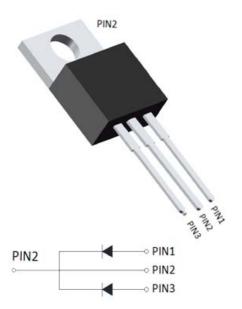




Schottky Diodes



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: TO-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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBRU30100CTA
Device marking code			MBRU30100CTA
Repetitive Peak Reverse Voltage	VRRM	V	100
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25℃	Ю	Α	20
Surge(Non-repetitive)Forward Current @60H _Z half sine-wave, 1 cycle, T _a =25°C	IFSM	Α	320
Current Squared Time @1ms≤t<8.3ms Tj=25°C	l ² t	A ² s	430
Storage Temperature	T _{stg}	$^{\circ}$	-55 ~ +150
Junction Temperature	Tj	$^{\circ}$	-55 ~ +150

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRU30100CTA
Maximum instantaneous forward voltage drop per diode	VFM	>	IFM=15.0A	0.65
Maximum DC reverse current at rated DC blocking voltage	IRRM1	mA	VRM=VRRM T _a =25°C	0.2
per diode	IRRM2		VRM=VRRM T _a =100°C	100

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

Note2:Pulse test:pulse widh 40mS

PARA	METER	SYMBOL	UNIT	MBRU30100CTA
Thermal Resistance	Between junction and case	R _{θJ-C}	°CMV	2.0

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRU30100CTA	Approximate 1.9	50	1000	5000	Tube

IICharacteristics (Typical)

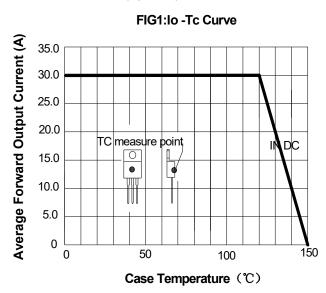


FIG2:Surge Forward Current Capability

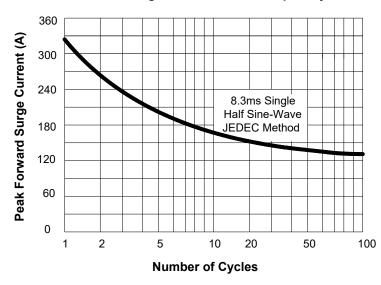


FIG3: Forward Voltage

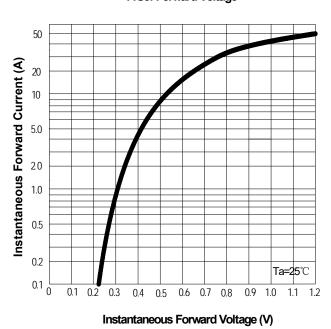
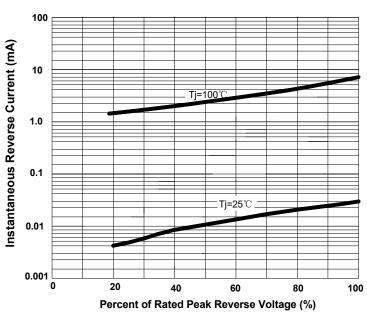
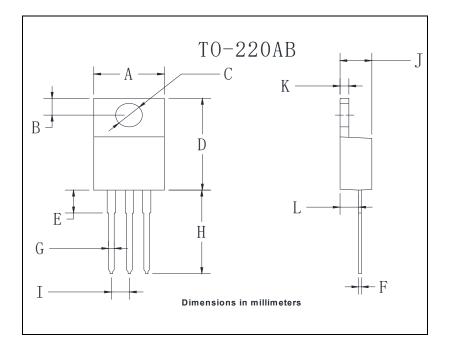


FIG.4: Typical Reverse Characteristics





■Outline Dimensions



TO-220AB					
Dim	Min	Max			
Α	9.95	10.35			
В	2.55	2.95			
С	3.8	4.0			
D	14.95	15.25			
E	3.75	4.25			
F	0.26	0.5			
G	0.68	0.94			
Н	13.4	13.9			
I	2.35	2.65			
J	4.38	4.78			
K	1.14	1.4			
L	2.37	2.79			



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