

# BRMBR30150CTRA

Rev. A Jul.-2018

## / Descriptions

TO-220

Schottky Barrier Diode in a TO-220 Plastic Package.

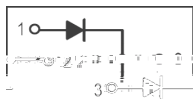
## / Features

Low power loss, high efficiency.

## / Applications

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

## / Equivalent Circuit



## / Pinning



1  
2  
3

PIN1 Anode    PIN 2 Cathode    PIN 3 Anode

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

See Marking Instructions.

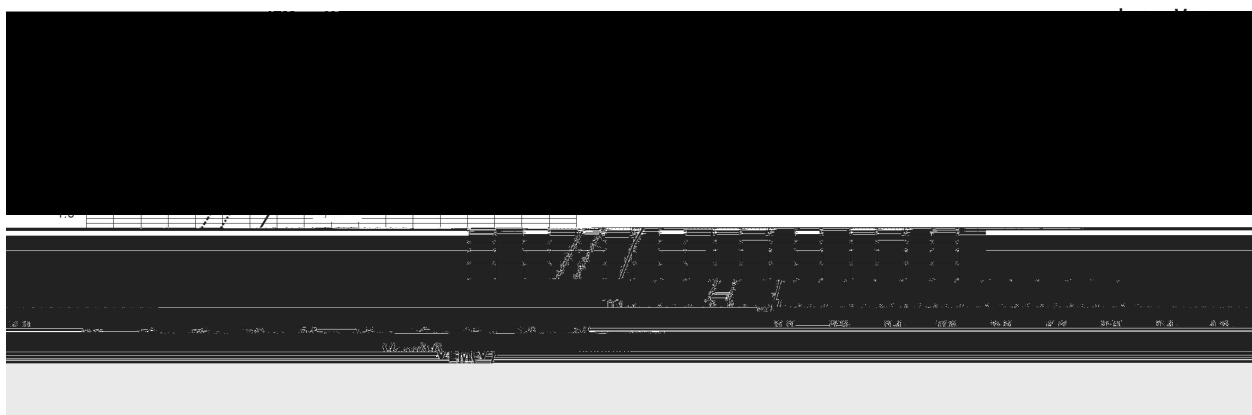
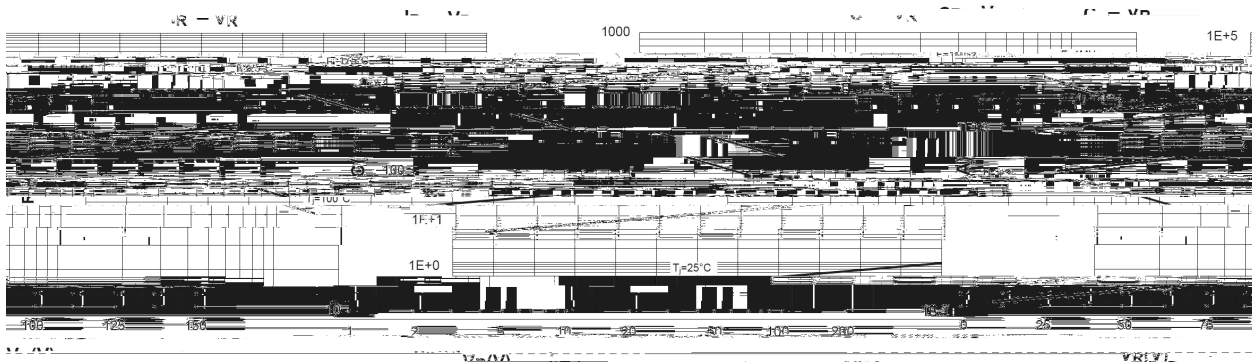
/ Absolute Maximum Ratings( $T_a=25$  )

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	150	V
Average Rectified Forward Current	$I_{F(AV)}$	15	A
	$I_{F(AV) \text{ total}}$	30	A
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	200	A
Thermal Resistance Junction to Case	$R_{Jc}$	2.2	/W
Junction Temperature Range	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

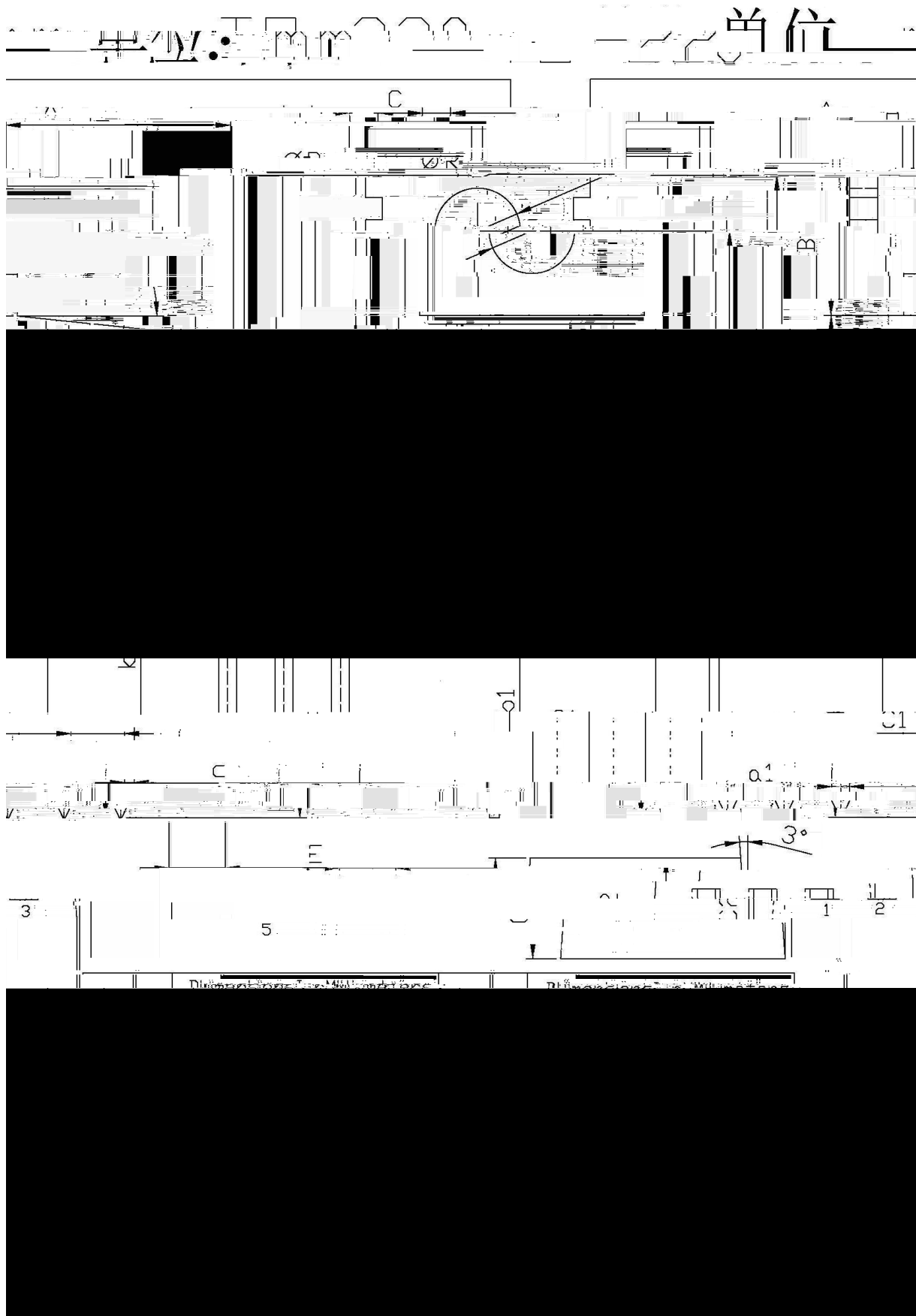
/ Electrical Characteristics( $T_a=25$  )

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	$V_F$	$I_F=15A(T_C=25)$			0.95	V
		$I_F=15A(T_C=125)$			0.92	V
		$I_F=30A(T_C=25)$			1.02	V
		$I_F=30A(T_C=125)$			0.98	V
Instantaneous Reverse Current	$I_R$	$V_R=150V(T_C=25)$			5.0	$\mu A$
		$V_R=150V(T_C=125)$			5.0	mA

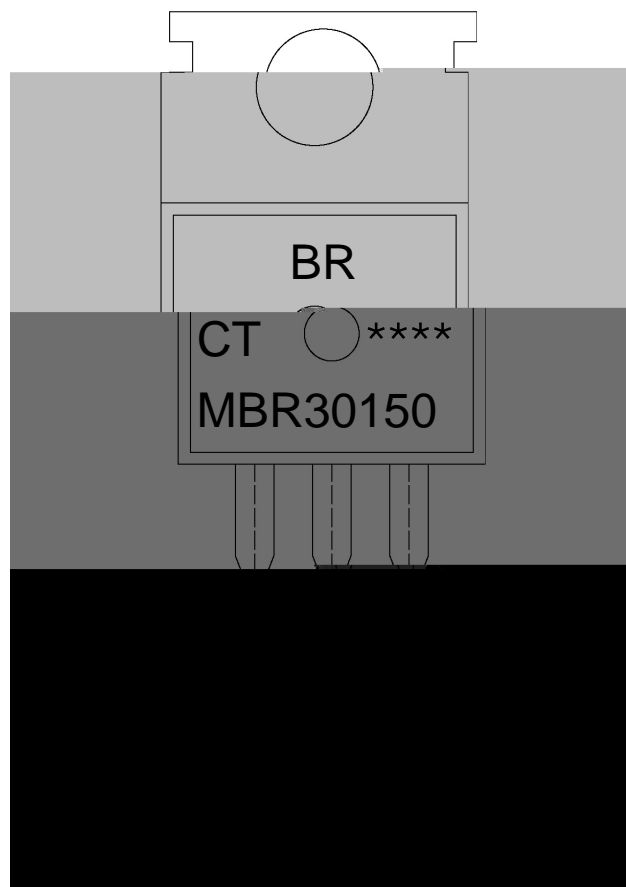
/ Electrical Characteristic Curve



/ Package Dimensions



## / Marking Instructions



BR

MBR30150

CT:

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Note:

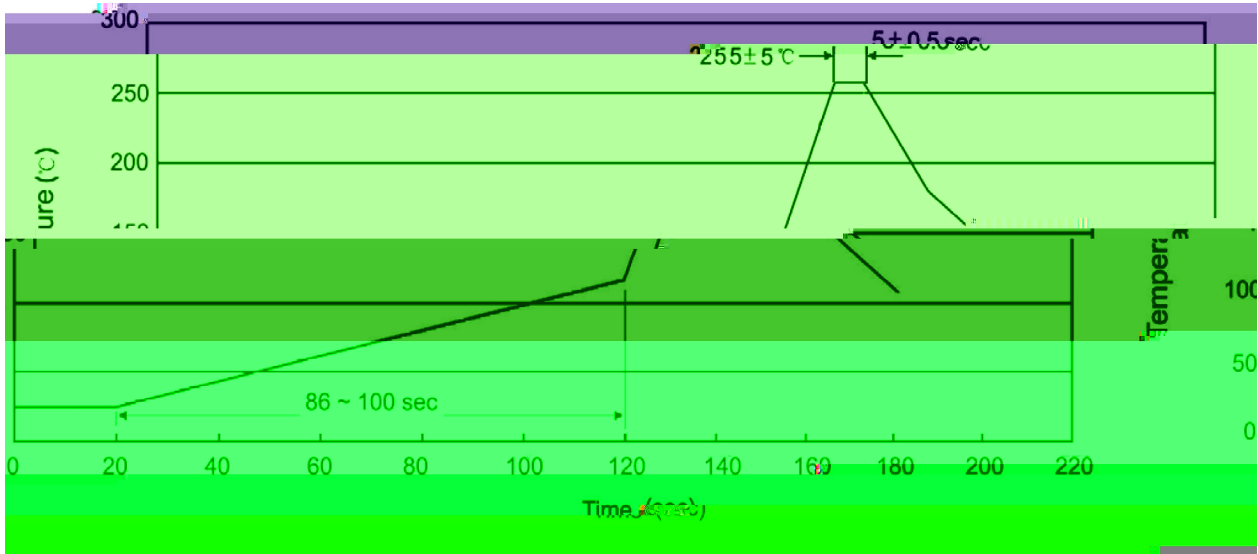
BR:                   Company Code

MBR30150           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 |       | 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> )		
	Units/Bag	Bags/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	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	