

ITO-220AB Axial Schottky Barrier Rectifier

● Features

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

● Applications

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

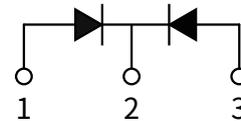
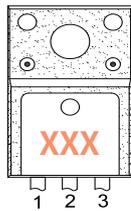
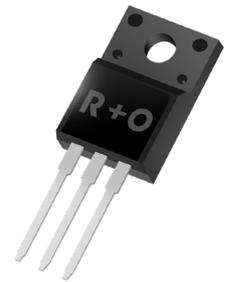
● Mechanical Data

- 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

● Function Diagram

Reverse Voltage
200 V
Forward Current
40 Ampere

ITO-220AB



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

PARAMETER	SYMBOL	UNIT	MBR 40200FCT
Device marking code			MBR 40200FCT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	200
Maximum RMS Voltage	V_{RMS}	V	140
Maximum DC blocking Voltage	V_{DC}	V	200
Maximum Average Forward Rectified Current Total	$I_{F(AV)}$	A	40
Maximum Average Forward Rectified Current Per diode	$I_{F(AV)}$	A	20
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I_{FSM}	A	275
Storage temperature	T_{stg}	°C	-55 ~ +150
Junction temperature	T_j	°C	-55 ~ +150
Typical Thermal Resistance	$R_{\theta JC}$	°C /W	4

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

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	MBR 40200FCT
Maximum instantaneous forward voltage	$I_F=20A$	V_F	V	0.95
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}, T_A=25^\circ C$	I_{R1}	mA	0.1
	$V_R=V_{DC}, T_A=100^\circ C$	I_{R2}		20

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

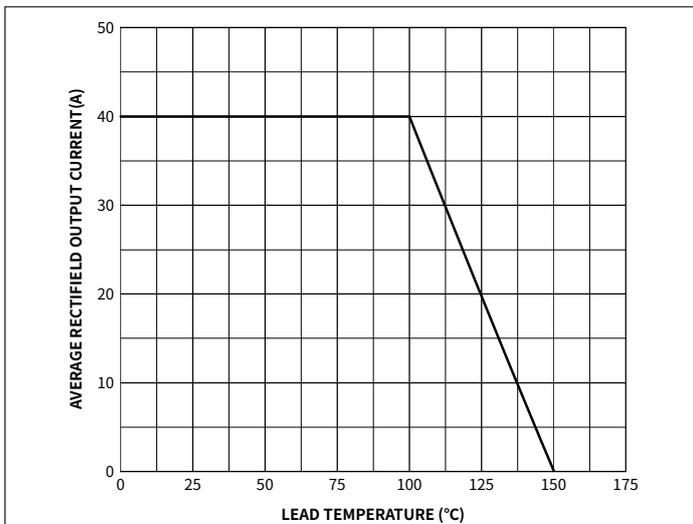


Fig.1 Forward Current Derating Curve

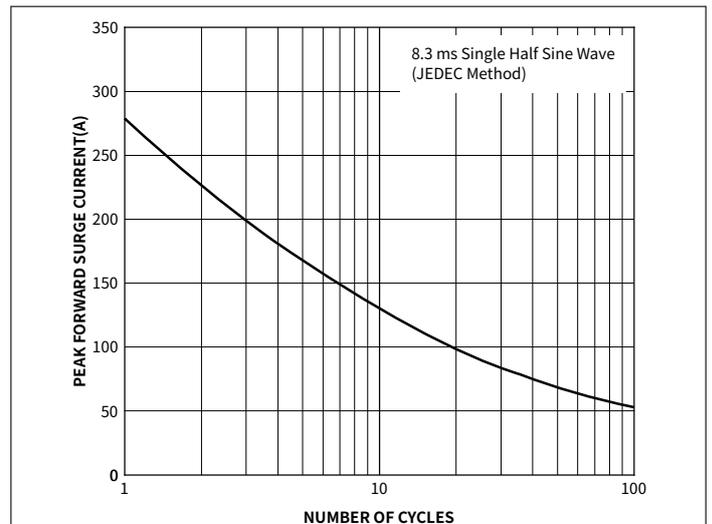


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

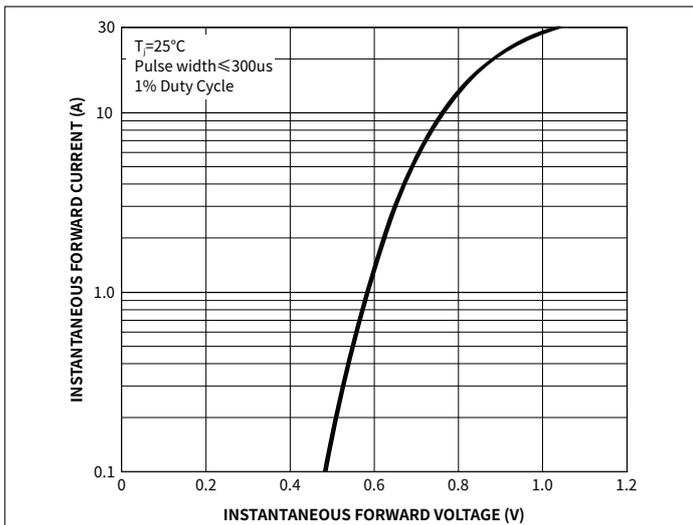


Fig.3 Typical Forward Voltage

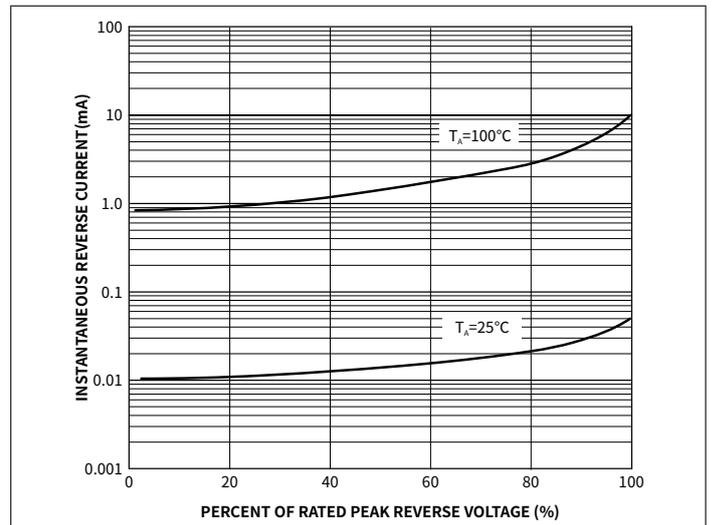


Fig.4 Typical Reverse Characteristics

MBR40200FCT

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