

**/ Descriptions**

TO-263

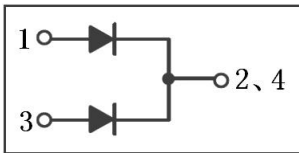
Schottky Diode in a TO-263 Plastic Package.

**/ 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 4 Cathode

PIN 3 Anode

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

See Marking Instructions.

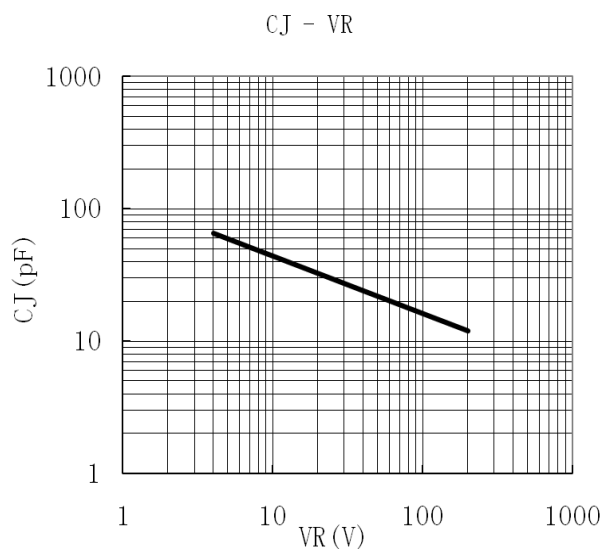
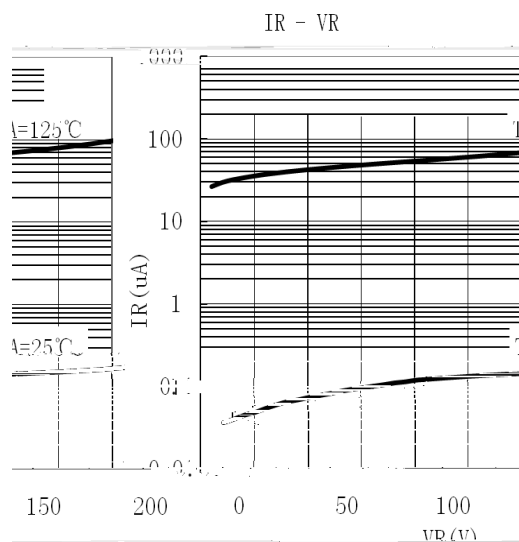
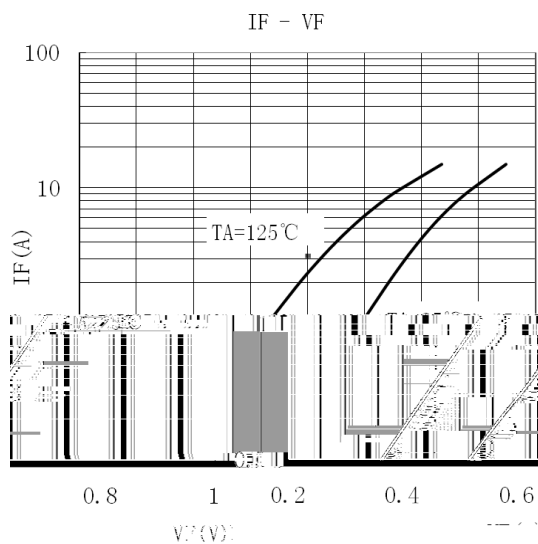
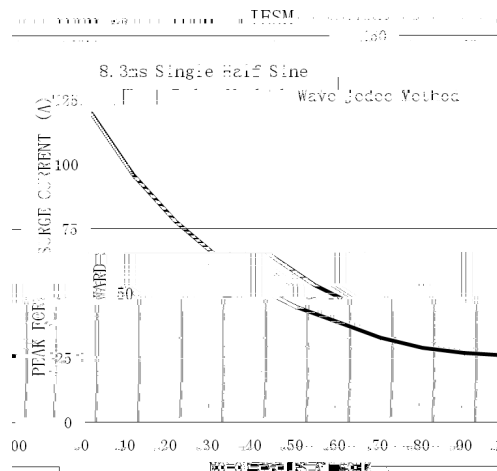
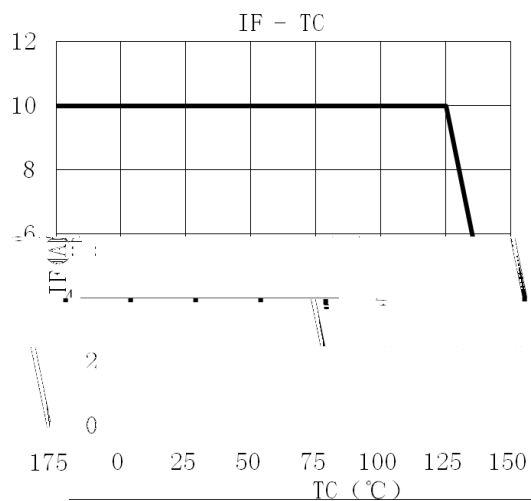
| Parameter                                                                             | Symbol                             | Rating  | Unit |
|---------------------------------------------------------------------------------------|------------------------------------|---------|------|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Reverse Voltage | $V_{RRM}$<br>$V_{RWM}$<br>$V_{RM}$ | 200     | V    |
| DC Blocking Voltage                                                                   | $V_{R(RMS)}$                       | 140     | V    |
| Average forward rectified Current                                                     | $I_{F(AV)}$                        | 2×5     | A    |
| Non Repetitive Peak Surge Current                                                     | $I_{FSM}$                          | 120     | A    |
| Junction Temperature Range                                                            | $T_{j\ MAX}$                       | 150     |      |
| Storage Temperature Range                                                             | $T_{stg}$                          | -65 150 |      |

| Parameter                     | Symbol          | Test Conditions      | Min | Typ  | Max  | Unit |
|-------------------------------|-----------------|----------------------|-----|------|------|------|
| Reverse Voltage               | $V_{(BR)R}$     | $I_R=0.3mA$          | 200 |      |      | V    |
| Peak Forward Voltage          | $V_{FM}$        | $I_F=5.0A$ $T_j=25$  |     | 0.80 | 0.85 | V    |
|                               |                 | $I_F=5.0A$ $T_j=125$ |     | 0.68 | 0.75 | V    |
|                               |                 | $I_F=10A$ $T_j=25$   |     | 0.88 | 0.95 | V    |
|                               |                 | $I_F=10A$ $T_j=125$  |     | 0.77 | 0.85 | V    |
| Instantaneous Reverse Current | $I_R$<br>Note 1 | $V_R=200V$ $T_j=25$  |     |      | 10   | uA   |
|                               |                 | $V_R=150V$ $T_j=125$ |     |      | 1    | mA   |
|                               |                 | $V_R=200V$ $T_j=125$ |     |      | 5    | mA   |

/Notes

1.

/ Electrical Characteristic Curve



# MBRB10200CT

Rev.G Dec.-2017



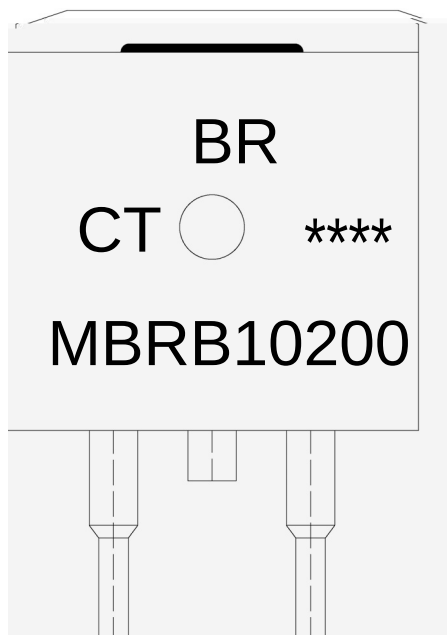
**蓝箭电子**  
BLUE ROCKET ELECTRONICS

**DATA SHEET**

## / Package Dimensions



## / Marking Instructions



BR

MBRB10200

CT:

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Note:

BR:

Company Code

MBRB10200

Product Type.

CT:

Internal Structure

\*\*\*\*:

Lot No. Code, code change with Lot No.

