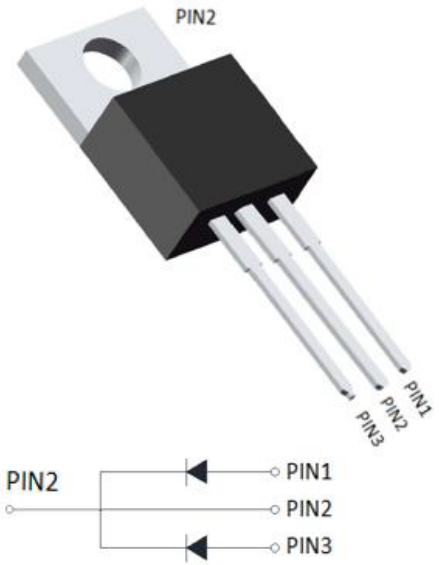
Schottky Diodes
MBRL1060CT

TO-220AB



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℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBRL1060CT
Device marking code			MBRL1060CT
Repetitive Peak Reverse Voltage	V_{RRM}	V	60
Average Rectified Output Current @60Hz sine wave, R-load, T_a=25	I_O	A	10
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T_a=25	I_{FSM}	A	100
Current Squared Time @1ms≤t≤8.3ms Tj=25	I^2t	A^2s	41
Storage Temperature	T_{stg}		-55 ~ +150
Junction Temperature	T_j		-55 ~ +150

ELECTRICAL CHARACTERISTICS (T_a=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRL1060CT
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	I_{FM}=5.0A	0.6
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	mA	$V_{RM}=V_{RRM}$ T_a=25	0.2
	I_{RRM2}		$V_{RM}=V_{RRM}$ T_a=100	20

THERMAL CHARACTERISTICS (T_a=25℃ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	MBRL1060CT
Thermal Resistance	Between junction and case	$R_{\theta J-C}$	/W	2.0

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TO-220AB

PACKAGING INFORMATION

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE (pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRL1060CT	Approximate 1.9	50	1000	5000	Tube

CHARACTERISTICS (TYPICAL)

FIG1:Io -Tc Curve

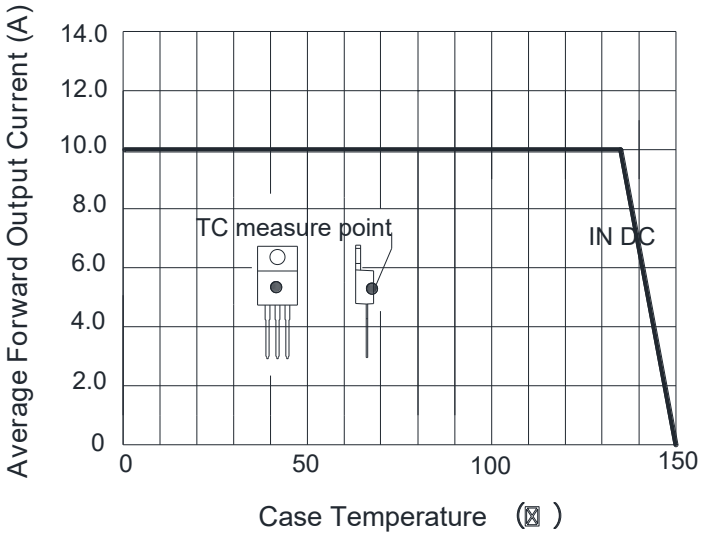


FIG2:Surge Forward Current Capability

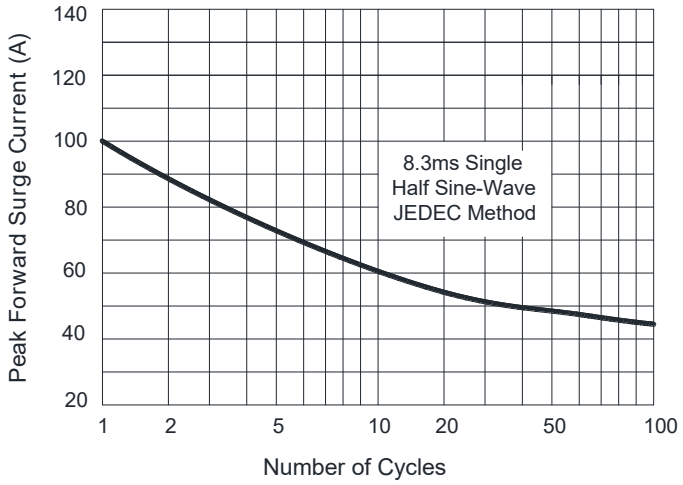


FIG3: Forward Voltage

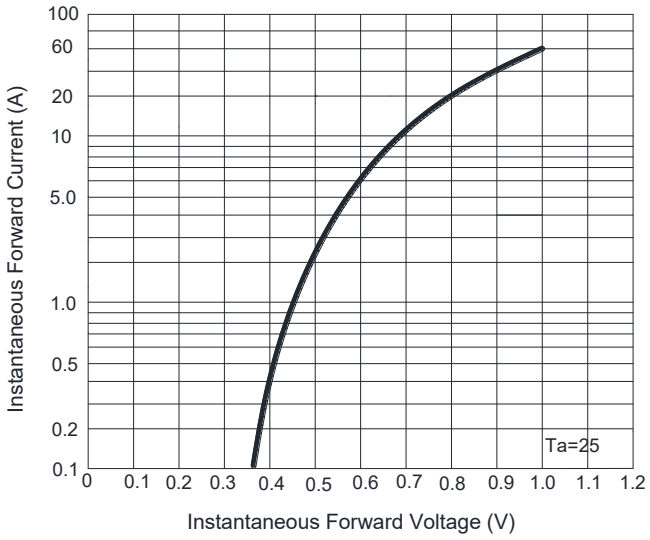
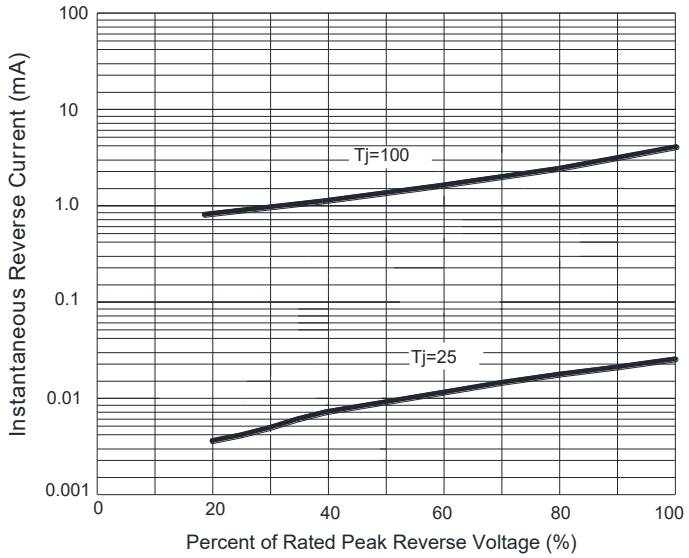
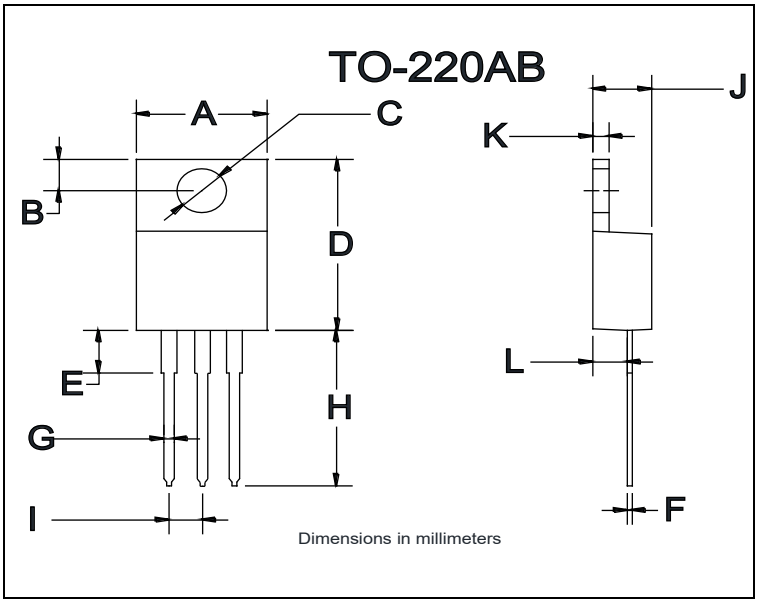


FIG.4: Typical Reverse Characteristics



■ OUTLINE DIMENSIONS



TO-220AB		
Dim	Min	Max
A	9.5	10.9
B	2.22	3.27
C	3.34	4.31
D	14.5	15.5
E	3.16	4.46
F	0.28	0.64
G	0.68	0.94
H	13.06	14.62
I	2.01	3.07
J	4.04	5.1
K	1.14	1.4
L	2.14	3.19