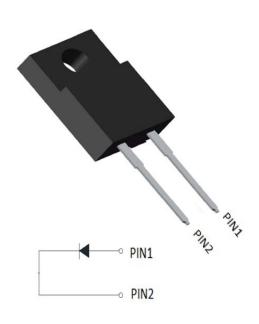


MBRL5100FA



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, RoHS-compliant

• 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℃	IO	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}	°C	-55 ~ + 150		
Junction Temperature	Tj	°C	-55 ~ + 150		

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRL5100FA
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=5.0A	0.75
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1	mA	VRM=VRRM Ta=25°C	0.5
	IRRM2		VRM=VRRM Ta=125℃	20

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

Note2:Pulse test:pulse widh 40mS



MBRL5100FA

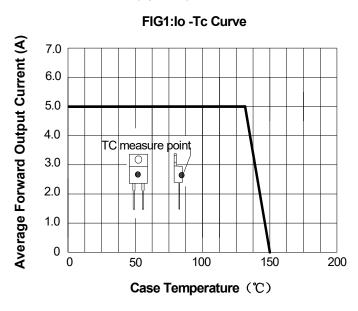
Thermal Characteristics $(T_a=25^{\circ}\mathbb{C} \text{ Unless otherwise specified})$

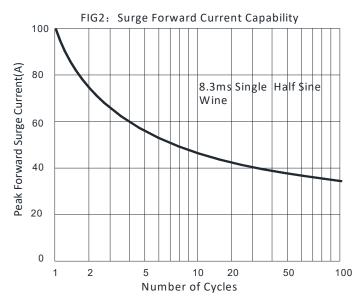
PARA	METER	SYMBOL	UNIT	MBRL5100FA
Thermal Resistance	Between junction and case	RøJ-C	°CW	4.0

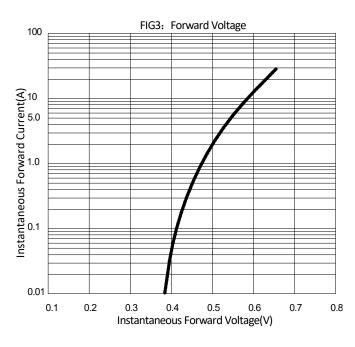
■Ordering Information (Example)

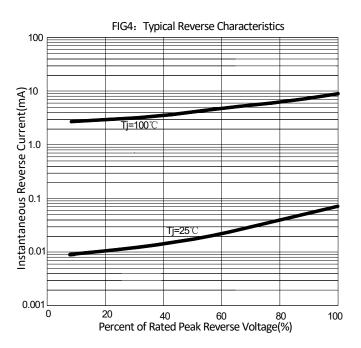
PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRL5100FA	Approximate 1.6	50	1000	5000	Tube

■Characteristics (Typical)





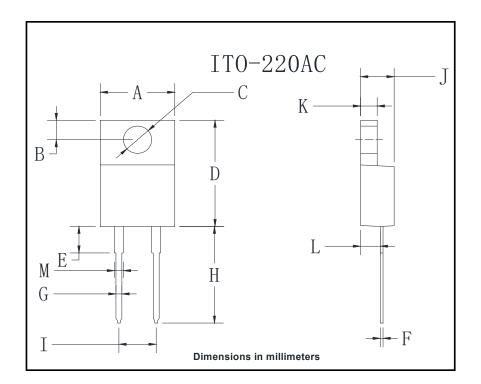








■Outline Dimensions



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		
Е	3.5	4.1		
F	0.45	0.75		
G	0.45	0.75		
Н	13.35	14.15		
1	4.97	5.23		
J	4.3	4.8		
K	2.5	2.74		
L	2.58	2.82		
М	1.03	1.43		



MBRL5100FA

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