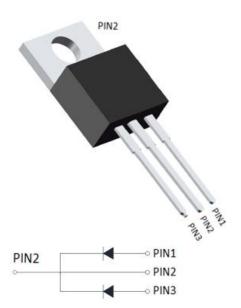


Schottky Diodes



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)

= maximum ratings (· a = s = mess = mess = pesimess)				
PARAMETER	SYMBOL	UNIT	MBRL30200CT	
Device marking code			MBRL30200CT	
Repetitive Peak Reverse Voltage	VRRM	V	200	
Average Rectified Output Current @60Hz sine wave, R-load, Ta (FIG 1)	lo	Α	30	
Surge(Non-repetitive)Forward Current @ $60H_Z$ half sine-wave, 1 cycle, T_a =25 $^{\circ}$ C	IFSM	Α	220	
Current Squared Time @1ms≤t≤8.3ms Tj=25°C	l²t	A ² s	200	
Storage Temperature	T _{stg}	${\mathbb C}$	-55 ~ + 150	
Junction Temperature	Tj	${\mathbb C}$	-55 ~ + 150	

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRL30200CT
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=15.0A	0.88
laximum DC reverse current	IRRM1	mA	VRM=VRRM T _a =25℃	0.1
at rated DC blocking voltage per diode	IRRM2		VRM=VRRM T _a =100°C	20

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

PAR	AMETER	SYMBOL	UNIT	MBRL30200CT
Thermal Resistance	Between junction and case	R _{θJ-C}	°CW	2.0

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRL30200CT	Approximate 1.9	50	1000	5000	Tube

■Characteristics (Typical)



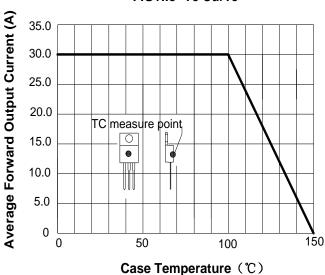


FIG2:Surge Forward Current Capability

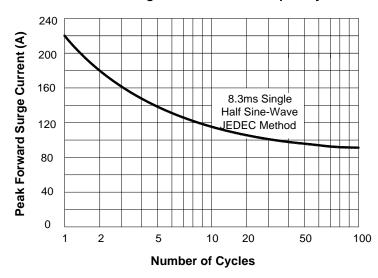


FIG3: Forward Voltage

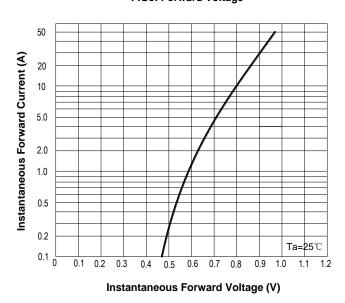
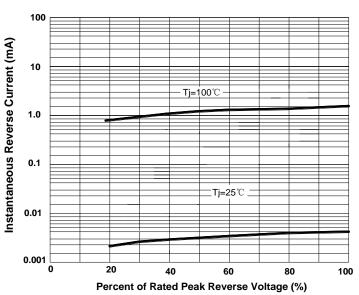
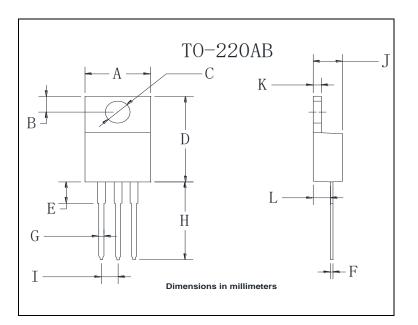


FIG.4: Instantaneous Reverse Characteristics



■Outline Dimensions



TO-220AB					
Dim	Min	Max			
Α	9.5	10.9			
В	2.22	3.27			
С	3.34	4.31			
D	14.5	15.5			
Е	3.16	4.46			
F	0.28	0.64			
G	0.68	0.94			
Н	13.06	14.62			
I	2.01	3.07			
J	4.04	5.1			
K	1.14	1.4			
L	2.14	3.19			



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