

# BRMBR30200CTRA

Rev. B Jul.-2018

TO-220

Schottky Barrier Diode in a TO-220 Plastic Package.

Low power loss, high efficiency.

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



PIN1 Anode

PIN 2 Cathode

PIN 3 Anode

## / $h_{FE}$ Classifications & Marking

See Marking Instructions

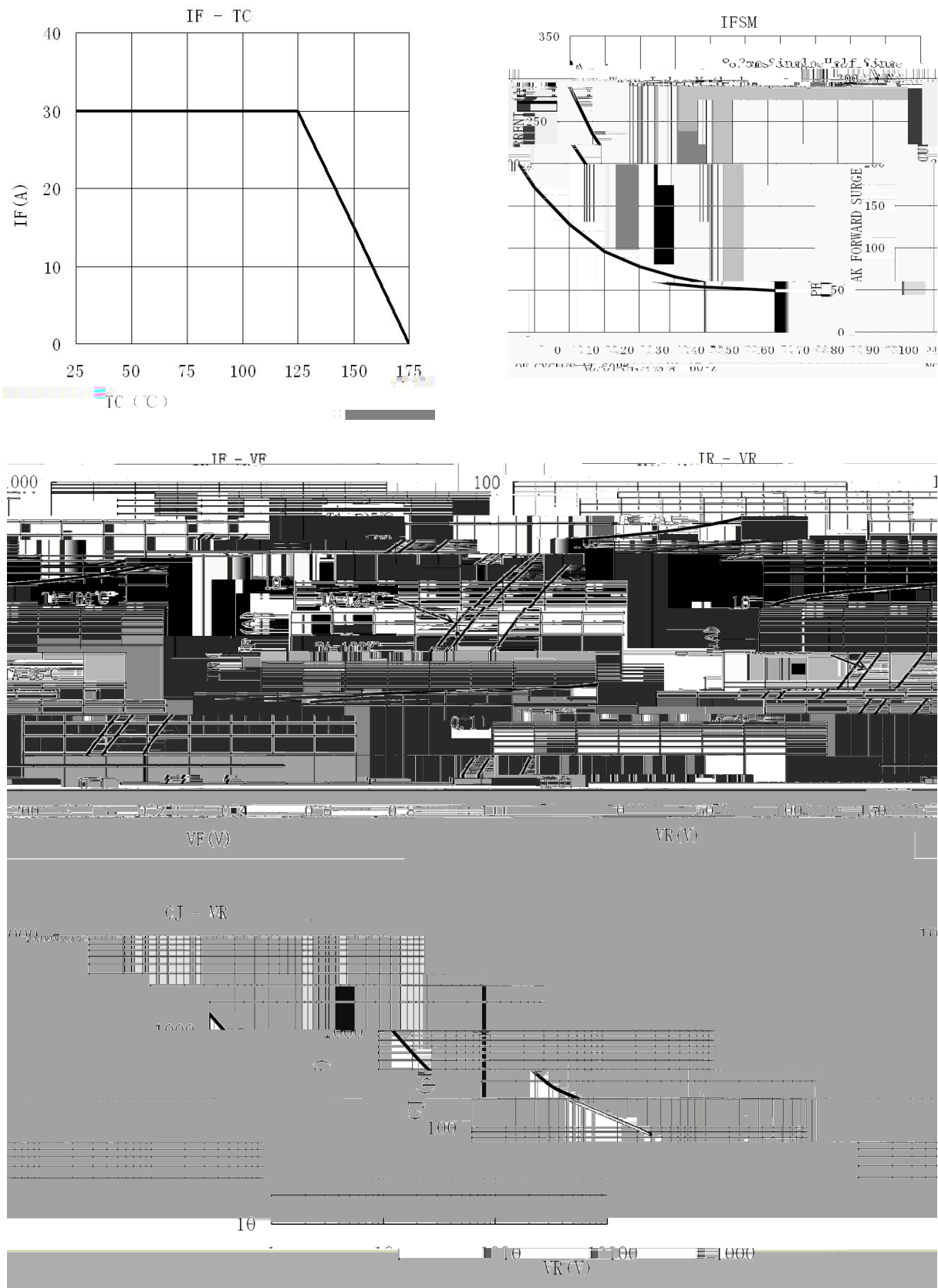
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| Parameter                                 | Symbol                    | Rating  | Unit |
|-------------------------------------------|---------------------------|---------|------|
| Peak Repetitive Reverse Voltage           | $V_{RRM}$                 | 200     | V    |
| Working Peak Reverse Voltage              | $V_{RWM}$                 | 200     | V    |
| Average Rectified Forward Current         | $I_{F(AV)}$               | 15      | A    |
|                                           | $I_{F(AV) \text{ total}}$ | 30      | A    |
| Non-Repetitive Peak Forward Surge Current | $I_{FSM}$                 | 320     | A    |
| Thermal Resistance Junction to Case       | $R_{\theta JC}$           | 2.2     | /W   |
| Junction Temperature Range                | $T_j$                     | 175     |      |
| Storage Temperature Range                 | $T_{stg}$                 | -40 175 |      |

| Parameter       | Symbol            | Test Conditions                             | Min | Typ  | Max  | Unit |
|-----------------|-------------------|---------------------------------------------|-----|------|------|------|
| Reverse Voltage | V <sub>BR R</sub> | I <sub>R</sub> =1mA(T <sub>a</sub> =25 °)   | 200 |      |      | V    |
| Forward Voltage | V <sub>F</sub>    | I <sub>F</sub> =15A(T <sub>a</sub> =25 °)   |     | 0.86 | 0.92 | V    |
|                 |                   | I <sub>F</sub> =15A(T <sub>a</sub> =125 °)  |     |      | 0.78 | V    |
|                 |                   | I <sub>F</sub> =20A(T <sub>a</sub> =25 °)   |     | 0.89 | 0.95 | V    |
|                 |                   | I <sub>F</sub> =20A(T <sub>a</sub> =125 °)  |     |      | 0.82 | V    |
|                 |                   | I <sub>R</sub> =200V(T <sub>a</sub> =25 °)  |     |      | 100  | uA   |
|                 |                   | I <sub>R</sub> =200V(T <sub>a</sub> =125 °) | 5   |      |      | mA   |

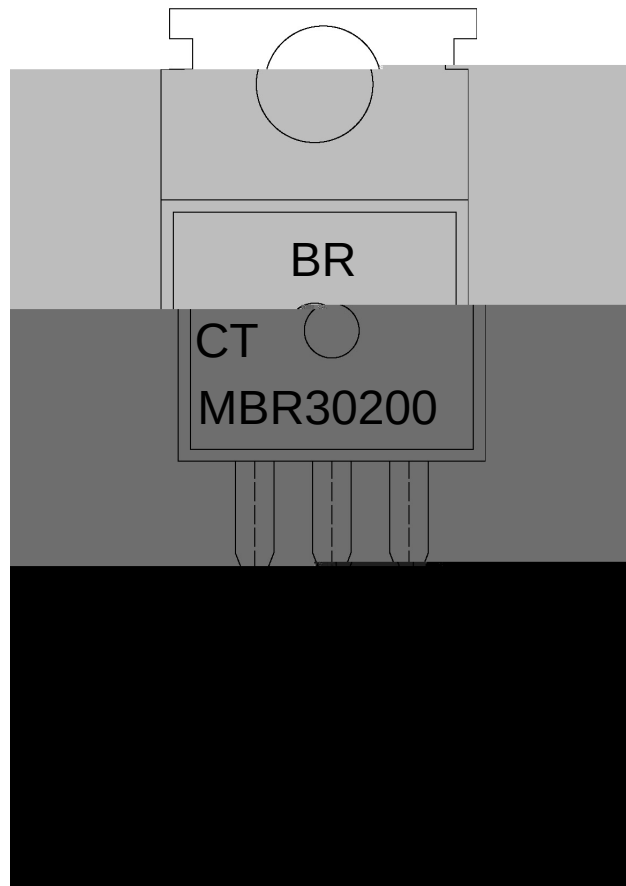
/ Electrical Characteristic Curve



/ Package Dimensions



## / Marking Instructions



BR

MBR30200

CT:

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Note:

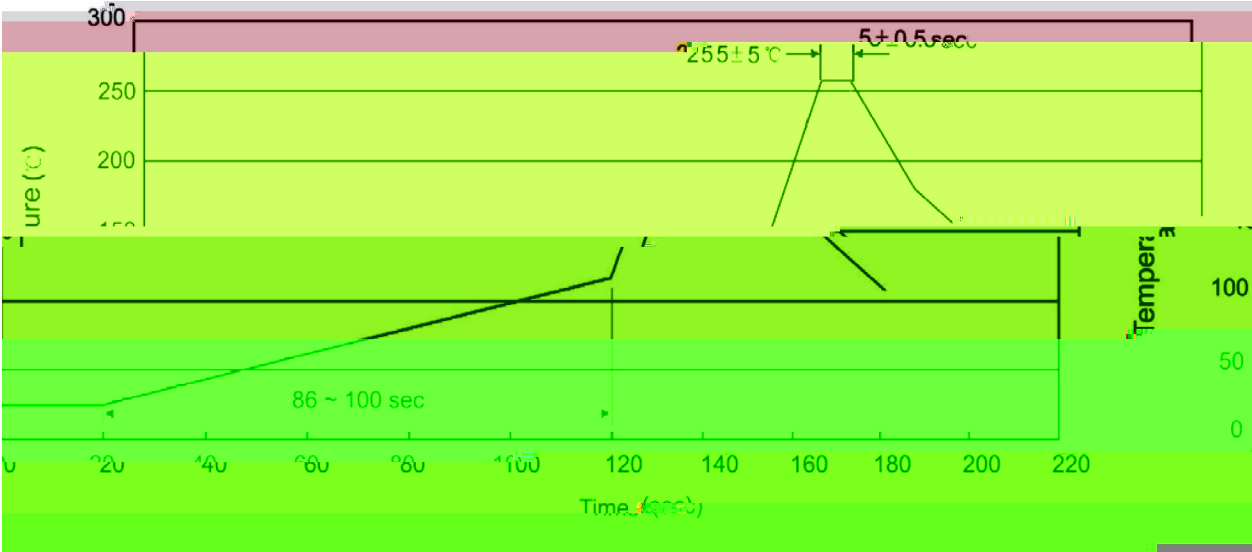
BR: Company Code

MBR30200 Product Type.

CT: Internal Structure

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

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



Note:

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