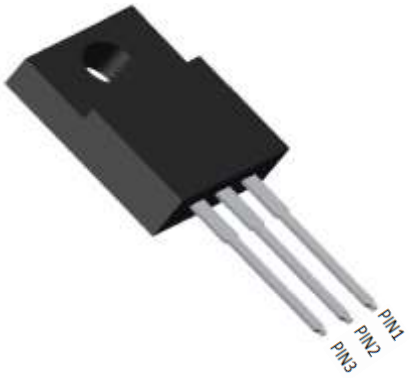
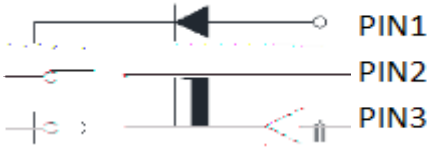
Schottky Diodes





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	MBR10100FCT	MBR10150FCT	MBR10200FCT
Device marking code			MBR10100FCT	MBR10150FCT	MBR10200FCT
Repetitive Peak Reverse Voltage	V_{RRM}	V	100	150	200
Average Rectified Output Current @60Hz sine wave, R-load, Tc(FIG.1)	I_O	A	10		
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T_a=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	MBR10100FCT	MBR10150FCT	MBR10200FCT
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	I_{FM}=5.0A	0.8	0.85	0.9
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	mA	$V_{RM}=V_{RRM}$ Ta=25℃	0.1		
	I_{RRM2}		$V_{RM}=V_{RRM}$ Ta=125℃	20		

Note1:Pulse test:300uS pulse widh,1% duty cycle

Note2:Pulse test:pulse widh 40mS

Thermal Characteristics T_a=25 Unless otherwise specified

PARAMETER		SYMBOL	UNIT	MBR10100FCT	MBR10150FCT	MBR10200FCT
Thermal Resistance	Between junction and case	R_{J-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
MBR1080FCT THRU MBR10200FCT	Approximate 1.6	50	1000	5000	Tube

Characteristics (Typical)

FIG1:Io -Tc Curve

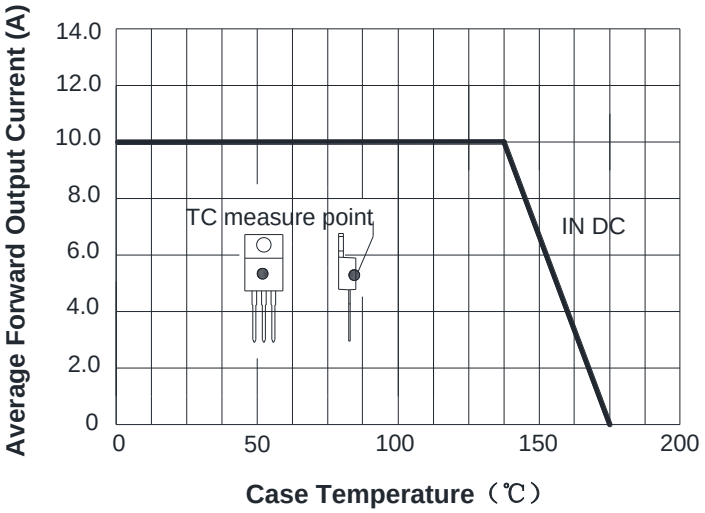
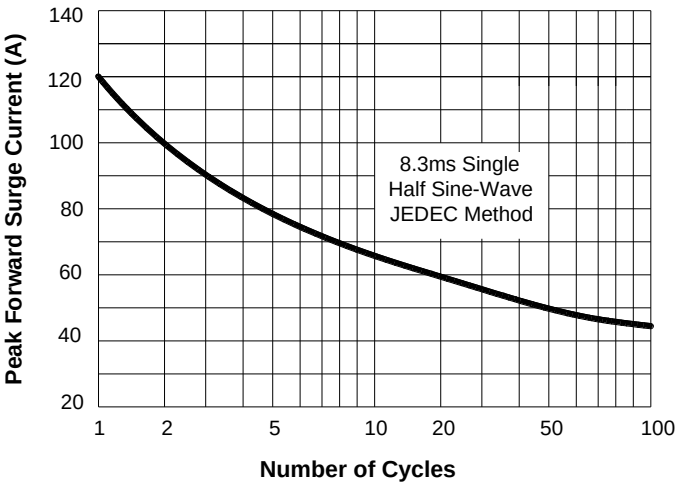


FIG2:Surge Forward Current Capability



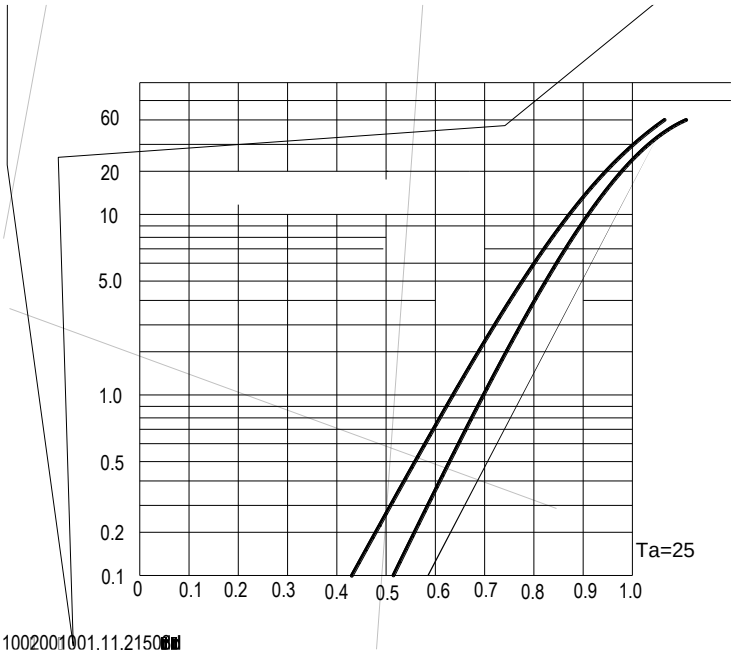
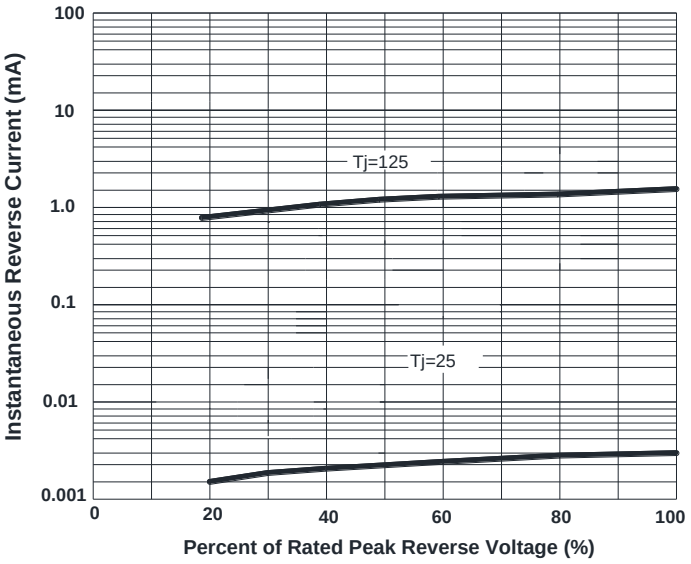
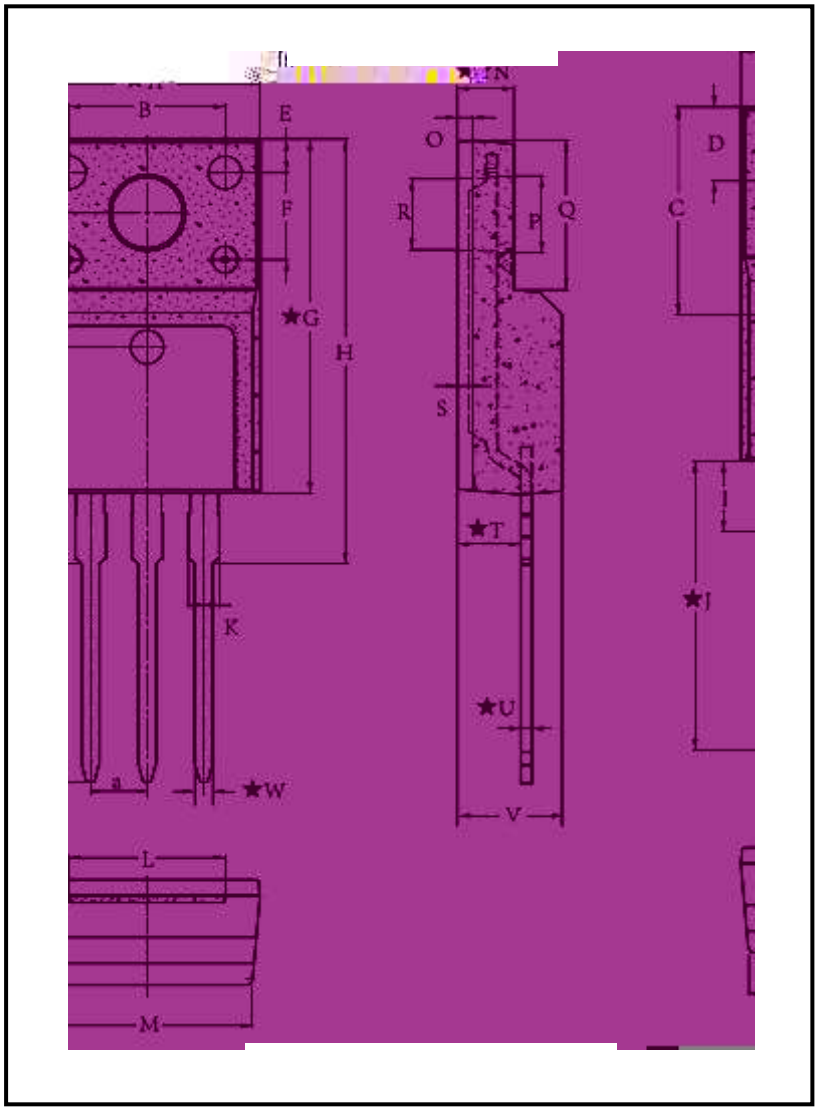


FIG.4: Instantaneous Reverse Characteristics



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	

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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.

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