

## Descriptions

The MBRF10150CT is schottky barrier diode, TO-220F plastic package.

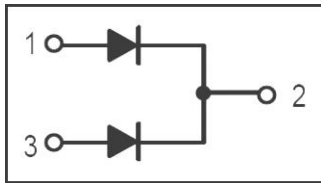
## Features

- For use in low voltage,high frequency inverters.
- Free wheeling
- And polarity protection applications

## Applications

- Low power loss
- high efficiency

## Equivalent Circuit & Pinning



PIN1: Anode

PIN 2: Cathode

PIN 3: Anode

## Marking

See Marking Instructions

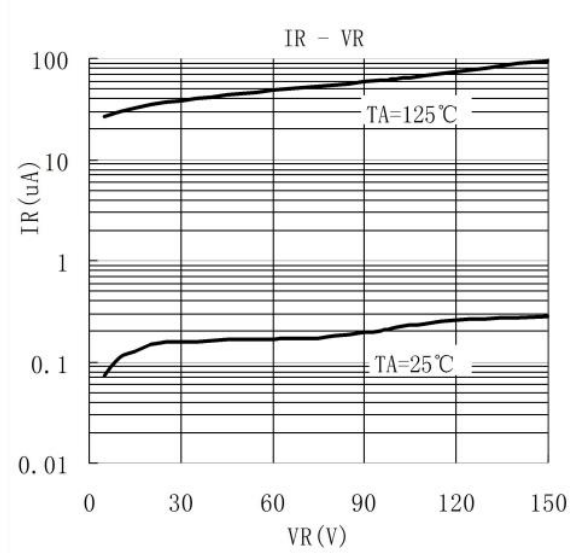
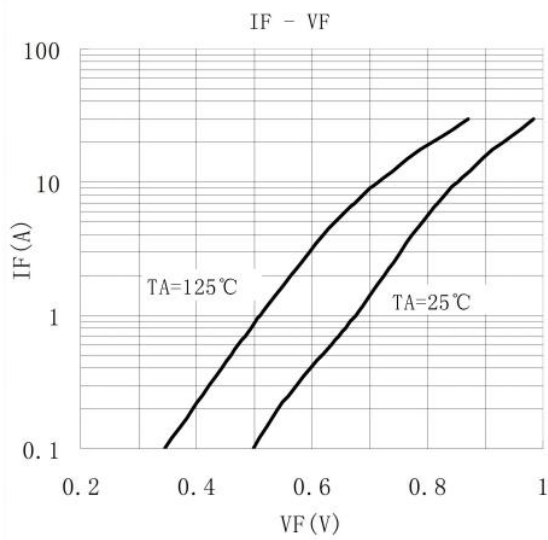
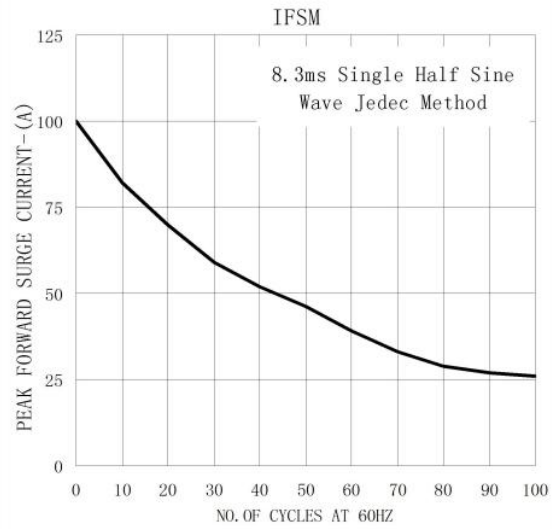
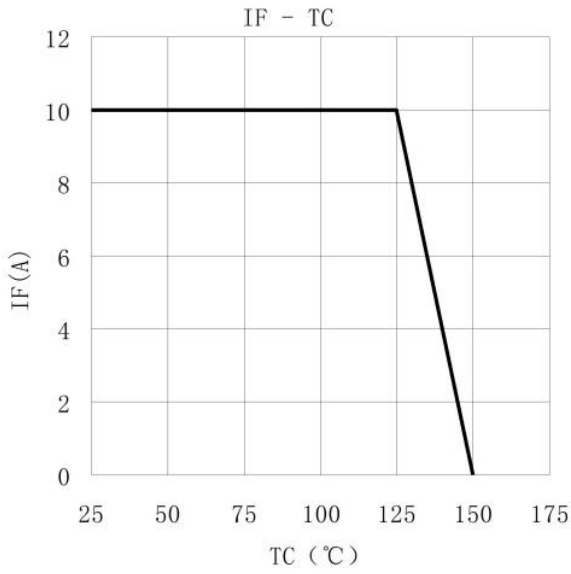
## Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	150	V
Average Forward Current	$I_{F(AV)}$	10	A
Peak Reverse Forward Current	$I_{FRM}$	10	A
Non Repetitive Peak Surge Current	$I_{FSM}$	150	A
Peak Repetitive Reverse Current	$I_{RRM}$	0.5	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	3.5	°C/W
Junction and Storage Temperature Range	$T_j, T_{stg}$	-55~150	°C

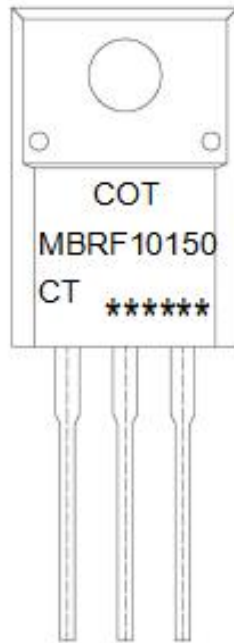
## Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_R$		150			V
Forward Voltage	$V_F$	$I_F=5A$			0.88	V
		$I_F=5A(T_c=125^\circ C)$			0.78	V
Instantaneous Reverse Current	$I_R$	$V_R=150V$			0.15	mA
		$V_R=150V(T_c=125^\circ C)$			150	mA
Critical rate of rise of reverse voltage	$dv/dt$				10000	V/ $\mu s$

**Electrical Characteristic Curve**



**Marking Instructions**



Note:

COT: Company Code

MBRF10150: Product Type.

CT: Internal Structure

\*\*\*\*\*: Lot No. Code, code change with Lot No.

**Packaging SPEC**

**BULK**

Package Type	Units					Dimension (unit: mm <sup>3</sup> )		
	Units/Bag	Bags/Inner Box	Units/Inner Box	Inner Boxes/Outer Bo	Units/Outer Box	Bag	Inner Box	Outer Box
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

**TUBE**

Package Type	Units					Dimension (unit: mm <sup>3</sup> )		
	Units/Tube	Tubes/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Tube	Inner Box	Outer Box
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

Package Outline Dimensions

TO-220F

单位: mm

