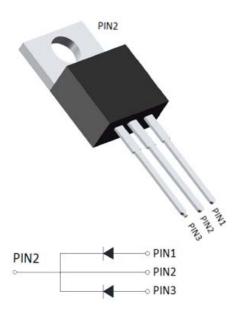




Schottky Diodes



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)

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PARAMETER	SYMBOL	UNIT	MBRL3060CT	
Device marking code			MBRL3060CT	
Repetitive Peak Reverse Voltage	VRRM	V	60	
Average Rectified Output Current @60Hz sine wave, R-load, T _a =25°C	lo	А	30	
Surge(Non-repetitive)Forward Current @60H _Z half sine-wave, 1 cycle, T _a =25℃	IFSM	Α	200	
Current Squared Time @1ms≤t<8.3ms Tj=25°C	I ² t	A ² s	167	
Storage Temperature	T _{stg}	$^{\circ}$	-55 ~ + 150	
Junction Temperature	Тј	$^{\circ}$	-55 ~ +150	

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

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRL3060CT	
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=15.0A	0.62	
Maximum DC reverse current at rated DC blocking voltage per	IRRM1	mA	VRM=VRRM T _a =25℃	0.5	
diode	IRRM2		VRM=VRRM T _a =100℃	20	

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

PARAMETER		SYMBOL	UNIT	MBRL3060CT
Thermal Resistance	Between junction and case	R ₀ J-C	°CMV	2.0



MBRL3060CT

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRL3060CT	Approximate 1.9	50	1000	5000	Tube

■Characteristics (Typical)

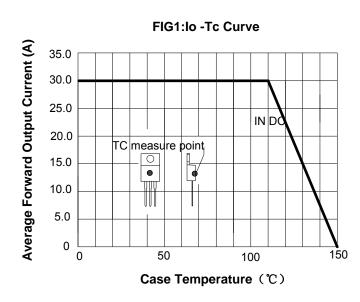


FIG2:Surge Forward Current Capability

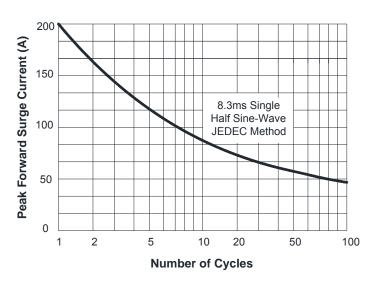


FIG3: Forward Voltage

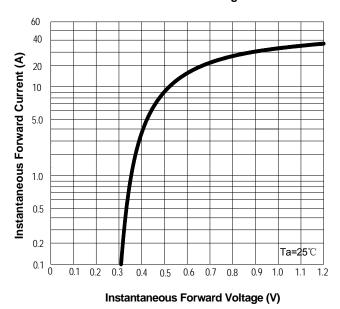
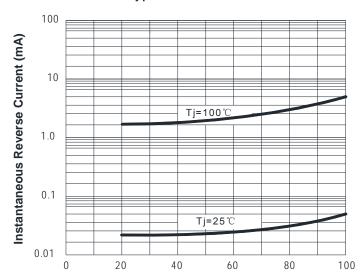


FIG.4: Typical Reverse Characteristics

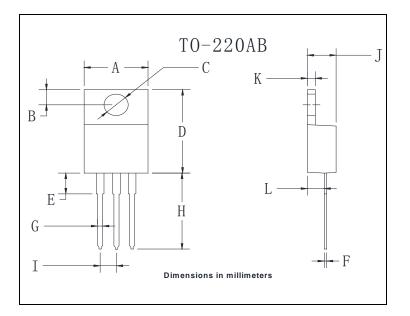


Percent of Rated Peak Reverse Voltage (%)





■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			



MBRL3060CT

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