

MBRF1630CT THRU MBRF16150CT

Surface Mount Schottky Barrier Recitifiers

Reverse Voltage - 30 to 150 Volts Forward Current - 16.0 Amperes

Features

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

Mechanical Data

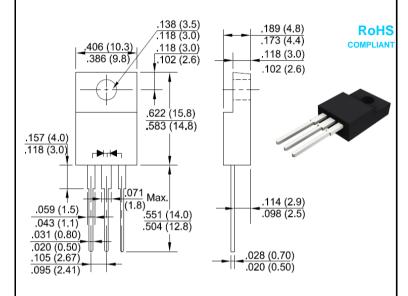
- ●Case: JEDEC ITO-220AB molded plastic
- Polarity: As marked on the body
- Mounting position: Any

Applications

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

ITO-220AB





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%.

to the parameter than any another transfer	,									
Characteristics		Symbol	MBRF 1630CT	MBRF 1640CT	MBRF 1650CT	MBRF 1660CT	MBRF 1680CT	MBRF 16100CT	MBRF 16150CT	Unit
Maximum Repetitive Peak Reverse Voltage		VRRM	30	40	50	60	80	100	150	V
Maximum RMS Voltage		VRMS	21	28	35	42	56	70	105	V
Maximum DC Blocking Voltage		VDC	30	40	50	60	80	100	150	V
Maximum Average Forward Rectified Current		I(AV)	16.0							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)		IFSM	150						Α	
Peak Forward Voltage (Note1)	IF=8A @TJ=25℃		0	0.75		75	0.85		1.05	1
	IF=8A @TJ=125℃	VF	0.	0.57		65 0.		75 0.92		.,
	IF=16A @TJ=25℃		0.	72		- 0.	.95	-	V	
	IF=16A @TJ=125℃			-		-	0.	85	-	
Maximum DC Reverse Current @TJ=25℃		ls.	0.3 0.1					A		
at Rated DC Blocking Voltage @TJ=125℃		lr	10			5.0			mA	
Typical Junction Capacitance (Note2)		CJ	400			200			pF	
Typical Thermal Resistance Junction to Case		Rejc	3.0							°C/W
Junction Temperature Range		TJ	-55 to +150							$^{\circ}\!\mathbb{C}$
Storage Temperature Range		Тsтg	-55 to +175						$^{\circ}$	
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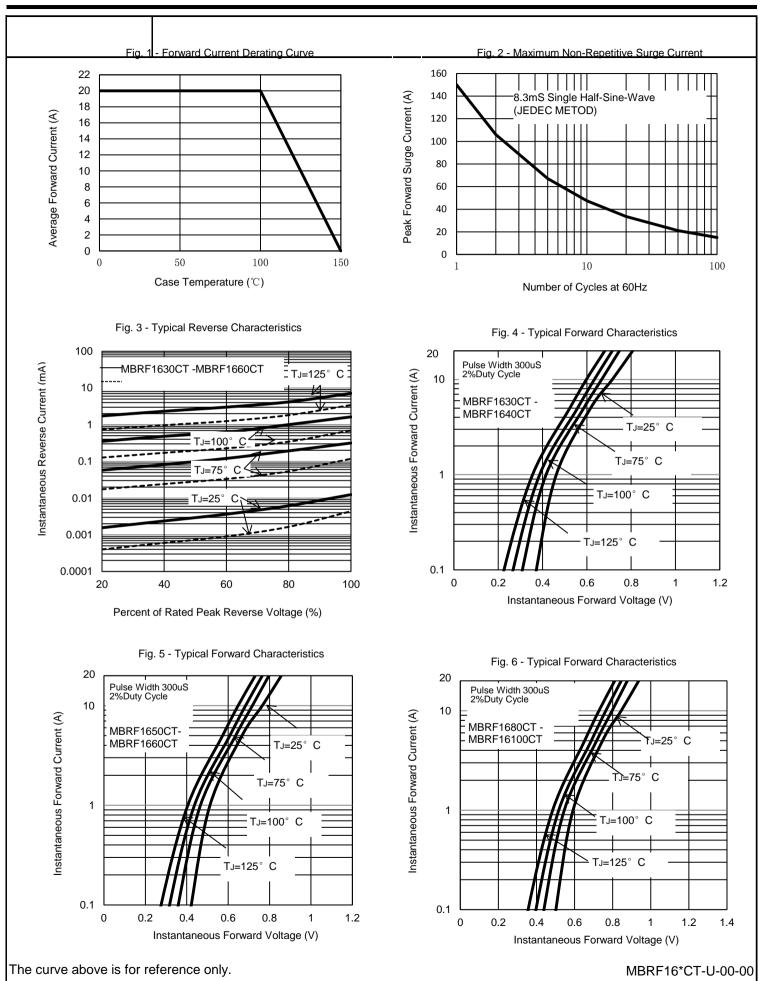
Notes: 1. 300us pulse width,2% duty cycle. 300uS.

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

MBRF16*CT-U-00-00 Rev. 9, 22-Apr-2019

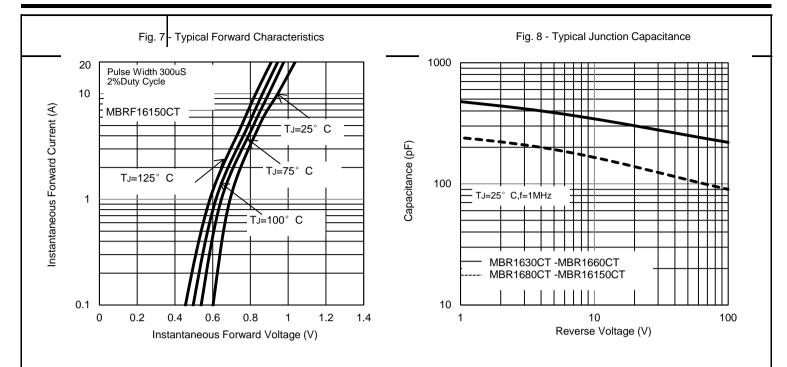


Rev. 9, 22-Apr-2019



Rating and Characteristic Curves MBRF1630CT THRU MBRF16150CT







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