

**描述 / Descriptions**

0.8A 表面贴装玻璃钝化整流桥，薄型 ABS/LBF 封装。  
0.8A Surface Mount Glass Passivated Bridge Rectifier, ABS/LBF thin package.

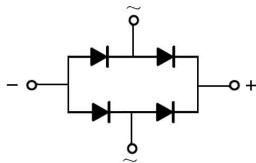
**特征 / Features**

玻璃钝化芯片，浪涌电流大，反向电压：100V~1000V 正向电流：0.8A，适用于表面贴装。无卤产品。  
Glass Passivated Chip Junction, Reverse Voltage :100 to 1000V, Forward Current: 0.8A, High Surge Current Capability, Designed for Surface Mount Application. Halogen free product.

**用途 / Applications**

一般用途。  
General purpose.

**内部等效电路 / Equivalent Circuit**

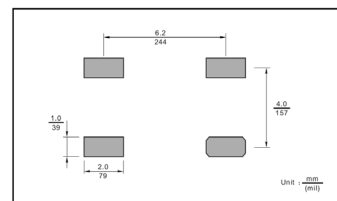


**引脚排列 / Pinning**



| PIN | DESCRIPTION          |
|-----|----------------------|
| 1   | Input Pin ( ~ )      |
| 2   | Input Pin ( ~ )      |
| 3   | Output Anode ( + )   |
| 4   | Output Cathode ( - ) |

The recommended mounting pad size



**印章代码 / Marking**

见印章说明。See Marking Instructions.

**极限参数 / Absolute Maximum Ratings(Ta=25°C)**

| 参数<br>Parameter   | 符号<br>Symbol                      | 数值<br>Rating |      |      |      |      |       | 单位<br>Unit |
|---|-----------------------------------|--------------|------|------|------|------|-------|------------|
|   |                                   | ABS1         | ABS2 | ABS4 | ABS6 | ABS8 | ABS10 |            |
| Maximum Repetitive Peak Reverse Voltage   | V <sub>RRM</sub>                  | 100          | 200  | 400  | 600  | 800  | 1000  | V          |
| Maximum RMS voltage   | V <sub>RMS</sub>                  | 70           | 140  | 280  | 420  | 560  | 700   | V          |
| Maximum DC Blocking Voltage   | V <sub>DC</sub>                   | 100          | 200  | 400  | 600  | 800  | 1000  | V          |
| Average Rectified Output Current at Ta = 40 ° C   | I <sub>o</sub>                    | 0.8          |      |      |      |      |       | A          |
| Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method) | I <sub>FSM</sub>                  | 30           |      |      |      |      |       | A          |
| Typical Junction Capacitance <sup>(Note1)</sup>   | C <sub>i</sub>                    | 13           |      |      |      |      |       | pF         |
| Typical Thermal Resistance <sup>(Note2)</sup>   | R <sub>θJA</sub>                  | 85           |      |      |      |      |       | °C/W       |
|   | R <sub>θJL</sub>                  | 30           |      |      |      |      |       | °C/W       |
| Operating and Storage Temperature Range   | T <sub>j</sub> , T <sub>stg</sub> | -55~150      |      |      |      |      |       | °C         |

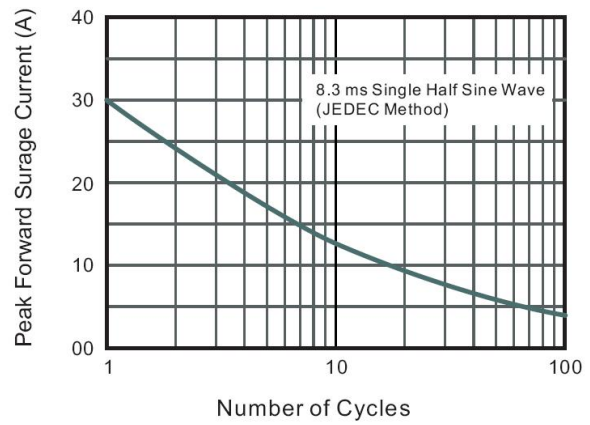
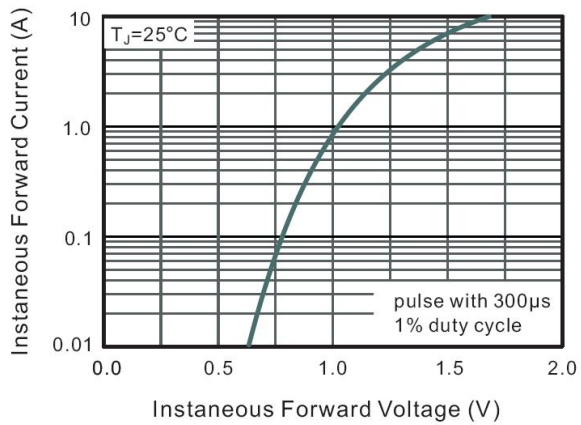
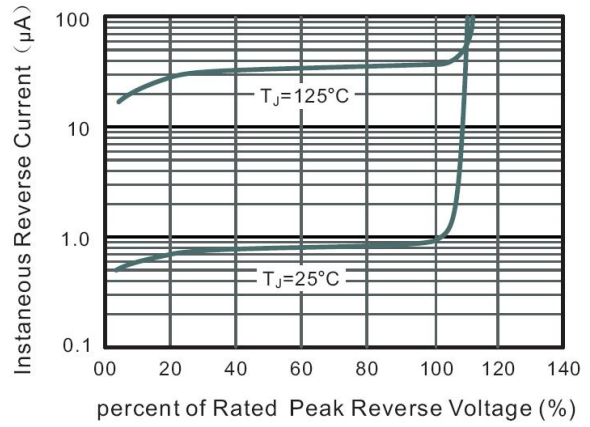
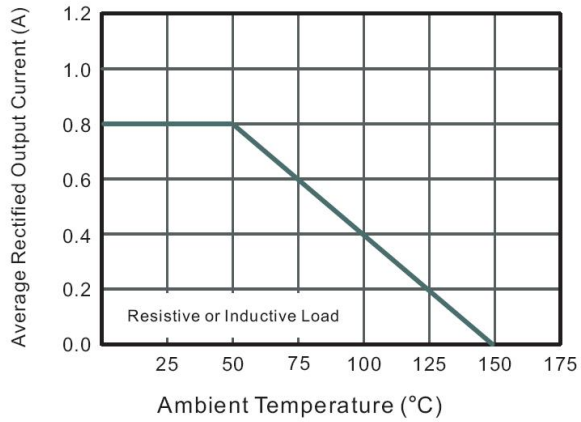
Note:

1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with 4×(5×5mm<sup>2</sup>) copper pad.

**电性能参数 / Electrical Characteristics(Ta=25°C)**

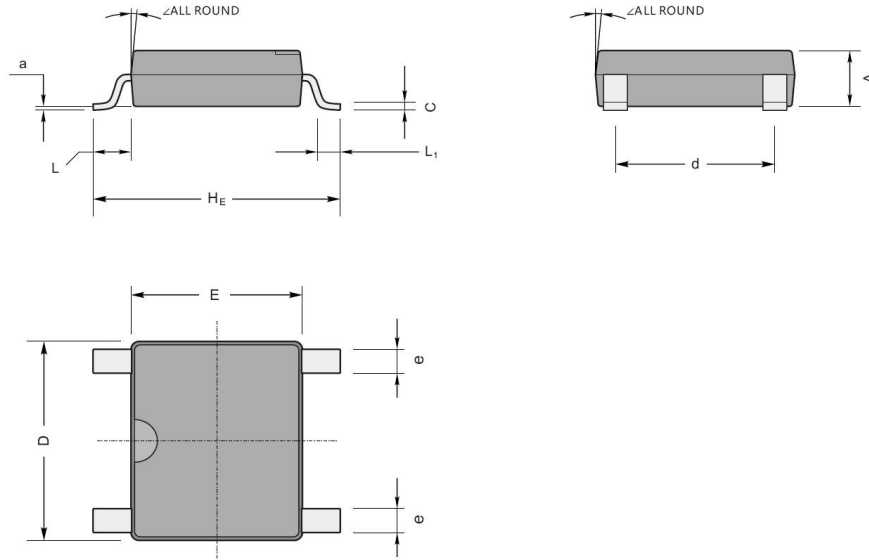
| 参数<br>Parameter   | 符号<br>Symbol   | 测试条件<br>Test Conditions | 数值<br>Rating | 单位<br>Unit |
|---|----------------|-------------------------|--------------|------------|
| Forward Voltage per element                               | V <sub>F</sub> | I <sub>F</sub> =0.4A    | 1.0          | V          |
|   |                | I <sub>F</sub> =0.8A    | 1.1          |            |
| Maximum DC Reverse Current at Maximum DC Blocking Voltage | I <sub>R</sub> | T <sub>a</sub> =25°C    | 5.0          | μA         |
|   |                | T <sub>a</sub> =100°C   | 50           |            |
|   |                | T <sub>a</sub> =125°C   | 100          |            |

电参数曲线图 / Electrical Characteristic Curve



外形尺寸图 / Package Dimensions

ABS/LBF



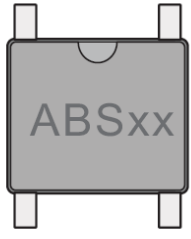
ABS/LBF mechanical data

| UNIT |     | A   | C    | D   | E   | H <sub>E</sub> | d   | e   | L    | L <sub>1</sub> | a   | ∠  |
|------|-----|-----|------|-----|-----|----------------|-----|-----|------|----------------|-----|----|
| mm   | max | 1.5 | 0.22 | 5.2 | 4.5 | 6.4            | 4.2 | 0.7 | 0.95 | 0.6            | 0.2 | 7° |
|      | min | 1.3 | 0.15 | 4.9 | 4.2 | 6.0            | 3.8 | 0.5 |      |                |     |    |
| mil  | max | 59  | 8.7  | 205 | 177 | 252            | 165 | 28  | 37   | 24             | 4   |    |
|      | min | 51  | 5.9  | 193 | 166 | 236            | 150 | 20  |      |                |     |    |

印章说明 / Marking Instructions

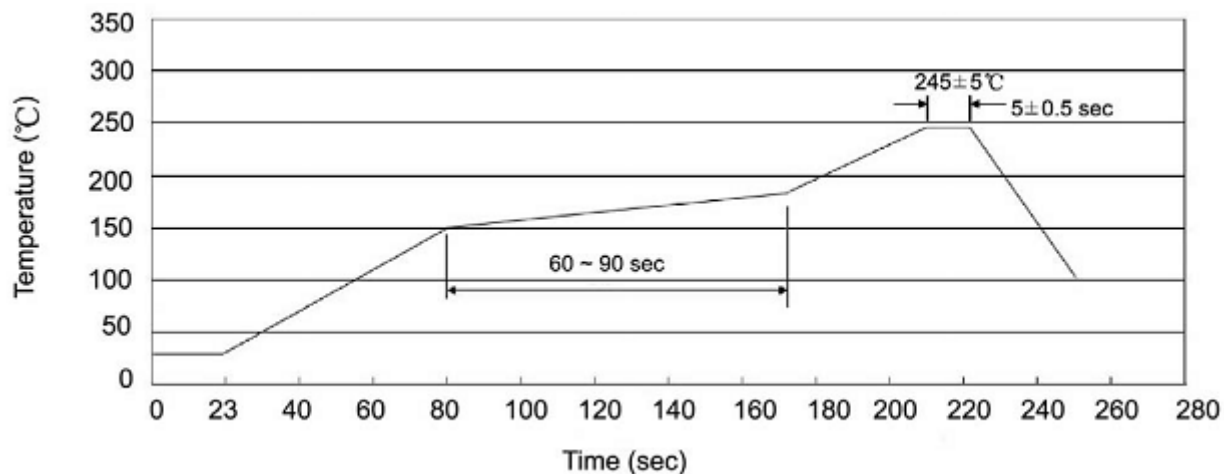
### Marking

| Type number | Marking code |
|-------------|--------------|
| ABS1        | ABS1         |
| ABS2        | ABS2         |
| ABS4        | ABS4         |
| ABS6        | ABS6         |
| ABS8        | ABS8         |
| ABS10       | ABS10        |

The diagram shows a rectangular component with four pins (two on the top, two on the bottom) and a semi-circular notch on the top edge. The marking code 'ABSxx' is printed in the center of the component.

**回流焊温度曲线图(无铅) / Temperature Profile for IR Reflow Soldering(Pb-Free)**



说明：

- 1、预热温度 25~150°C，时间 60~90sec;
- 2、峰值温度 245±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2~10°C/sec.

Note:

- 1.Preheating:25~150°C, Time:60~90sec.
- 2.Peak Temp.:245±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

**耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions**

温度：260±5°C

时间：10±1 sec.

Temp.:260±5°C

Time:10±1 sec

**包装规格 / Packaging SPEC.**

卷盘包装 / REEL

| Package Type<br>封装形式 | Units 包装数量         |                         |                        |                              |                        | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |             |             |
|----------------------|--------------------|-------------------------|------------------------|------------------------------|------------------------|---|-------------|-------------|
|                      | Units/Reel<br>只/卷盘 | Reels/Inner Box<br>卷盘/盒 | Units/Inner Box<br>只/盒 | Inner Boxes/Outer Box<br>盒/箱 | Units/Outer Box<br>只/箱 | Reel                                    | Inner Box 盒 | Outer Box 箱 |
| ABS/LBF              | 5000               | 2                       | 10000                  | 5                            | 50000                  | 13" ×15                                 | 336X336X40  | 345X345X235 |

**使用说明 / Notices**