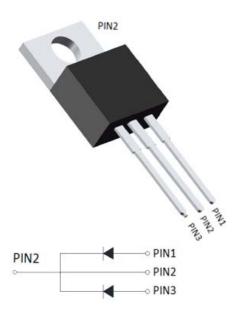




Schottky Diodes



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 raumge (ru = r = meet emerme)				
PARAMETER	SYMBOL	UNIT	MBRL20150CT	
Device marking code			MBRL20150CT	
Repetitive Peak Reverse Voltage	V_{RRM}	V	150	
Average Rectified Output Current @60Hz sine wave, R-load, Ta (FIG 1)	Io	А	20	
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25℃	I _{FSM}	А	160	
Current Squared Time @1ms≤t<8.3ms Tj=25°C	l²t	A ² s	106	
Storage Temperature	T_{stg}	$^{\circ}$	-55 ~ + 150	
Junction Temperature	Tj	$^{\circ}$	-55 ~ +1 50	

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

Elioti ioni onaldoli ono (18 20 o omoco omoco opomoco)				
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRL20150CT
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =10.0A	0.84
Maximum DC reverse current at	I _{RRM1}	mA	V _{RM} =V _{RRM} Ta=25°C	0.1
rated DC blocking voltage per diode	I _{RRM2}		V _{RM} =V _{RRM} Ta=100°C	20

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

PARAMETER		SYMBOL	UNIT	MBRL20150CT	
Thermal Resistance	Between junction and case	R _{0J-C}	°C/W	2.0	



MBRL20150CT

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
MBRL20150CT	Approximate 1.9	50	1000	5000	Tube	

■Characteristics (Typical)

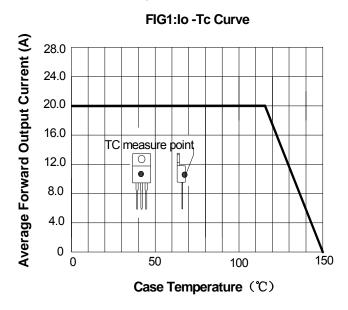


FIG2:Surge Forward Current Capability

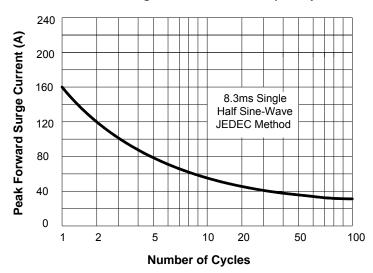


FIG3: Forward Voltage

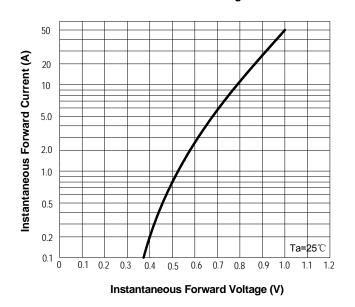
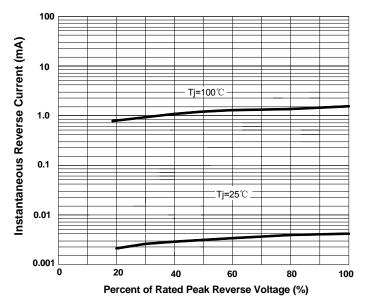


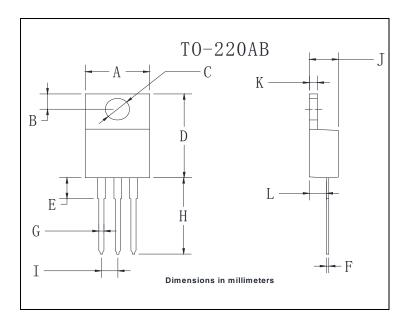
FIG.4: Instantaneous Reverse Characteristics





MBRL20150CT

■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			
E	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			



MBRL20150CT

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