

## / Descriptions

TO-220 Plastic Package Schottky Diode.

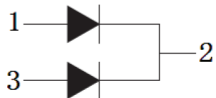
## / Features

Low power loss, high efficiency    High Operating Junction Temperature    Guard ring for overvoltage protection    High reliability    RoHS product

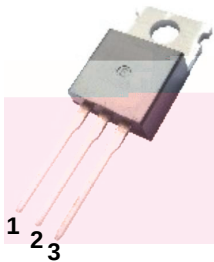
## / Applications

High frequency switch power supply    Free wheeling diodes    polarity protection applications

## / Equivalent Circuit



## / Pinning



PIN1    Anode                      PIN 2    Cathode                      PIN 3    Anode

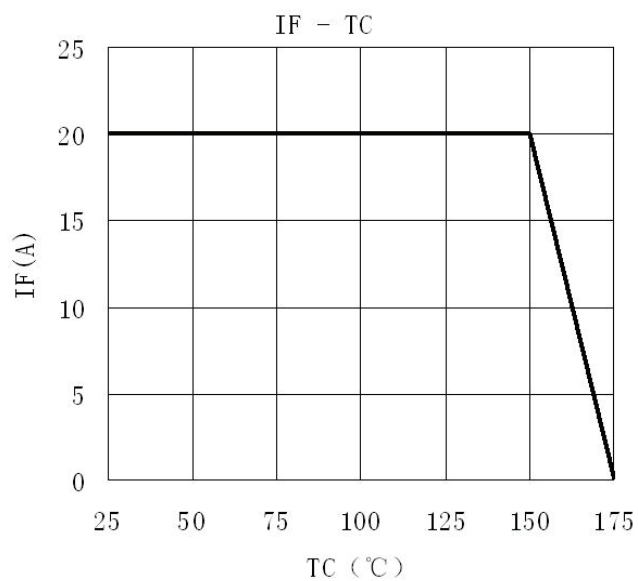
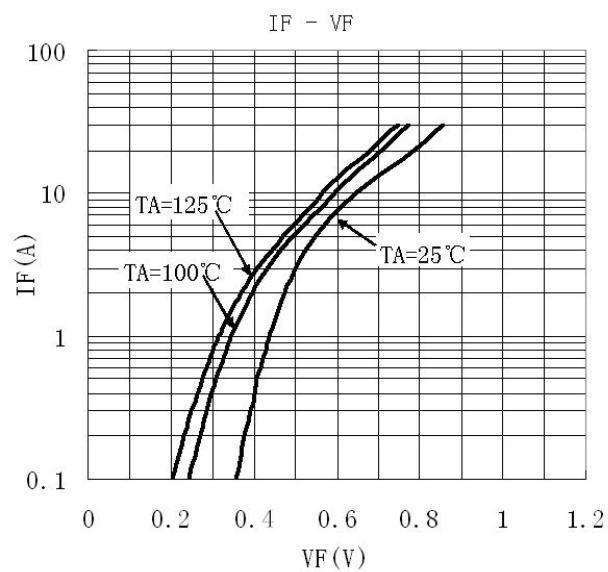
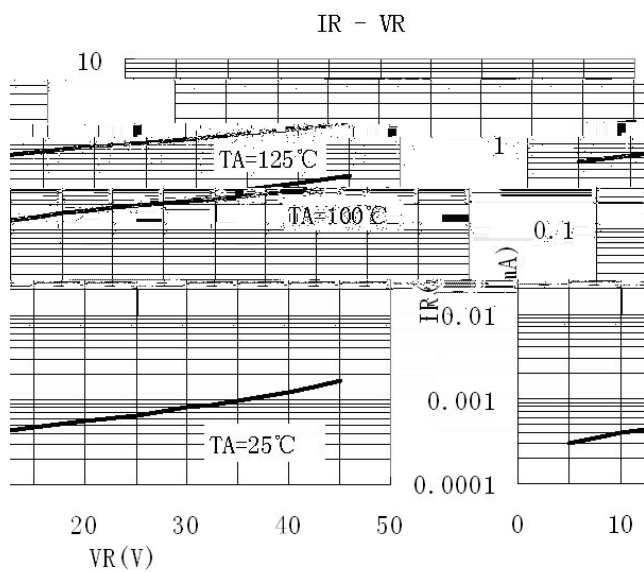
## / $h_{FE}$ Classifications & Marking

See Marking Instructions

| Parameter                                   | Symbol          | Rating  | Unit |
|---------------------------------------------|-----------------|---------|------|
| Peak Repetitive Reverse Voltage             | $V_{RRM}$       | 45      | V    |
| DC Blocking Voltage                         | $V_{DC}$        | 45      | V    |
| Average Rectified Forward Current $T_C=150$ | $I_{F(AV)}$     | 2 10    | A    |
| Non Repetitive Peak Surge Current           | $I_{FSM}$       | 150     | A    |
| Maximum Thermal Resistance Junction to Case | $R_{\theta Jc}$ | 2.7     | /W   |
| Maximum junction temperature                | $T_j$           | 175     |      |
| Storage Temperature Range                   | $T_{stg}$       | -40 150 |      |

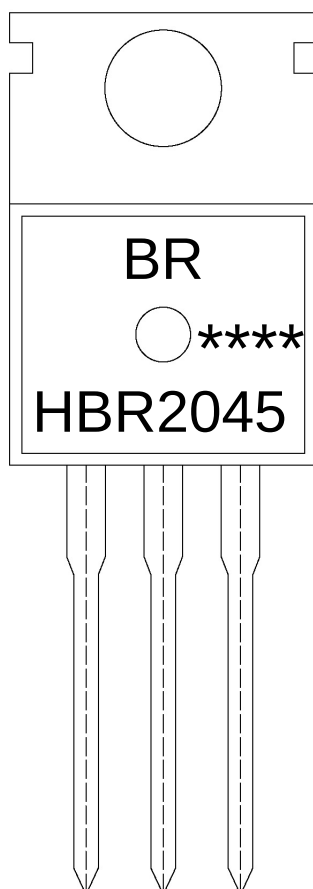
| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-----------|--------|-----------------|-----|-----|-----|------|
|-----------|--------|-----------------|-----|-----|-----|------|

**/ Electrical Characteristic Curve**



||

/ Marking Instructions



BR

Note:

BR:

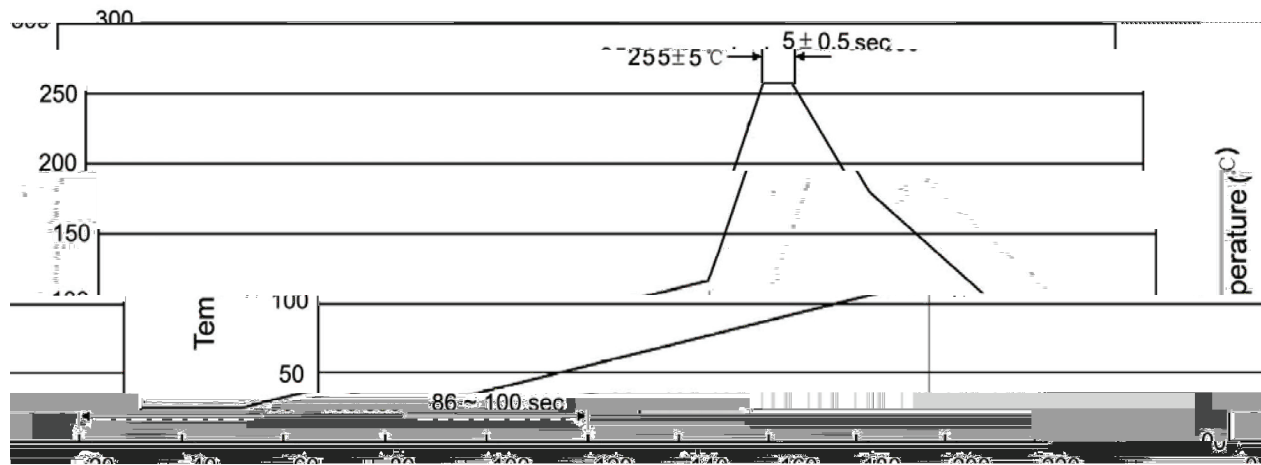
Company Code

Product Type.

\*\*\*\*:

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 包装数量       |                       | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |
|--------------|------------------|-----------------------|-----------------------------------------|
| 封装形式         | Units/Bag<br>只/袋 | Bags/Inner Box<br>袋/盒 | Units/Inner Box<br>只/盒                  |