## / Descriptions

TO-263

Schottky Diode in a TO-263 Plastic Package.

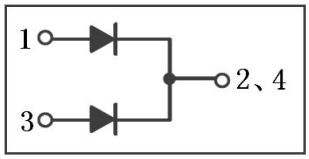
## / Features

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.

## / Absolute Maximum Ratings(Ta=25 )

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Reverse Voltage | $V_{RRM}$<br>$V_{RWM}$<br>$V_{RM}$ | 100 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 70 | V |
| Average forward rectified Current | $I_F$ | 2X5 | A |
| Non Repetitive Peak Surge Current | $I_{FSM}$ | 125 | A |
| Thermal Resistance Junction to Case | $R_{\theta Jc}$ | 2.5 | /W |
| Junction Temperature Range | $T_j$ | 150 | |
| Storage Temperature Range | $T_{stg}$ | -55 150 | |

## / Electrical Characteristics(Ta=25 )

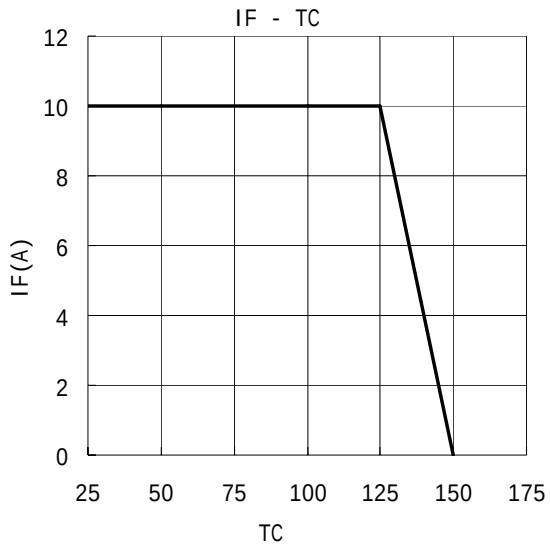
| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Reverse Voltage | $V_R$ | $I_R$ =0.3mA | 100 | | | V |
| Forward Voltage | $V_{FM}$ | $I_F$ =5.0A $T_j$=25 | | | 0.85 | V |
| | | $I_F$ =5.0A $T_j$=125 | | | 0.75 | V |
| | | $I_F$ =10A $T_j$=25 | | | 0.95 | V |
| | | $I_F$ =10A $T_j$=125 | | | 0.85 | V |
| Instantaneous Reverse Current | $I_R$ Note 1 | $V_R$=100V $T_j$=25 | | | 10 | uA |
| | | $V_R$=70V $T_j$=125 | | | 1 | mA |
| | | $V_R$=100V $T_j$=125 | | | 5 | mA |

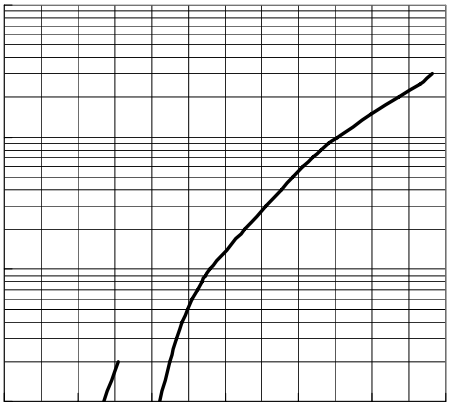
/Notes

1. /Short duration pulse test used to minimize self-heating effect.

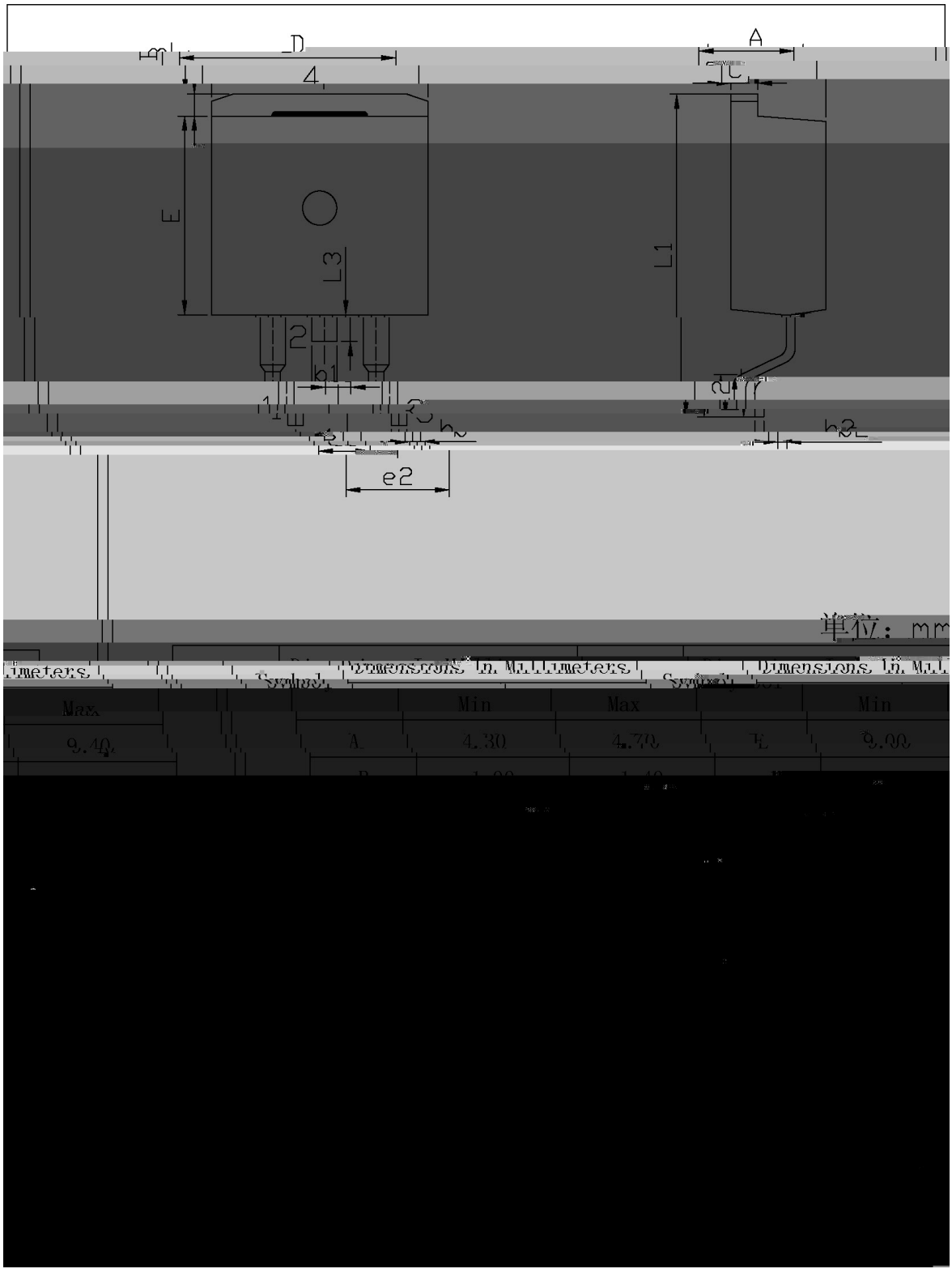
2. / Unless otherwise noted, values for the parameters of a single chip

## / Electrical Characteristic Curve

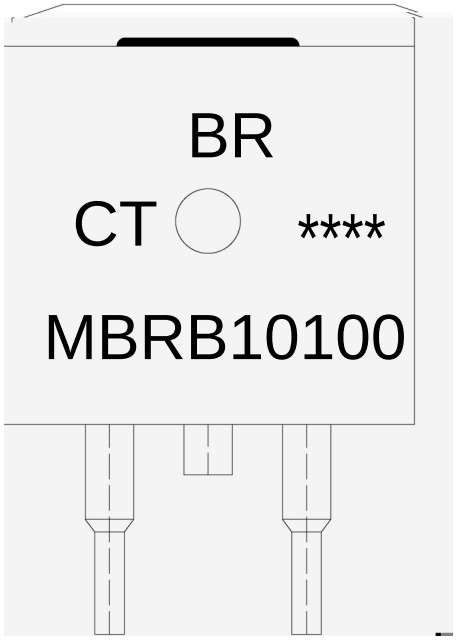


## / Package Dimensions



## / Marking Instructions




BR

MBRB10100

CT:

****

Note:

| | |
|---|---|
| BR: | Company Code |
| MBRB10100 | Product Type. |
| CT: | Internal Structure |
| ****: | Lot No. Code, code change with Lot No. |