

MBRF1630CT thru MBRF16150CT

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 30 to 150 Volts FORWARD CURRENT - 16.0 Amperes

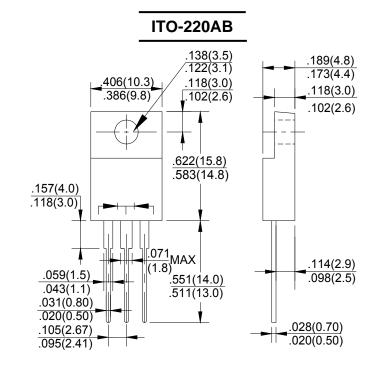
FEATURES

- 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: ITO-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%

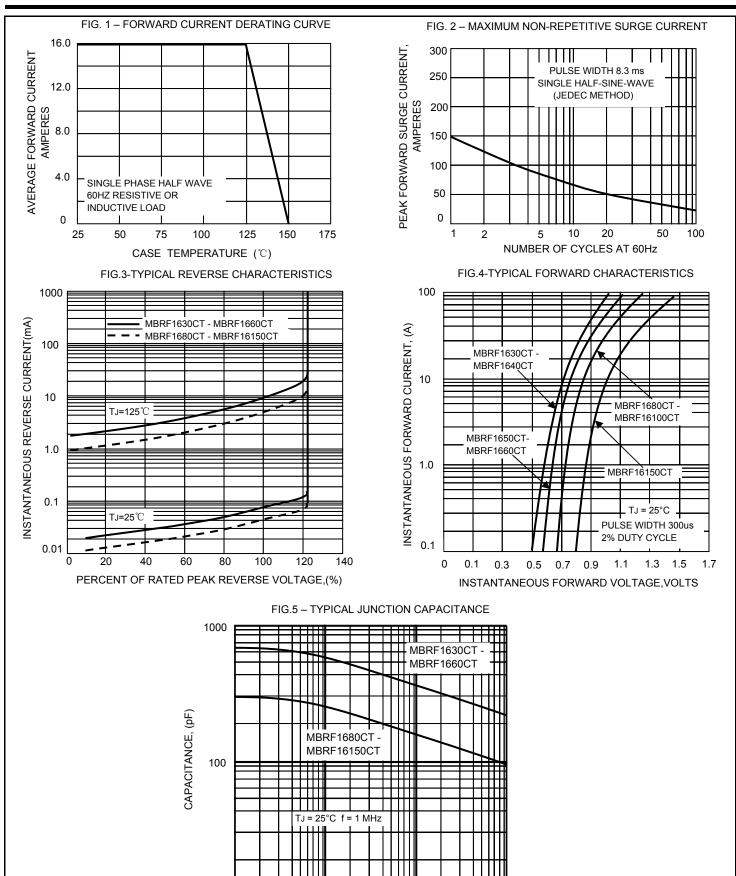
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CHARACTERISTICS		SYMBOL	1630CT	1640CT	1650CT	1660CT		16100CT	16150CT	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	30	40	50	60	80	100	150	V
Maximum RMS Voltage		VRMS	21	28	35	42	56	70	105	V
Maximum DC Blocking Voltage		VDC	30	40	50	60	80	100	150	V
Maximum Average Forward Rectified Current (See Fig.1)		I(AV)	16.0						Α	
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)		IFSM	150						А	
Peak Forward Voltage (Note1)	IF=8A @TJ=25℃ IF=8A @TJ=125℃ IF=16A @TJ=25℃ IF=16A @TJ=125℃	VF	0. 0.	.7 57 72 -	0.	75 65 - -	0. 0.	85 75 95 85	1.05 0.92 - -	V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Bolcking Voltage @TJ=125℃		lR	0.3 10			0.1 5			mA	
Typical Junction Capacitance (Note2)		Сл	400			200		pF		
Typical Thermal Resistance (Note3)		Rejc	3.0						°C/W	
Operating Temperature Range		TJ	-55 to +150							$^{\circ}$ C
Storage Temperature Range		Тѕтс	-55 to +175							$^{\circ}\!\mathbb{C}$
		-								

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).

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REVERSE VOLTAGE, VOLTS

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The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

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