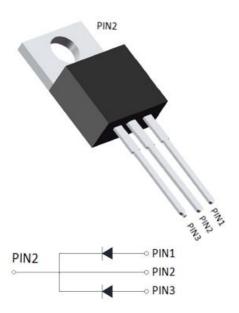
MBR1520CT THRU MBR1560CT



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 radings (-a == = = = ==========================								
PARAMETER	SYMBOL	UNIT	MBR1520CT	MBR1530CT	MBR1540CT	MBR1545CT	MBR1550CT	MBR1560CT
Device marking code			MBR1520CT	MBR1530CT	MBR1540CT	MBR1545CT	MBR1550CT	MBR1560CT
Repetitive Peak Reverse Voltage	VRRM	٧	20	30	40	45	50	60
Average Rectified Output Current @60Hz sine wave, R- load, T _a =25℃	Ю	А	15					
Surge(Non-repetitive)Forward Current @60Hz half sine-wave,1 cycle, Ta=25℃	IFSM	Α	150					
Current Squared Time @1ms≤t≤8.3ms Tj=25°C	l ² t	A ² s	94					
Storage Temperature	T _{stg}	$^{\circ}$ C	-55 ~ +150					
Junction Temperature	Tj	$^{\circ}$	-55 ~ +125			+150		

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR1520CT	MBR1530CT	MBR1540CT	MBR1545CT	MBR1550CT	MBR1560CT
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=7.5A	0.65				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°C	50					

MBR1520CT THRU MBR1560CT

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

PAR	AMETER	SYMBOL	UNIT	MBR1520CT	MBR1530CT	MBR1540CT	MBR1545CT	MBR1550CT	MBR1560CT
Thermal Resistance	Between junction and case	Rθ _{J-C}	°CMV			2	2.0		

■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBR1520CT THRU MBR1560CT	Approximate 1.9	50	1000	5000	Tube

■Characteristics (Typical)

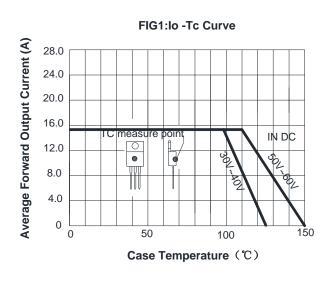
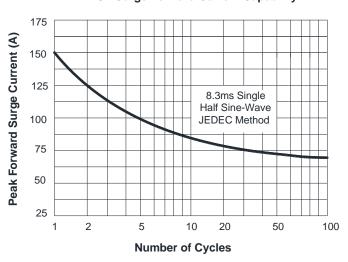


FIG2:Surge Forward Current Capability



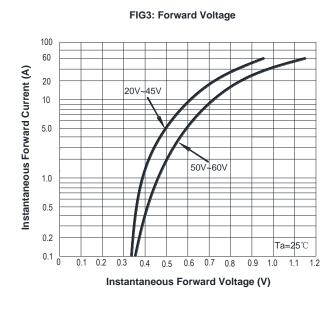
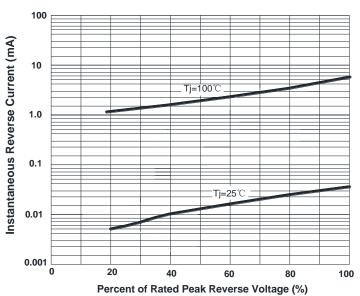


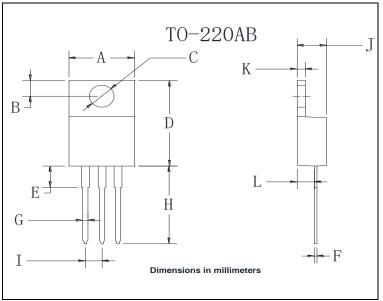
FIG.4: Typical Reverse Characteristics





MBR1520CT THRU MBR1560CT

■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			

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