

MBR1030CT thru MBR10100CT

SCHOTTKY BARRIER RECTIFIERS

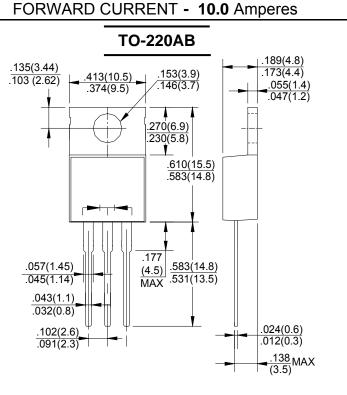
REVERSE VOLTAGE - 30 to 100Volts

FEATURES

- •Metal of silicon rectifier , majority carrier conduction
- Guard ring for transient protection
- •Low power loss,high efficiency
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- •For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- •Case: TO-220AB molded plastic
- •Polarity: As marked on the body
- •Weight: 0.08ounces,2.24 grams
- Mounting position :Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	MBR 1030CT	MBR 1040CT	MBR 1050CT	MBR 1060CT	MBR 1080CT	MBR 10100CT	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	30	40	50	60	80	100	V
Maximum RMS Voltage	VRMS	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	VDC	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current (See Fig.1)	I(AV)	10.0					А	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	120					A	
Peak Forward Voltage (Note1) IF=5A @TJ=25°C IF=5A @T J=125°C IF=10A @TJ=25°C IF=10A @TJ=25°C IF=10A @T J=125°C	VF	0.70 0.57 0.80 0.70		0. 0.	0.65 0 0.90 0		.85 .75 .95 .85	V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Bolcking Voltage @TJ=125℃	lr	0.1 15						mA
Typical Junction Capacitance (Note2)	CJ	1	70	2	20	3	00	pF
Typical Thermal Resistance (Note3)	Rejc	3.0 3.0			3.0	°C/W		
Operating Temperature Range	TJ	-55 to +150				°C		
Storage Temperature Range	Тѕтс	-55 to +175					°C	

NOTES:1.300us pulse width,2% duty cycle.

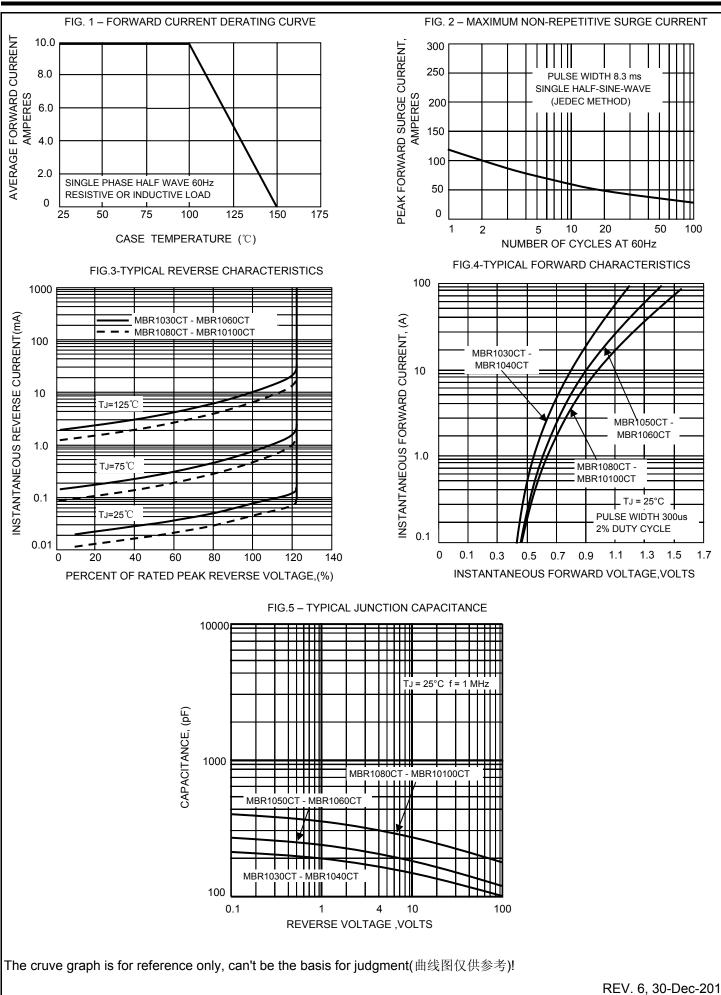
2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

3. Thermal resistance junction to case.

4.The typical data above is for reference only(典型值仅供参考).

REV. 6, 30-Dec-2014

RATING AND CHARACTERTIC CURVES MBR1030CT thru MBR10100CT



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