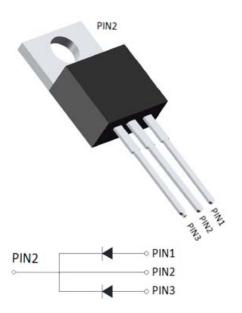
## MBR1080CT THRU MBR10200CT



# **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 ratings (14 = 5 = meet emerine eperines)							
PARAMETER	SYMBOL	UNIT	MBR1080CT	MBR10100CT	MBR10120CT	MBR10150CT	MBR10200CT
Device marking code			MBR1080CT	MBR10100CT	MBR10120CT	MBR10150CT	MBR10200CT
Repetitive Peak Reverse Voltage	VRRM	V	80	100	120	150	200
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25℃	Ю	Α	10				
Surge(Non-repetitive)Forward Current @ $60H_Z$ half sine-wave, 1 cycle, $T_a$ =25 $^{\circ}$ C	IFSM	Α	100				
Current Squared Time @1ms≤t<8.3ms Tj=25℃,	l <sup>2</sup> t	A <sup>2</sup> s	41				
Storage Temperature	T <sub>stg</sub>	$^{\circ}$	-55 ~ +150				
Junction Temperature	Tj	$^{\circ}$	-55 ~ +150				

#### **■Electrical Characteristics** (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR1080CT	MBR10100CT	MBR10120CT	MBR10150CT	MBR10200CT
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=5.0A	0.85		0.9		0.95
Maximum DC reverse current	IRRM1		VRM=VRRM T <sub>a</sub> =25°C	0.1				
at rated DC blocking voltage per diode	IRRM2	mA	VRM=VRRM T <sub>a</sub> =100℃	20				

# MBR1080CT THRU MBR10200CT

### **■Thermal Characteristics** (T<sub>a</sub>=25°C Unless otherwise specified)

PARA	AMETER	SYMBOL	UNIT	MBR1080CT	MBR10100CT	MBR10120CT	MBR10150CT	MBR10200CT
Thermal Resistance	Between junction and case	R <sub>θJ-C</sub>	°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
MBR1080CT THRU MBR10200CT	Approximate 1.9	50	1000	5000	Tube

### **■Characteristics** (Typical)

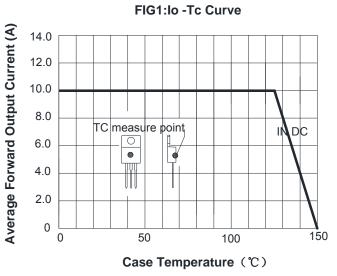
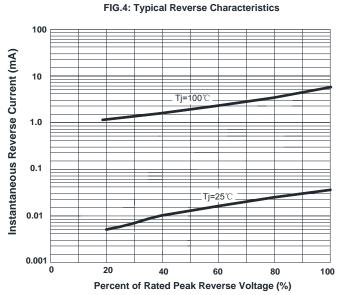


FIG2:Surge Forward Current Capability 140 Peak Forward Surge Current (A) 120 100 8.3ms Single Half Sine-Wave 80 JEDEC Method 60 40 20 2 50 100 **Number of Cycles** 

FIG3: Forward Voltage 100 60 Instantaneous Forward Current (A) 20 80V~100V 10 5.0 120V~150V 200\ 1.0 0.5 0.2 Ta=25℃ 0.1 0 0.6 0.7 0.8 Instantaneous Forward Voltage (V)

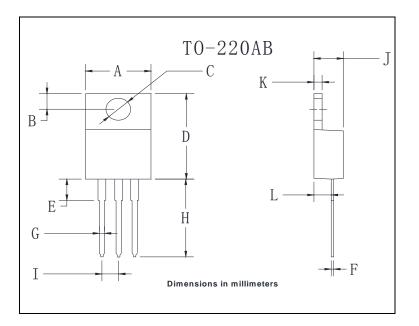


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## MBR1080CT THRU MBR10200CT

#### **■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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