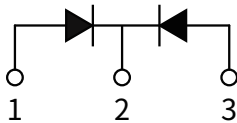
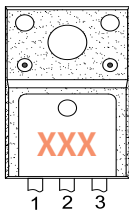
Mechanical Data

- Case: ITO-220AB
Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026

ITO-220AB



Function Diagram



Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBR 3040FCT	MBR 3045FCT	MBR 3050FCT	MBR 3060FCT	MBR 3080FCT	MBR 30100FCT	MBR 30150FCT	MBR 30200FCT
Device marking code			MBR 3040FCT	MBR 3045FCT	MBR 3050FCT	MBR 3060FCT	MBR 3080FCT	MBR 30100FCT	MBR 30150FCT	MBR 30200FCT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	V	40	45	50	60	80	100	150	200
Maximum RMS Voltage	V _{RMS}	V	28	31.5	35	42	56	70	105	140
Maximum DC blocking Voltage	V _{DC}	V	40	45	50	60	80	100	150	200
Maximum Average Forward Rectified Current @60Hz sinewave, Resistance load,TL (Fig.1)	I _{F(AV)}	A	30							
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I _{FSM}	A	200							
Storage temperature	T _{stg}	°C	-55 ~ +150							-55 ~ +175
Junction temperature	T _j	°C	-55 ~ +150							-55 ~ +175
Typical Thermal Resistance	R _{θJC}	°C /W	1.4							

● Electrical Characteristics (Ta=25°C Unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	MBR3040FCT	MBR3045FCT	MBR3050FCT	MBR3060FCT	MBR3080FCT	MBR30100FCT	MBR30150FCT	MBR30200FCT
Maximum instantaneous forward voltage	$I_F=15A$	V_F	V	0.65		0.75		0.85		0.95	
Maximum DC reverse currentat rated DC blocking voltage	$V_R=V_{DC}, T_J=25^{\circ}C$	I_{R1}	mA	0.05							
	$V_R=V_{DC}, T_J=125^{\circ}C$	I_{R2}		20							

● Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)

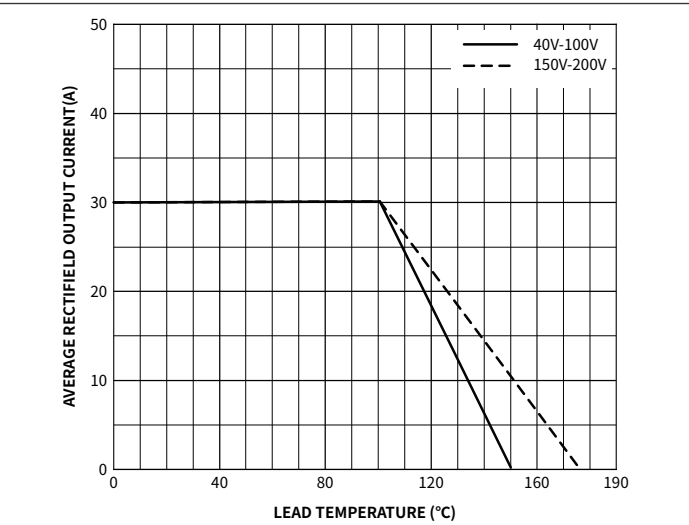


Fig.1 Forward Current Derating Curve

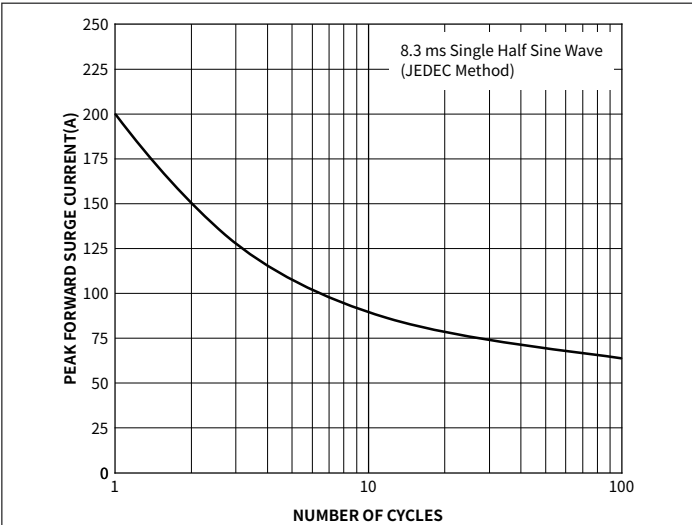


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

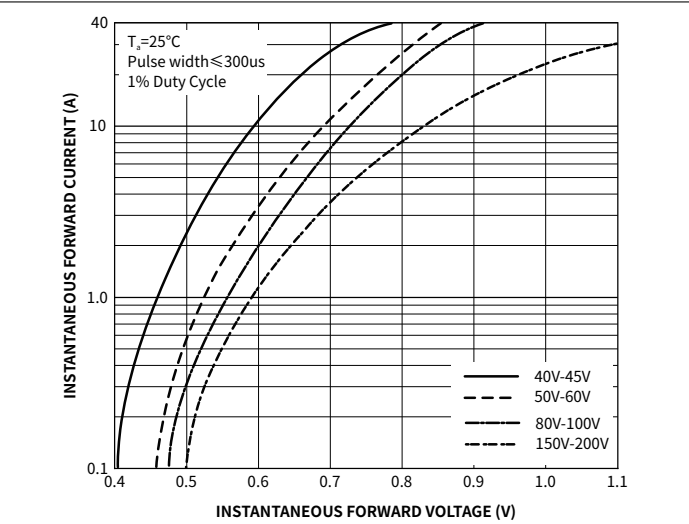


Fig.3 Typical Forward Voltage

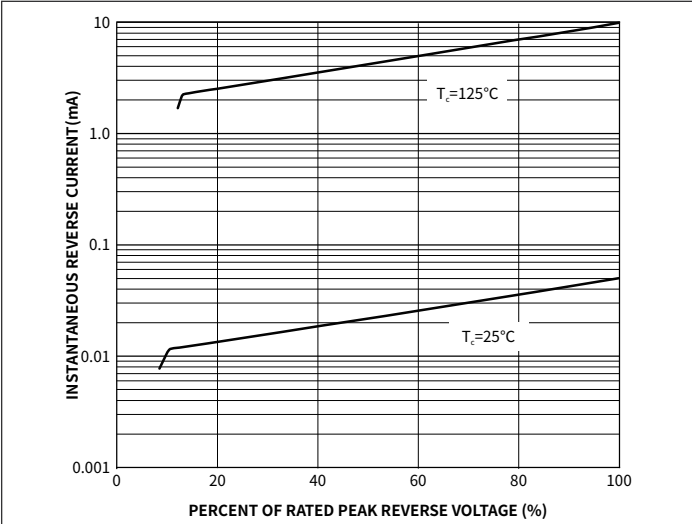


Fig.4 Typical Reverse Characteristics

MBR3040FCT THRU MBR30200FCT

AXIAL SCHOTTKY BARRIER RECTIFIER

● Ordering Information

PACKAGE	UNIT WEIGHT(g)	TUBE(pcs)	BOX(pcs)	CARTON(pcs)
ITO-220AB	2.26	50	1000	5000

● Package Outline Dimensions (ITO-220AB)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	14.9	16.0	0.587	0.630
B	9.90	10.40	0.390	0.409
C	6.45	7.15	0.254	0.281
D	7.85	8.75	0.309	0.344
E	2.80	3.50	0.110	0.138
F	12.8	-	0.504	
G	1.10	1.4	0.043	0.055
H	2.35	2.65	0.093	0.104
I	0.45	0.95	0.018	0.037
J	0.40	0.65	0.016	0.026
K	4.35	4.75	0.171	0.187
L	2.55	3.15	0.100	0.124
M	2.45	2.7	0.096	0.106
O	Φ3	Φ3.5	Φ3	Φ3.5