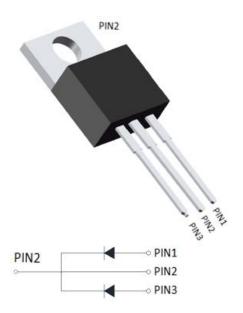


MBRL10100CT



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	MBRL10100CT
Device marking code			MBRL10100CT
Repetitive Peak Reverse Voltage	VRRM	٧	100
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25°C	lo	Α	10
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	l ² t	A ² s	41
Storage Temperature	Tstg	$^{\circ}$	-55 ~ + 150
Junction Temperature	Tj	$^{\circ}$	-55 ~ + 150

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRL10100CT
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=5.0A	0.72
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1	mA	VRM=VRRM T _a =25°C	0.1
	IRRM2		VRM=VRRM T _a =100°C	20

MBRL10100CT

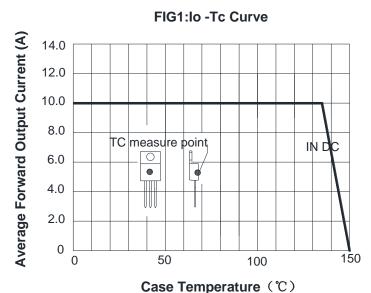
■Thermal Characteristics (Ta=25°C Unless otherwise specified)

PAR	AMETER	SYMBOL	UNIT	MBRL10100CT
Thermal Resistance	Between junction and case	RøJ-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
MBRL10100CT	Approximate 1.9	50	1000	5000	Tube

■Characteristics (Typical)



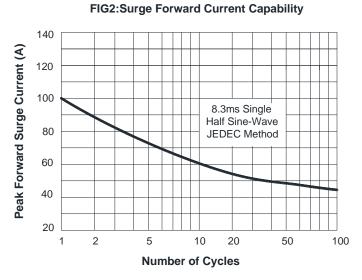
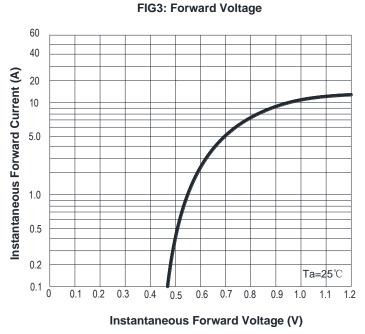
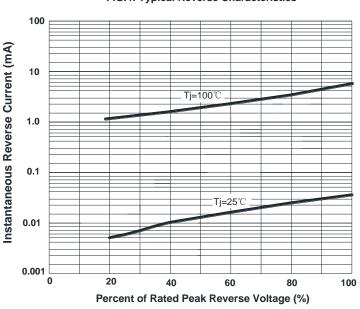


FIG.4: Typical Reverse Characteristics

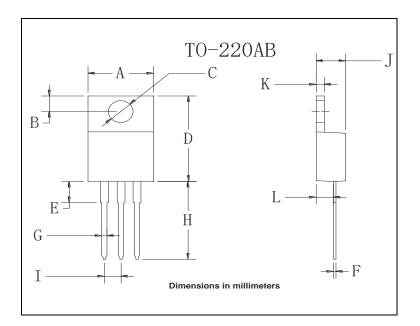






MBRL10100CT

■Outline Dimensions



TO-220AB				
Dim	Min	Max		
А	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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