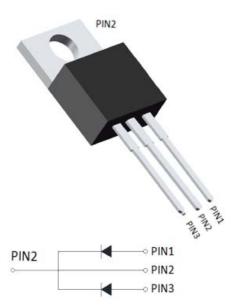
MBR1020CT THRU MBR1060CT



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	MBR1020CT	MBR1035CT	MBR1045CT	MBR1050CT	MBR1060CT
Device marking code			MBR1020CT	MBR1035CT	MBR1045CT	MBR1050CT	MBR1060CT
Repetitive Peak Reverse Voltage	VRRM	V	20	35	45	50	60
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25℃	IO	А	10				
Surge(Non-repetitive)Forward Current @60H _Z half sine-wave, 1 cycle, Ta=25℃	IFSM	А	100				
Current Squared Time @1ms≤t<8.3ms Tj=25℃,	l ² t	A ² s	41				
Storage Temperature	Tstg	°C	-55 ~ +150				
Junction Temperature	Tj	°C	-55 ~ +125 -55 ~ +150			+150	

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR1020CT	MBR1035CT	MBR1045CT	MBR1050CT	MBR1060CT
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=5.0A	0.55		0.75		
Maximum DC reverse current	IRRM1		VRM=VRRM T _a =25℃	0.2				
at rated DC blocking voltage per diode	IRRM2	mA	VRM=VRRM T _a =100℃	20				

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MBR1020CT THRU MBR1060CT

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

PAR	AMETER	SYMBOL	UNIT	MBR1020CT	MBR1035CT	MBR1040CT	MBR1050CT	MBR1060CT
Thermal Resistance	Between junction and case	RθJ₋C	°C W			2.0		

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR1020CT THRU MBR1060CT	Approximate 1.9	50	1000	5000	Tube

Characteristics (Typical)

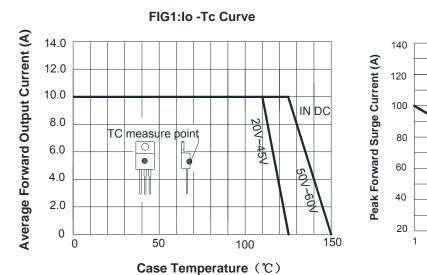


FIG3: Forward Voltage

JEDEC Method 2 5 10 20 Number of Cycles FIG.4: Typical Reverse Characteristics

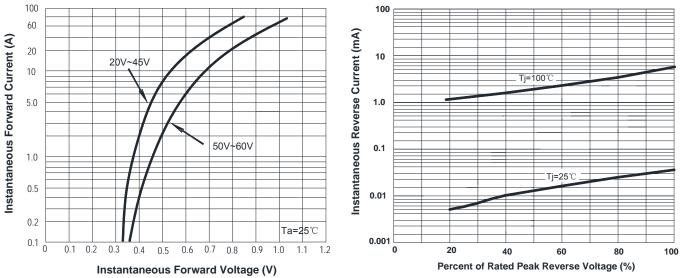
FIG2:Surge Forward Current Capability

8.3ms Single

Half Sine-Wave

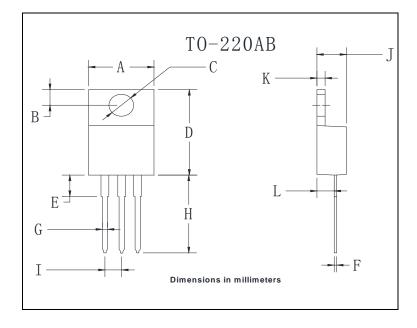
50

100



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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			

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