

产品规格书  
DATA SHEET

|       |                    |
|-------|--------------------|
| 产品名称： | 单相整流桥              |
| 产品型号： | KBL406 thus KBL410 |
| 产品描述： | 玻璃钝化芯片整流桥          |
|       | 4A ( 600V-1000V )  |

|     |    |    |
|-----|----|----|
| 制作人 | 审核 | 核准 |
|     |    |    |

变更履历：

|             |      |     |             |     |    |
|-------------|------|-----|-------------|-----|----|
| 更改日期        | 版次   | 变更前 | 变更后         | 修改人 | 备注 |
| 2017. 9. 21 | 1. 0 | /   | 首版          | 孙晓佳 |    |
| 2022. 2. 24 | 1. 1 | /   | 增加 5mm 引尺寸图 | 张学金 |    |
|             |      |     |             |     |    |

4A,600V-1000V 玻璃钝化整流桥  
4A,600V-1000V Glass Passivated Bridge Rectifier

特征 Features

玻璃钝化芯片

Glass passivated chip

低反向漏电流

Low Reverse Leakage Current

高耐浪涌电流能力达120安培

High surge current capability to 120 Amperes

塑封料已经UL可燃性认证94V-0，UL档案编号：E249161

Plastic material has Underwriters Laboratory flammability recognition 94V-0，Recognized File # E249161



符合ROHS要求，其中铅被欧盟ROHS指令2011/65/EU豁免。

In accordance with the ROHS requirements, lead was exempted from ROHS 2011/65/EU.

高温焊接保证：260°C±5°C/10秒，拉力2.3 Kgf.cm

High temperature soldering guaranteed: 260°C±5°C/10 seconds (2.3 Kgf.cm)tension.

机械参数 Mechanical Data

本体：塑封

Case: Molded plastic case

极性：极性符号铸在管体上

Polarity: Polarity symbols being marked on body

重量：约4.5克

Weight: About 4.5grams

| 最大额定值 Maximum Ratings Parameter@ Ta = 25℃ unless otherwise noted      |                                                                            |                                         |                   |                    |     |      |                  |
|-----------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------|-------------------|--------------------|-----|------|------------------|
| 名词解释<br>Noun interpretation                                           | 参数条件<br>Conditions                                                         |                                         | 符号<br>Symbol      | 额定值<br>Rated Value |     |      | 单位<br>Unit       |
|                                                                       |                                                                            |                                         |                   | 06                 | 08  | 10   |                  |
| 反向重复峰值电压<br>Maximum Recurrent Peak Reverse Voltage                    |                                                                            |                                         | V <sub>RRM</sub>  | 600                | 800 | 1000 | V                |
| 反向不重复峰值电压<br>Reverse non-repetitive peak voltage                      |                                                                            |                                         | V <sub>RSM</sub>  | 700                | 900 | 1100 | V                |
| 平均整流输出电流 Average Rectified Output Current                             | 50Hz 正弦波负载<br>50Hz sine wave load                                          | 带散热片, Ta=40℃<br>With heat sink , Ta=40℃ | I <sub>(AV)</sub> | 4                  |     |      | A                |
| 最大正向浪涌电流<br>Peak Surge Forward Current                                | 50HZ 正弦波,一个周期, Tj=25℃<br>50HZ sine wave,1 cycle , Tj=25℃.                  |                                         | I <sub>FSM</sub>  | 120                |     |      | A                |
| 热容值 Rating for fusing                                                 | 1ms<t<8.3ms,Tj=25℃, 单个二极管<br>1ms<t<8.3ms,Tj=25℃, Rating of per diode       |                                         | I <sup>2</sup> t  | 59.7               |     |      | A <sup>2</sup> s |
| 结温<br>Junction temperature                                            |                                                                            |                                         | T <sub>J</sub>    | -55 ~ +150         |     |      | ℃                |
| 存储温度 Storage Temperature                                              |                                                                            |                                         | T <sub>STG</sub>  | -55 ~ +150         |     |      | ℃                |
| 电性特性 Electrical Characteristics ( Ta=25℃ Unless otherwise specified ) |                                                                            |                                         |                   |                    |     |      |                  |
| 正向峰值电压 Peak Forward Voltage                                           | IF=4A, 脉冲测试, 单个二极管的额定值<br>IF=4A,Pulse measurement , Rate of per diode      | Ta=25℃                                  | V <sub>F</sub>    | 1.1                |     |      | V                |
| 反向峰值电流<br>Peak Reverse Current                                        | VR=VRRM, 脉冲测试, 单个二极管的额定值<br>VR=VRRM, Pulse measurement Rating of per diode | Tj=25℃                                  | I <sub>R</sub>    | 5                  |     |      | μA               |
|                                                                       |                                                                            | Tj=125℃                                 |                   | 500                |     |      |                  |
| 热阻<br>Thermal resistance                                              | 结到环境的热阻<br>Between junction and ambient                                    |                                         | R <sub>θJA</sub>  | 42                 |     |      | ℃/W              |
|                                                                       | 结到引线的热阻<br>Between junction andlead                                        |                                         | R <sub>θJL</sub>  | 15                 |     |      |                  |

## 特性曲线 Characteristic Curve

FIG.1 . Derating Curve For Output Rectified Current

图 1. 电流降额曲线

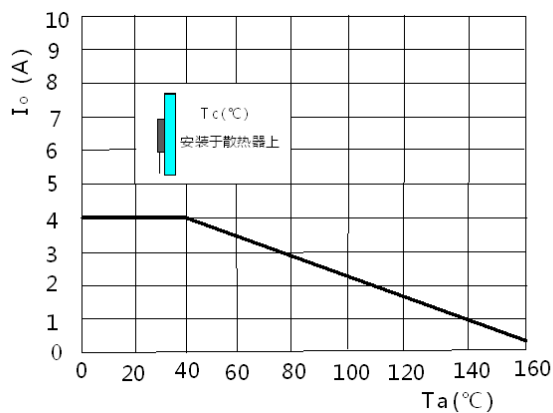


图 2. 最大正向不重复峰值浪涌电流

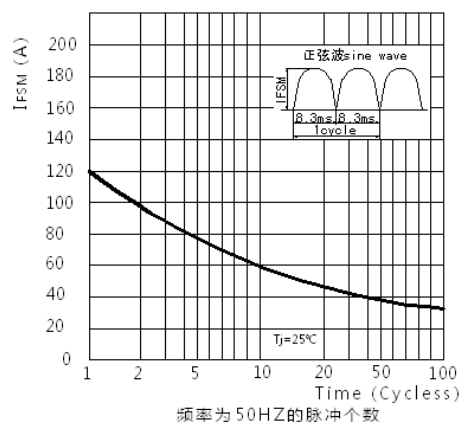


FIG3.Typical Reverse Characteristics Per Bridge Element

图 3. 典型反向特性

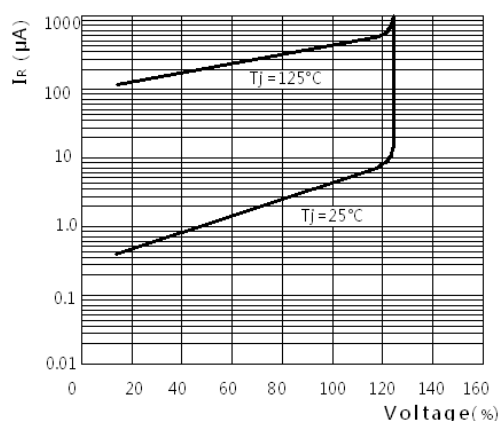
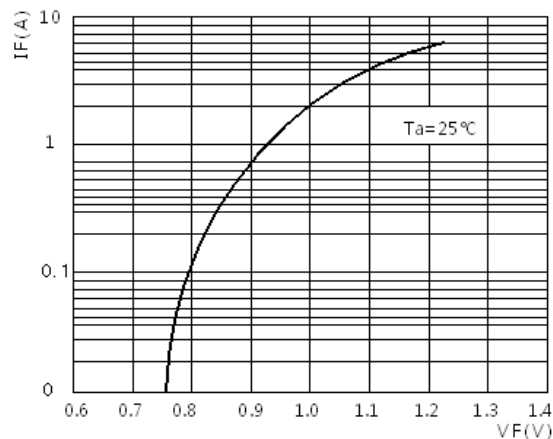


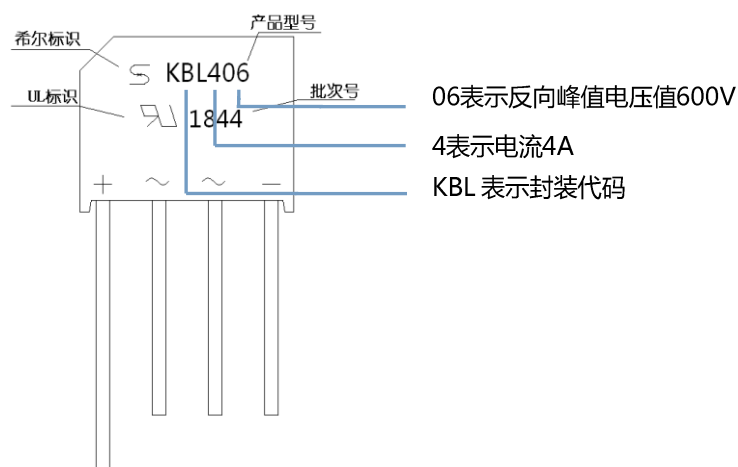
FIG4.Typical Forward Characteristics Per Bridge Element

图 4. 典型正向特性



## 标记图

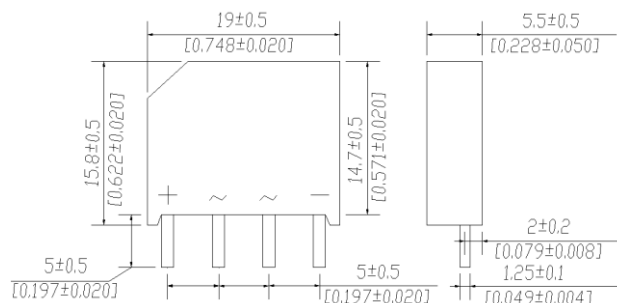
## Marking Diagram



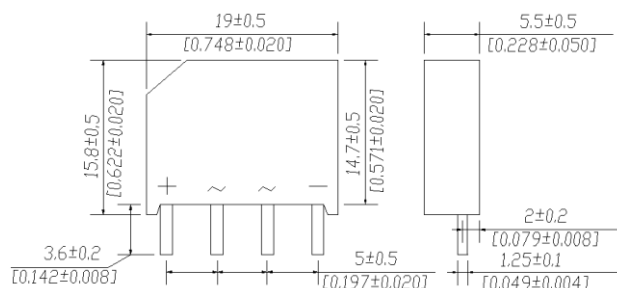
## 尺寸图

### Dimensioned drawing

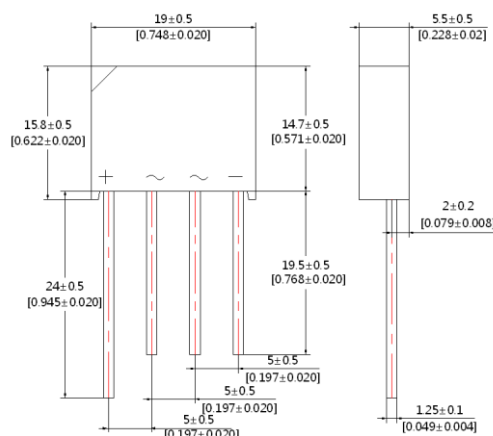
5mm 短脚:



3.6mm 短脚:



长脚:



### Dimensions in millimeters and inches

#### Notice

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