

# MBRF10200CT

Rev.F Mar.-2016

## / Descriptions

TO-220F

Schottky Diode in a TO-220F Plastic Package.

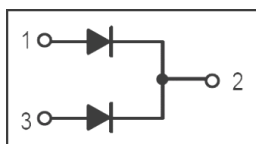
## / Features

Low power loss,high efficiency.

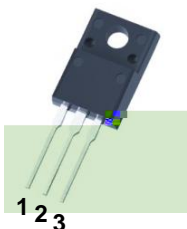
## / Applications

For use in low voltage,high frequency inverters, free wheeling, and polarity protection applications.

## / Equivalent Circuit



## / Pinning



PIN1 Anode      PIN 2 Cathode      PIN 3 Anode

## / h<sub>FE</sub> Classifications & Marking

See Marking Instructions

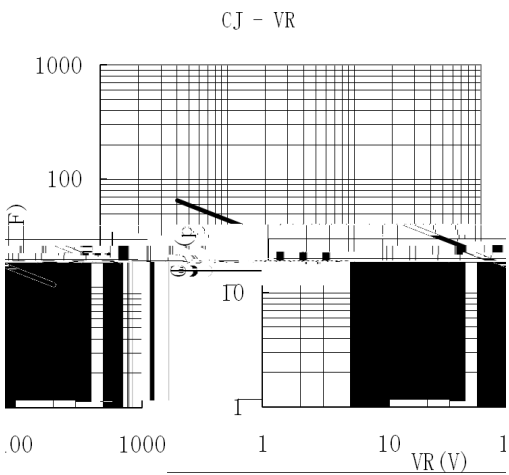
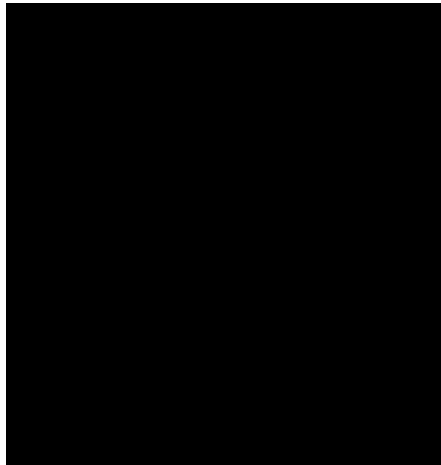
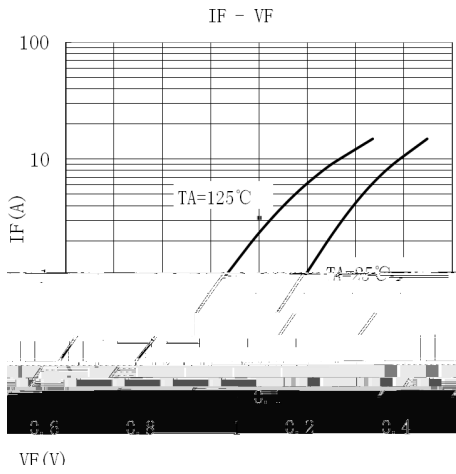
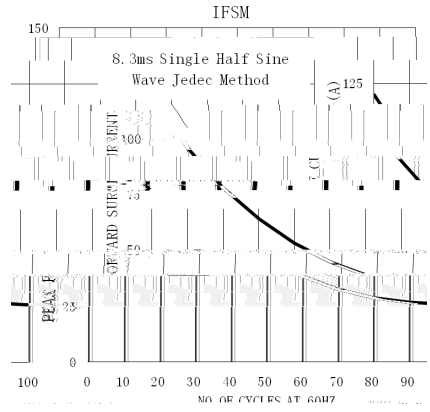
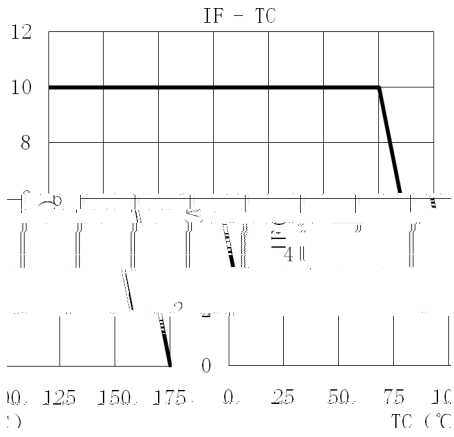
## / Absolute Maximum Ratings(Ta=25 )

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	200	V
Average Forward Current	$I_{F(AV)}$	10	A
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	$R_{JC}$	3.5	/W
Junction and Storage Temperature Range	$T_j, T_{stg}$	-55 150	

## / Electrical Characteristics(Ta=25 )

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_R$		200			V
Forward Voltage	$V_F$	$I_F=5A$			0.99	V
		$I_F=5A(T_c=125 )$			0.87	V
Instantaneous Reverse Current	$I_R$	$V_R=200V$			0.15	mA
		$V_R=200V(T_c=125 )$			150	mA
Critical rate of rise of reverse voltage	dv/dt				10000	V/ $\mu$ s

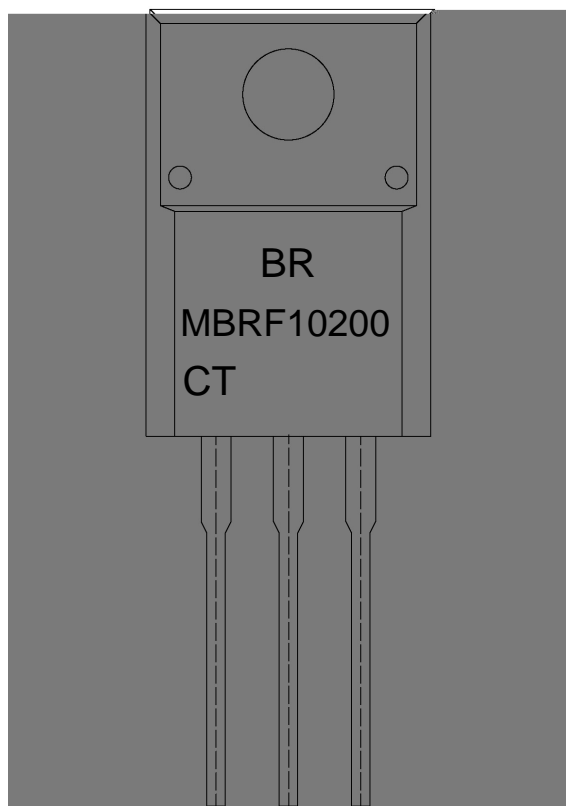
**/ Electrical Characteristic Curve**



/ Package Dimensions



**/ Marking Instructions**



BR

MBRF10200

CT:

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Note:

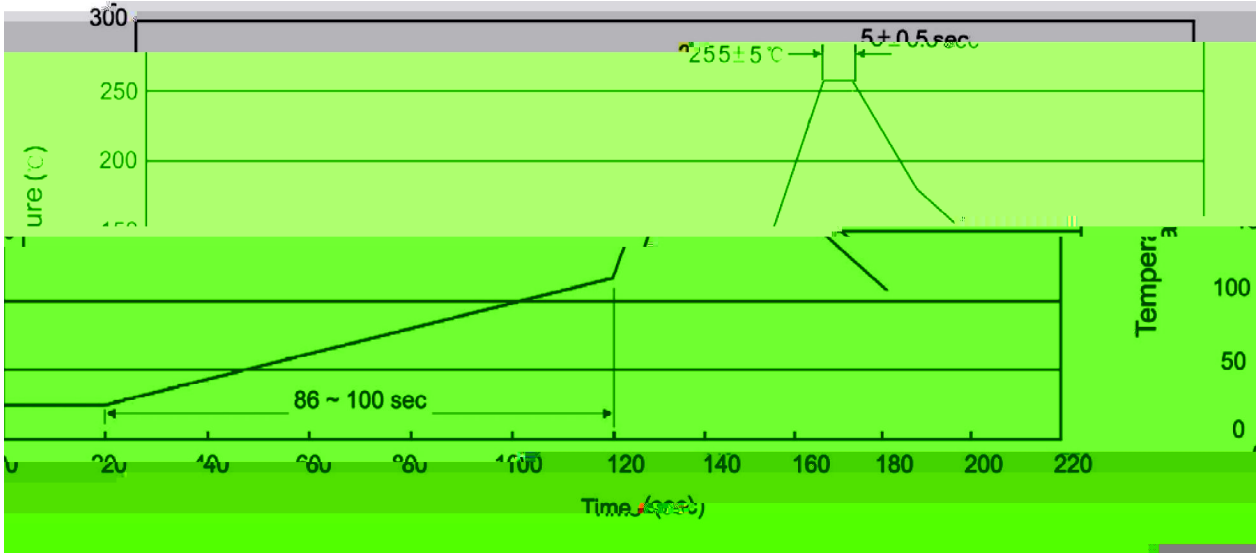
BR: Company Code

MBRF10200: Product Type.

CT: Internal Structure

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

( ) / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- |   |       |     |           |        |   |
|---|-------|-----|-----------|--------|---|
| 1 | 25    | 150 | 60        | 90sec; | 1.Preheating:25~150 , Time:60~90sec.    |
| 2 | 255±5 |     | 5±0.5sec; |        | 2.Peak Temp.:255±5 , Duration:5±0.5sec. |
| 3 |       |     |           |        |   |