Schottky Diodes

Features

enhanced mechanical strength and moisture resistance

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 (T_a=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBR10F100FCT	MBR10F150FCT	MBR10200FCT
Device marking code			MBR10F100FCT	MBR10F150FCT	MBR10200FCT
Repetitive Peak Reverse Voltage	V_{RRM}	V	100	150	200
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25℃	I_O	A	10		
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25℃	I_{FSM}	A	120		
Current Squared Time ℃	I^2t	A^2s	60		
Storage Temperature	Tstg	℃	-55 ~ +175		
Junction Temperature	Tj	℃	-55 ~ +175		

Electrical Characteristics (T_a=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS

Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR10F100FCT THRU MBR10F200FCT	Approximate 1.6	50	1000	5000	Tube

Characteristics (Typical)

FIG1:Io -Tc Curve

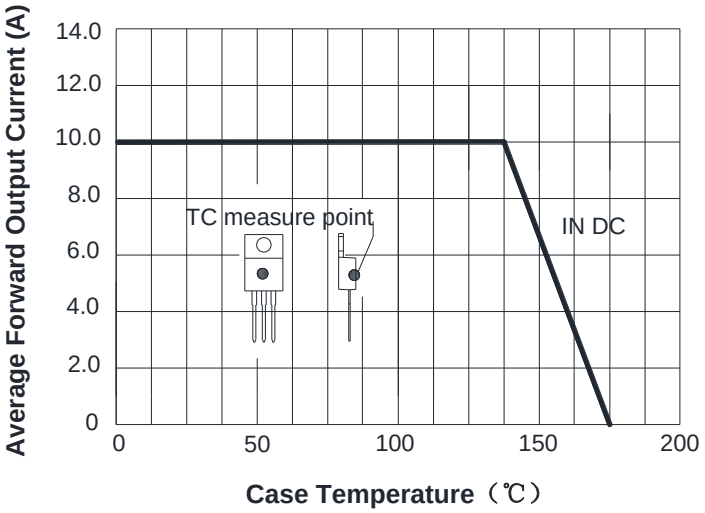
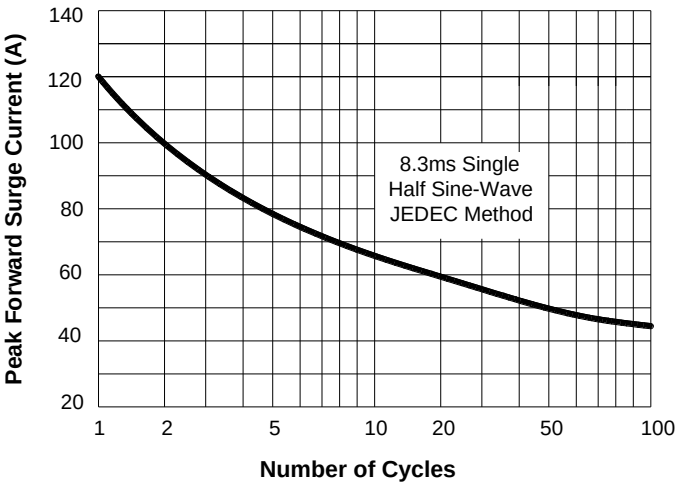


FIG2:Surge Forward Current Capability



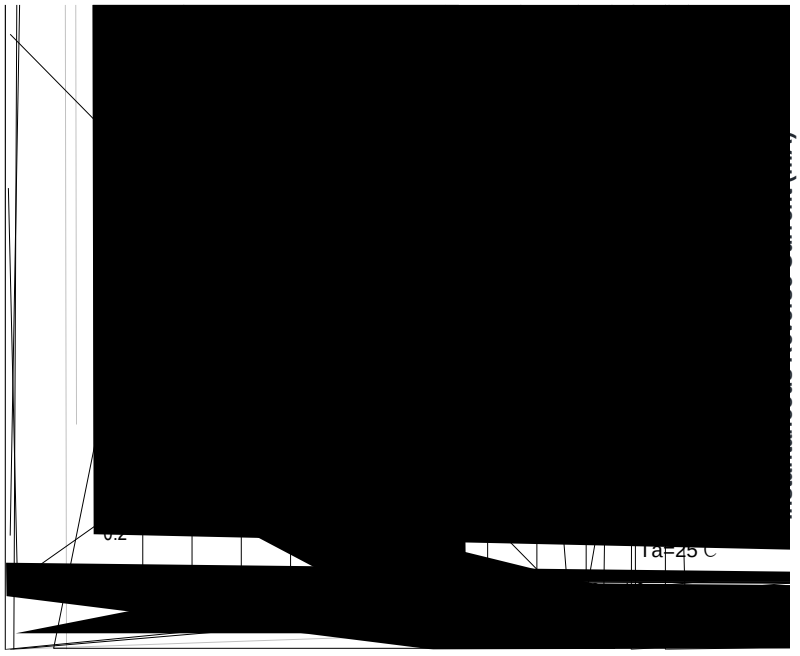
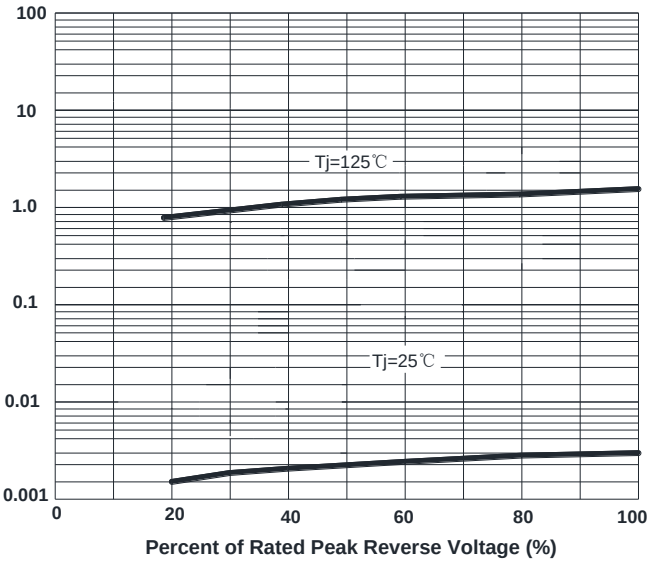
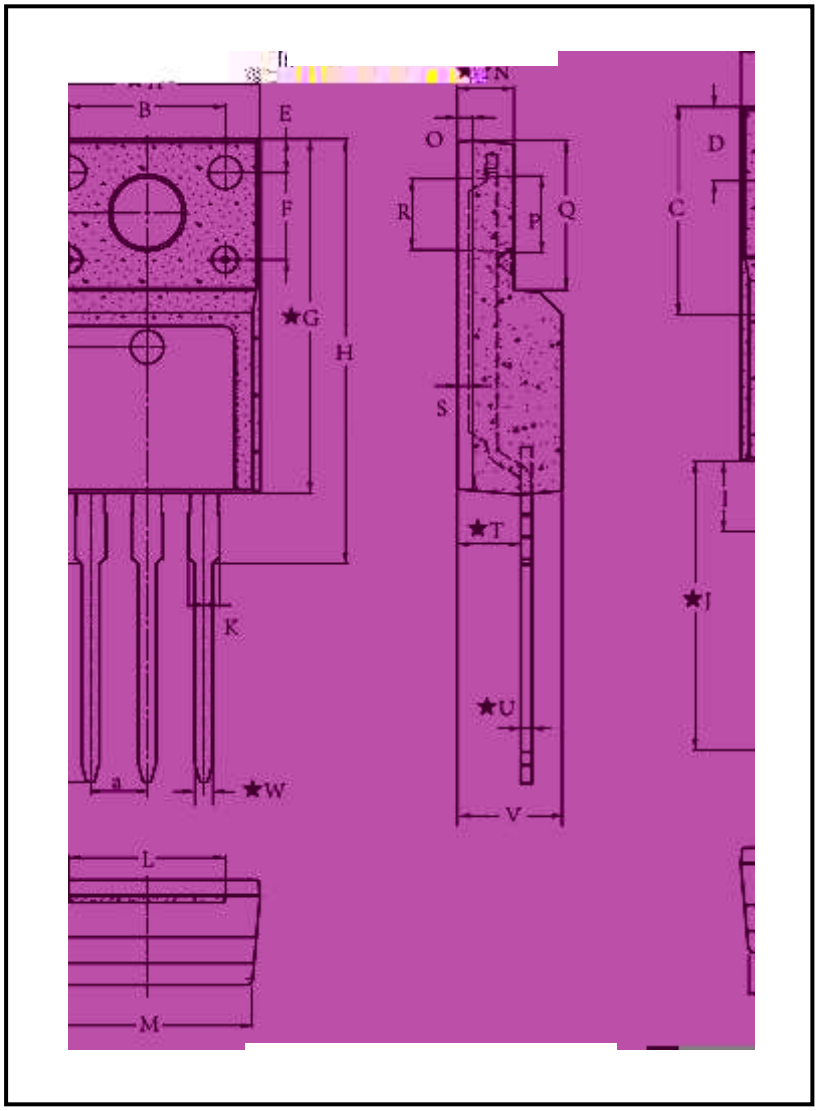


FIG.4: Instantaneous Reverse Characteristics



Outline Dimensions



ITO-220AB (W5094)		
Dim	Min	Max
A	10.03	10.23
B	6.90	7.10
C	9.21	9.41
D	3.20	3.40
E	1.40	4.00
F	3.8	0.75
G	15.72	16.02
H	TYP 19.05	
I	TYP 3.18	
J	12.65	13.25
K	1.30	1.50
L	6.50	7.50
M	9.23	9.63
N	2.44	2.64
O	TYP 0.7	
P	3.35	3.55
Q	6.58	6.78
R	3.08	3.28
S	TYP 0.52	
T	2.75	2.95
U	0.40	0.60
V	4.50	4.90
W	0.71	0.91
a	TYP 2.54	