

# MBRF20100CT

Rev.G Feb.-2023

## / Descriptions

TO-220F

Schottky Barrier Diode in a TO-220F Plastic Package.

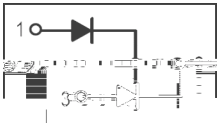
## / Features

Low power loss,high efficiency.

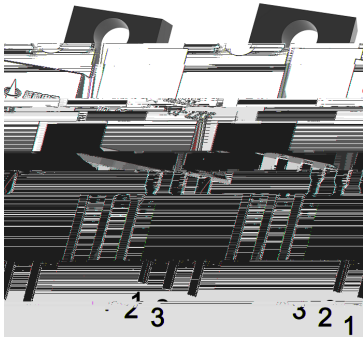
## / Applications

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

## / Marking

See Marking Instructions

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蓝箭电子  
BLUE ROCKET ELECTRONICS

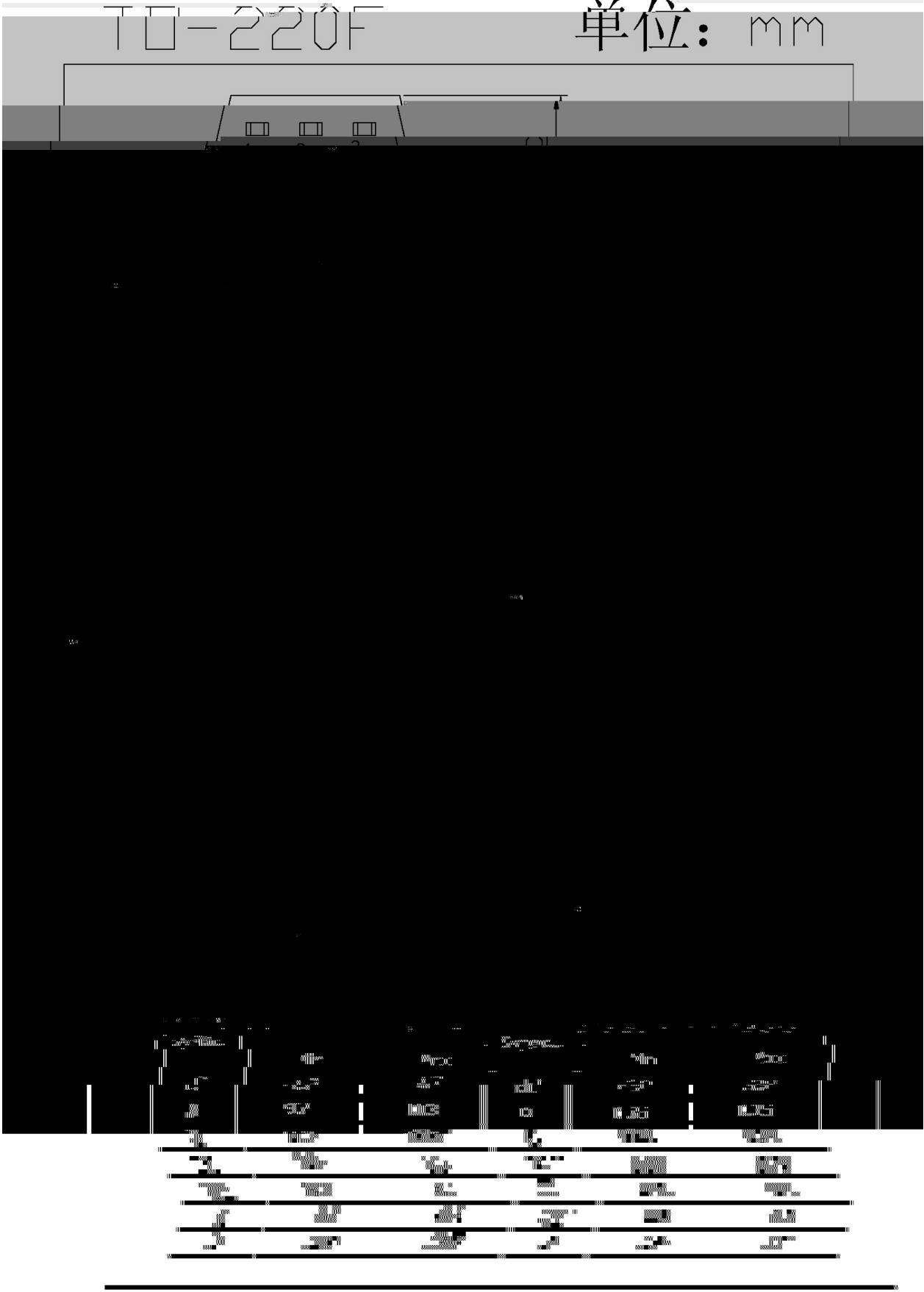
DATA SHEET

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	100	V
Working Peak Reverse Voltage	$V_{RWM}$	100	V
Reverse forward current	$I_{FRM}$	20	A
Average Forward Current	$I_{F(AV)}$	10	A
Average Forward Current total	$I_{F(AV)total}$	20	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 Temperature Range	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

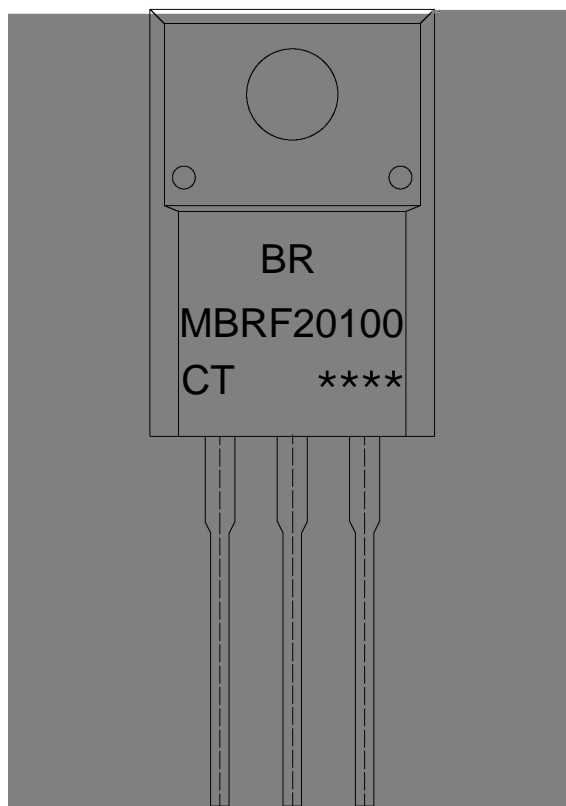
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	$V_F$	$I_F = 10A (I_C = 25)$				



/ Package Dimensions



**/ Marking Instructions**



BR

MBRF20100

CT:

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Note:

BR: Company Code

MBRF20100: Product Type

CT: Internal Structure

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

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



- |   |       |     |           |        |   |                                      |
|---|-------|-----|-----------|--------|---|--------------------------------------|
| 1 | 25    | 150 | 60        | 90sec; | Note:                                   | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255±5 |     | 5±0.5sec; |        | 2.Peak Temp.:255±5 , Duration:5±0.5sec. |                                      |
| 3 |       | 2   | 10 /sec.  |        | 3. Cooling Speed: 2~10 /sec.            |                                      |

**/ Resistance to Soldering Heat Test Conditions**

270±5                      10±1 sec.                      Temp.:270±5                      Time:10±1 sec

**/ Packaging SPEC.**

/ BULK

Package Type	Units	Dimension	(unit mm <sup>3</sup> )
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