

MBR2030CT THRU MBR20150CT

Surface Mount Schottky Barrier Recitifiers

Reverse Voltage - 30 to 150 Volts Forward Current - 20.0 Amperes

Features

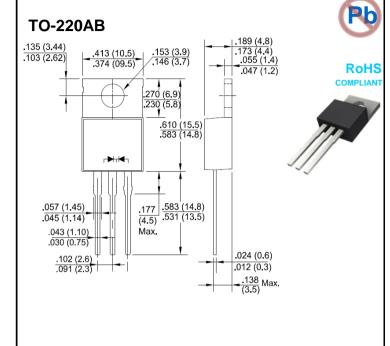
- Low forward voltage drop
- High current capability
- High surge capability
- The plastic material carries UL recognition 94V-0

Mechanical Data

- ●Case: JEDEC TO-220AB molded plastic
- Polarity: As marked on the body
- Mounting position: Any

Applications

 For use in low vlotage, high frequency inverters, polarity protection applications.



Package Outline Dimensions in Inches (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%.

	Symbol V _{RRM}	MBR 2030CT	MBR 2040CT	MBR 2050CT	MBR 2060CT	MBR	MBR	MBR	Unit
	,		2040CT	2050CT	2060CT	COCCT			
	VRRM	00			200001	2080C1	20100CT	20150CT	
		30	40	50	60	80	100	150	٧
	VRMS	21	28	35	42	56	70	105	V
	VDC	30	40	50	60	80	100	150	V
	I(AV)	20.0						Α	
ve,	Irou	450							Α
	IFSM			190				A	
. @TJ=25℃	VF		- 0.80		80	0.	85	0.95	
TJ=125℃		0.	.57 0.		70 0		75	0.85	V
®TJ=25℃		0.	0.84		0.95		0.95		l v
®TJ=125℃		0.	72	0.85		0.	85	0.95	
	In.	0.	0.1		0.1		0.1		mA
	IR	1	5	1	0	7	.5	5.0	IIIA
	Сл	400 320					pF		
	Rejc	1.5 3.5					°C/W		
	TJ	-55 to +150							$^{\circ}$
	Тѕтс	-55 to +175							$^{\circ}$
	@TJ=25℃ TJ=125℃ ©TJ=25℃	Proversity (Provention of the Country of the Count	### #################################	Property (Property Control of the C	Pry=25°C	TJ=25°C □TJ=25°C □TJ=125°C □TJ=25°C □TJ=125°C □TJ	TJ=25°C OETJ=25°C VF OETJ=25°C OETJ=25°C OETJ=25°C OETJ=125°C OETJ=125	Ty=25°C Ty=25°C Ty=125°C Ty=125°	TJ=25°C VF 0.80 0.85 0.95 0.85 0.95 0.7J=25°C VF 0.84 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95

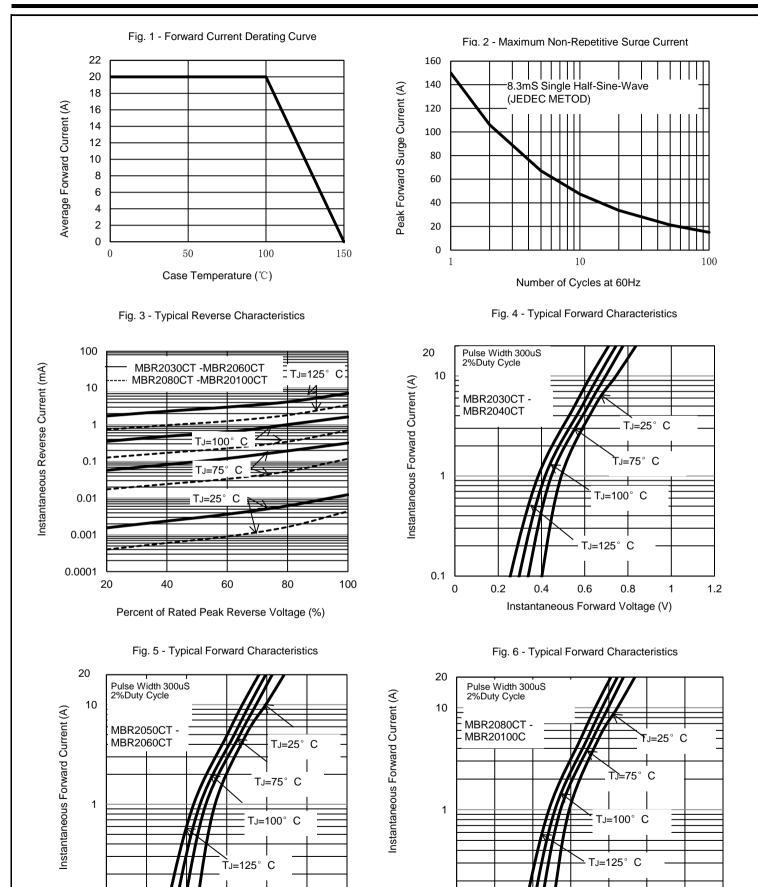
Notes: 1. 300us pulse width,2% duty cycle.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. The typical data above is for reference only.

MBR20*CT-U-00/99-00/01

Rev. 9, 22-Apr-2019





0.1

0

0.2

0.4

0.6

8.0

Instantaneous Forward Voltage (V)

The curve above is for reference only.

0.2

0.6

Instantaneous Forward Voltage (V)

0.4

0.8

1

1.2

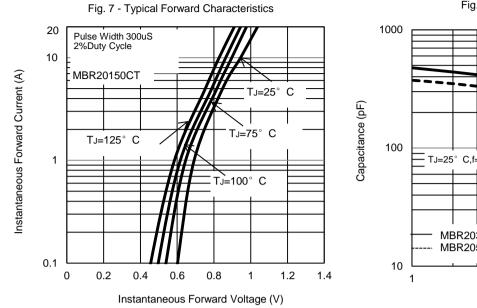
0.1

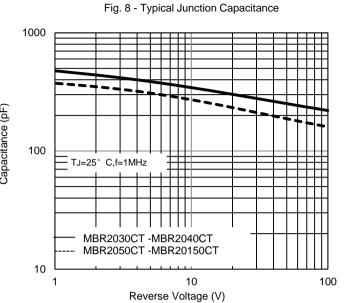
0

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1.2









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