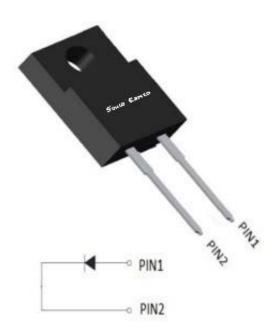


Schottky Diodes



Features

- High frequency operation
- Low forward voltage drop
- 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-220AC

Molding compound meets UL 94 V-0 flammability

rating, ·

• 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	MBRL5100FA
Device marking code			MBRL5100FA
Repetitive Peak Reverse Voltage	VRRM	V	100
Average Rectified Output Current @60Hz sine wave, R-load, Tc=135℃	Ю	Α	5
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25°C	IFSM	Α	100
Current Squared Time @1ms≤t≤8.3ms Tj=25°C,	l²t	A ² s	41.5
Storage Temperature	T _{stg}	°	-55 ~ +150
Junction Temperature	Tj	°C	-55 ~ + 150

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

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRL5100FA		
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=5.0A	0.75		
Maximum DC reverse current	IRRM1	mA	VRM=VRRM Ta=25°C	0.5		
at rated DC blocking voltage per diode	IRRM2		VRM=VRRM Ta=125℃	20		

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

Note2:Pulse test:pulse widh 40mS

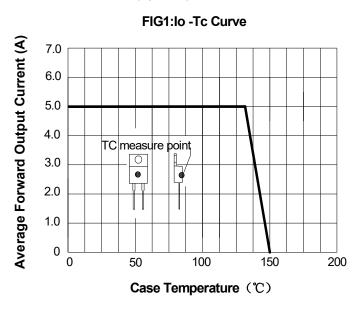


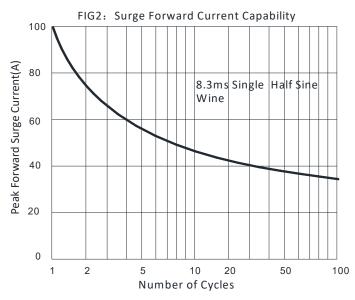
PARA	PARAMETER		UNIT	MBRL5100FA	
Thermal Resistance	Between junction and case	R ₀ J-C	°CW	4.0	

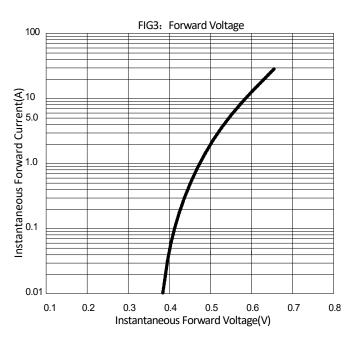
■Ordering Information (Example)

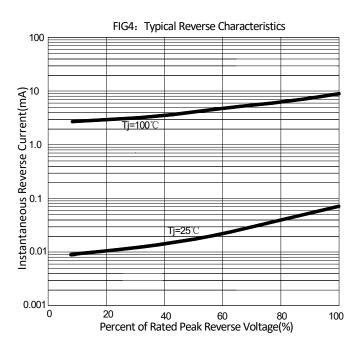
PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRL5100FA	Approximate 1.6	50	1000	5000	Tube

■Characteristics (Typical)



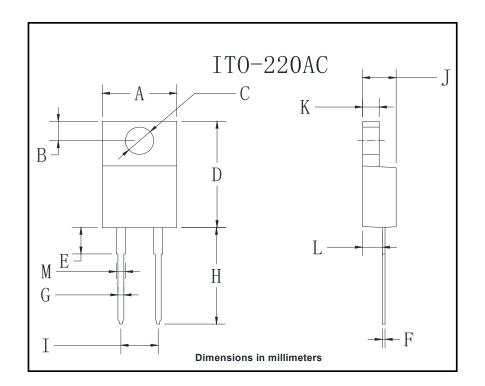








■Outline Dimensions



ITO-220AC					
Dim	Min	Max			
Α	9.8	10.2			
В	2.25	2.75			
С	2.95	3.45			
D	14.75	15.25			
E	3.5	4.1			
F	0.45	0.75			
G	0.45	0.75			
Н	13.35	14.15			
I	4.97	5.23			
J	4.3	4.8			
K	2.5	2.74			
L	2.58	2.82			
М	1.03	1.43			



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