

## 描述

Ultrafast Recovery rectifier bridge in a GBJ Plastic Package.

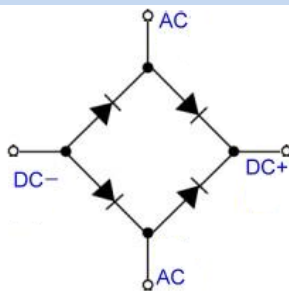
## 特征

Glass passivated process to produce Ultrafast Recovery rectifier bridge ,with low reverse leakage current and high reliability.

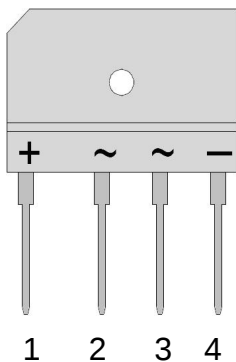
## 用途

For high frequency, high voltage, high current rectifier diode, freewheeling diode。

## 内部等效电路



## 引脚排列



PIN1 DC+      PIN2 AC      PIN3 AC      PIN4 DC-

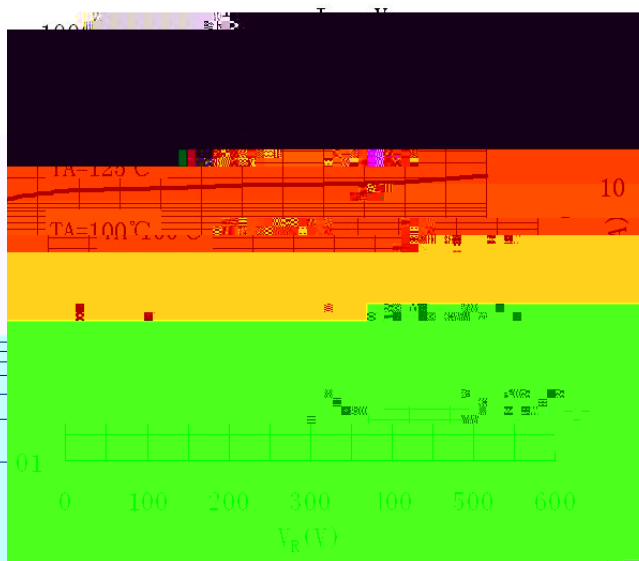
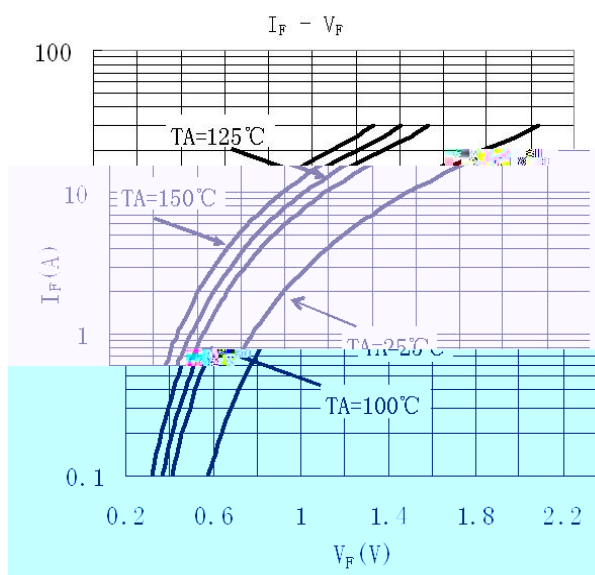
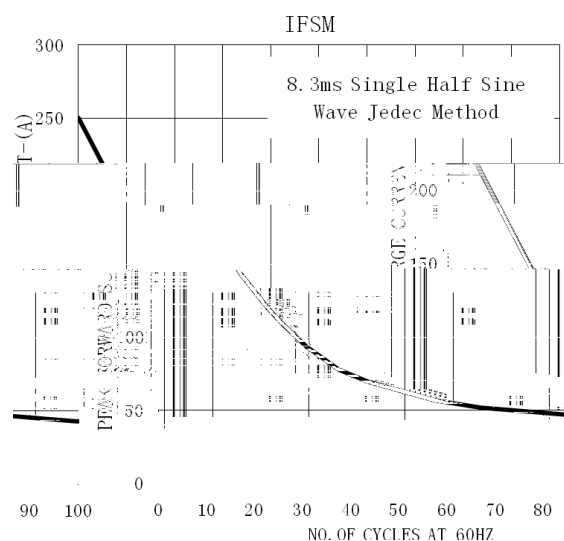
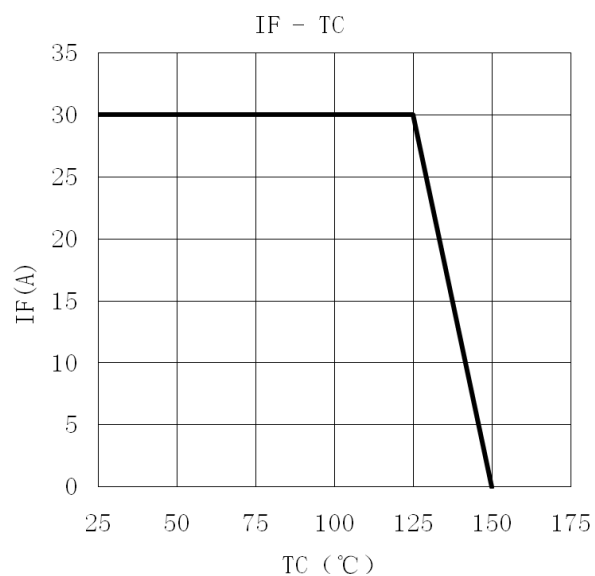
## 放大及印章代码

See Marking Instructions

| Parameter                                   | Symbol          | Rating        | Unit |
|---------------------------------------------|-----------------|---------------|------|
| Peak Repetitive Reverse Voltage             | $V_{RRM}$       | 600           | V    |
| Maximum RMS Voltage                         | $V_{RMS}$       | 420           | V    |
| Maximum DC Blocking Voltage                 | $V_{DC}$        | 600           | V    |
| Maximum Average Forward Current             | $I_{(AV)}$      | $4 \times 30$ | A    |
| Peak forward surge current                  | $I_{FSM}$       | 250           | A    |
| Typical Thermal Resistance Junction to Case | $R_{\theta JC}$ | 0.6           | /W   |
| Junction Temperature Range                  | $T_J$           | 150           |      |
| Storage Temperature Range                   | $T_{stg}$       | -55~150       |      |

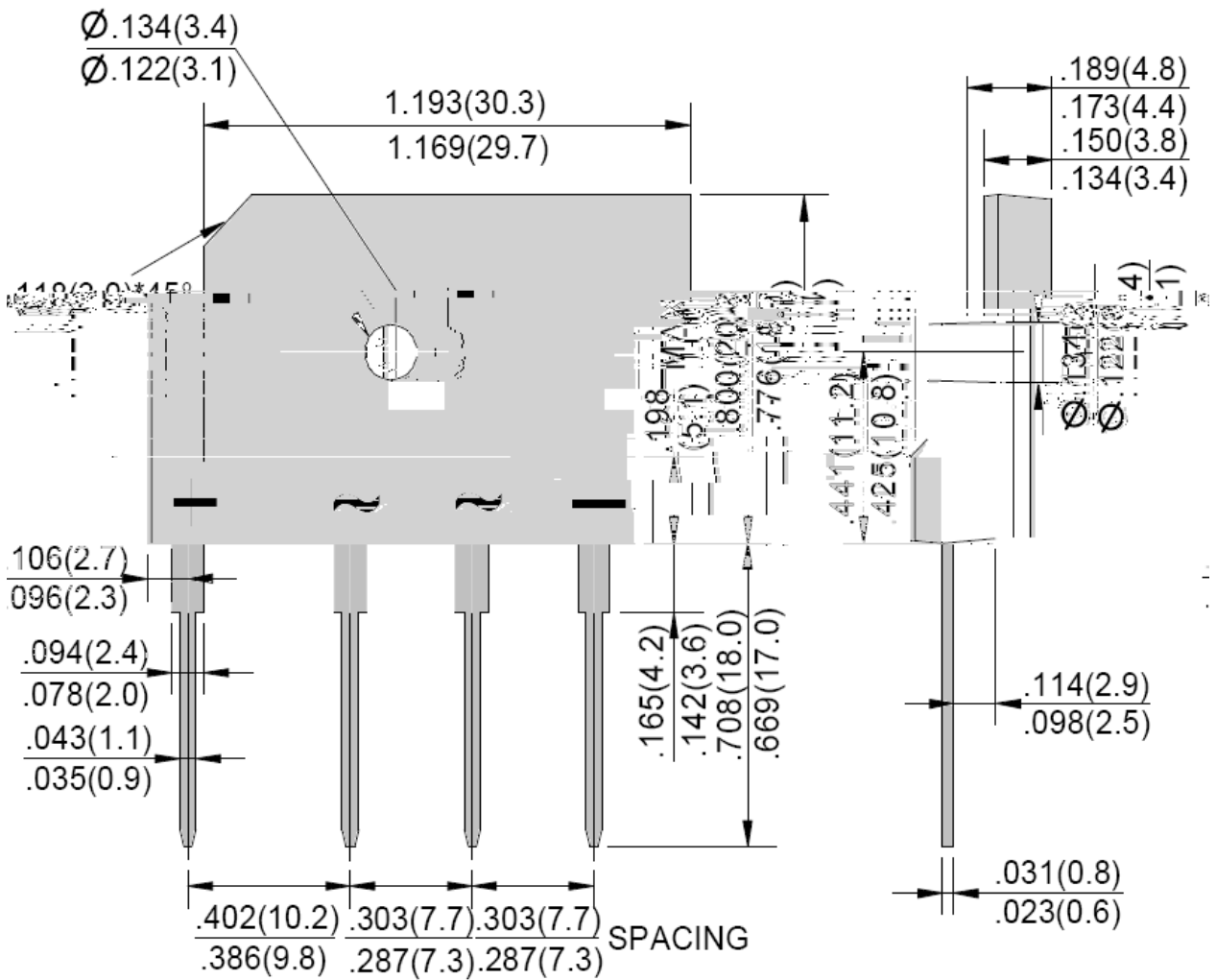
| Parameter                     | Symbol            | Test Conditions                             | Min | Typ  | Max  | Unit    |
|-------------------------------|-------------------|---------------------------------------------|-----|------|------|---------|
| Reverse Voltage               | $V_R$             | $I_R=1mA$                                   | 600 | 680  |      | V       |
| Forward Voltage               | $V_F$             | $I_F=5A \quad T_C=25^\circ C$               |     | 1.32 | 1.45 | V       |
|                               |                   | $I_F=5A \quad T_C=125^\circ C$              |     | 0.90 | 1.25 |         |
|                               |                   | $I_F=15A \quad T_C=25^\circ C$              |     | 1.90 | 2.25 |         |
|                               |                   | $I_F=15A \quad T_C=125^\circ C$             |     | 1.26 | 1.65 |         |
|                               |                   | $I_F=30A \quad T_C=25^\circ C$              |     | 2.35 | 2.65 |         |
|                               |                   | $I_F=30A \quad T_C=125^\circ C$             |     | 1.65 | 2.15 |         |
| Instantaneous Reverse Current | $I_R$<br>(Note 1) | $V_R=600V \quad T_a=25^\circ C$             |     |      | 10   | $\mu A$ |
|                               |                   | $V_R=600V \quad T_a=125^\circ C$            |     |      | 500  |         |
| Reverse Recovery Time         | $t_{rr}$          | $I_F=0.5A \quad I_R=1.0A$<br>$I_{RR}=0.25A$ |     | 40   | 50   | ns      |

62 251.5

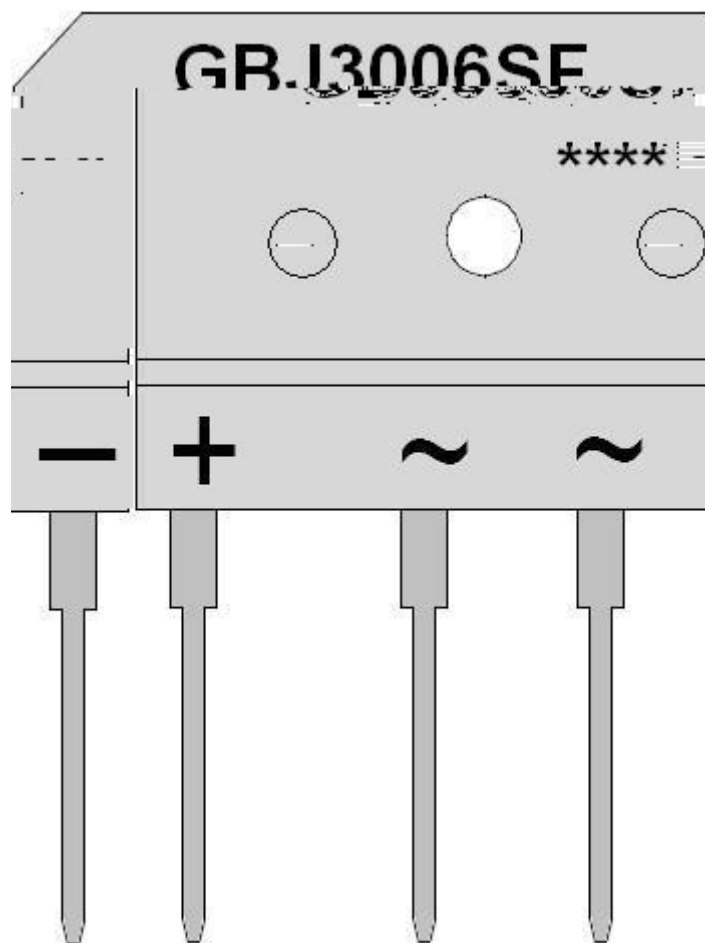
**电参数曲线图**


## 外形尺寸图

## GBJ



## 印章说明



GBJ3006SF

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Note:

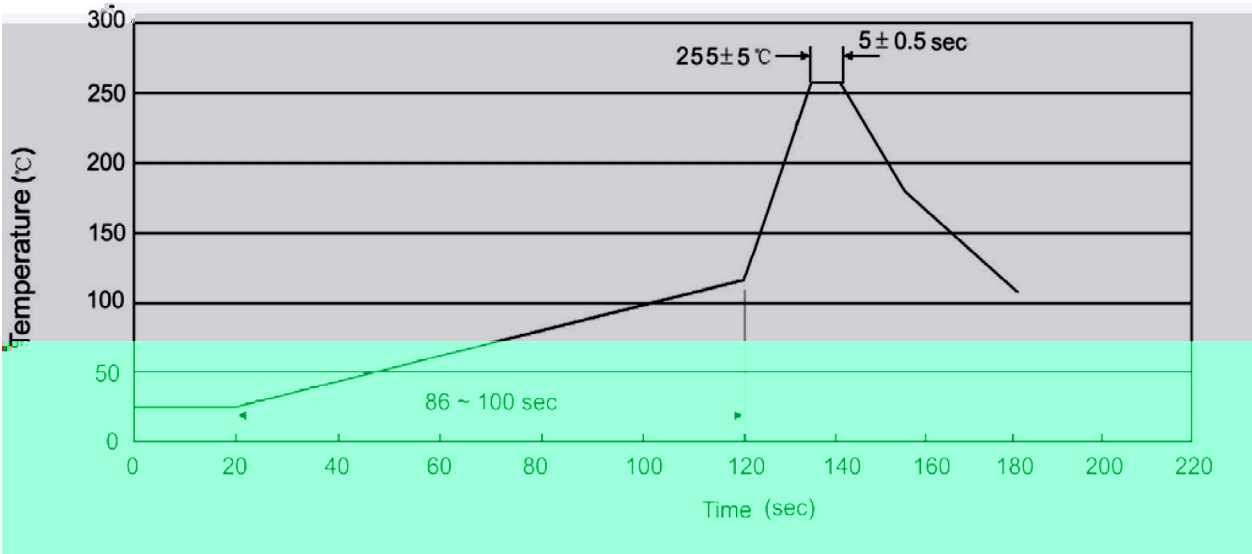
GBJ3006SF

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Product Type

Lot No. Code, code change with Lot No.

**波峰焊温度曲线图 无铅**



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.            |

**耐焊接热试验条件**

270 5                      10 1 sec.                      Temp.:270±5                      Time:10±1 sec

**包装规格**

/ BULK

| Package Type | Units      |                 |            |                 |            | Dimension (unit mm <sup>3</sup> ) |                   |                   |
|--------------|------------|-----------------|------------|-----------------|------------|-----------------------------------|-------------------|-------------------|
|              | Units/Tube | Tubes/Inner Box | Units/Tube | Tubes/Inner Box | Units/Tube | Tube                              | Inner Box         | Units/Tube        |
| 0 0 0 0      | 0 0        | 0 0             | 0 0 0 0    | 0 0 0           | 0 0 0 0    | 0 0                               | 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 |

/ TUBE

| Package Type | Units      |                 |            |                 |            | Dimension (unit mm <sup>3</sup> ) |                     |                   |
|--------------|------------|-----------------|------------|-----------------|------------|-----------------------------------|---------------------|-------------------|
|              | Units/Tube | Tubes/Inner Box | Units/Tube | Tubes/Inner Box | Units/Tube | Tube                              | Inner Box           | Units/Tube        |
| 0 0 0 0      | 0 0 0      | 0 0 0           | 0 0 0 0    | 0 0             | 0 0 0 0 0  | 471×42×10                         | 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 |

**使用说明**