



## 桥式整流器 Bridge Rectifier

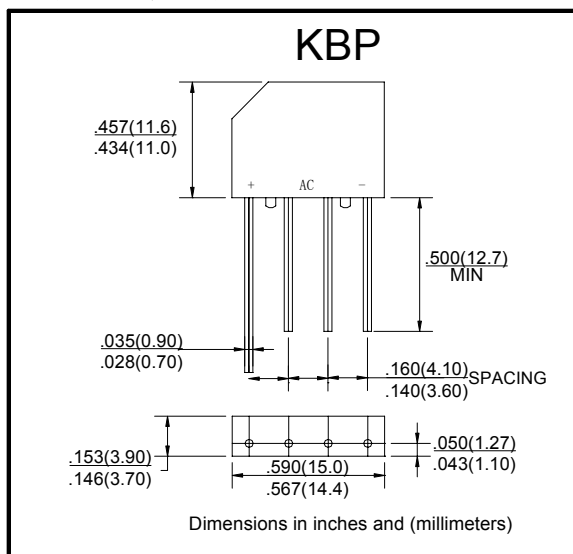
## ■特征 Features

- $I_o$  3A
- $V_{RRM}$  50V~1000V
- 玻璃钝化芯片  
Glass passivated chip
- 耐正向浪涌电流能力高  
High surge forward current capability

## ■用途 Applications

- 作一般电源单相桥式整流器  
General purpose 1 phase Bridge rectifier applications

## ■外形尺寸和印记 Outline Dimensions and Mark



## ■极限值（绝对最大额定值）

## Limiting Values(Absolute Maximum Rating)

| 参数名称<br>Item                                        | 符号<br>Symbol | 单位<br>Unit           | 条件<br>Conditions                                                                                                                                     | KBP3      |     |     |     |     |     |      |
|-----------------------------------------------------|--------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----|-----|-----|-----|-----|------|
|                                                     |              |                      |                                                                                                                                                      | 005       | 01  | 02  | 04  | 06  | 08  | 10   |
| 反向重复峰值电压<br>Repetitive Peak Reverse Voltage         | $V_{RRM}$    | V                    |                                                                                                                                                      | 50        | 100 | 200 | 400 | 600 | 800 | 1000 |
| 平均整流输出电流<br>Average Rectified Output Current        | $I_o$        | A                    | 60Hz 正弦波, 电阻负载, $T_a=30^\circ\text{C}$<br>60Hz sine wave, R- load, $T_a=30^\circ\text{C}$                                                            | 3         |     |     |     |     |     |      |
| 正向（不重复）浪涌电流<br>Surge(Non-repetitive)Forward Current | $I_{FSM}$    | A                    | 60Hz正弦波, 一个周期, $T_a=25^\circ\text{C}$<br>60Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$                                                             | 80        |     |     |     |     |     |      |
| 正向浪涌电流的平方对电流浪涌持续时间的积分值<br>Current Squared Time      | $I^2t$       | $\text{A}^2\text{s}$ | $1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ , 单个二极管<br>$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ , Rating of per diode | 26.5      |     |     |     |     |     |      |
| 存储温度<br>Storage Temperature                         | $T_{stg}$    | $^\circ\text{C}$     |                                                                                                                                                      | -55 ~+150 |     |     |     |     |     |      |
| 结温<br>Junction Temperature                          | $T_j$        | $^\circ\text{C}$     |                                                                                                                                                      | -55 ~+150 |     |     |     |     |     |      |

■电特性（ $T_a=25^\circ\text{C}$  除非另有规定）Electrical Characteristics ( $T_a=25^\circ\text{C}$  Unless otherwise specified)

| 参数名称<br>Item                                           | 符号<br>Symbol     | 单位<br>Unit                | 测试条件<br>Test Condition                                                                              | 最大值<br>Max |
|--------------------------------------------------------|------------------|---------------------------|-----------------------------------------------------------------------------------------------------|------------|
| 正向峰值电压<br>Peak Forward Voltage                         | $V_{FM}$         | V                         | $I_{FM}=3\text{A}$ , 脉冲测试, 单个二极管的额定值<br>$I_{FM}=3\text{A}$ , Pulse measurement, Rating of per diode | 1.1        |
| 反向峰值电流<br>Peak Reverse Current                         | $I_{RRM}$        | $\mu\text{A}$             | $V_{RM}=V_{RRM}$ , 脉冲测试, 单个二极管的额定值<br>$V_{RM}=V_{RRM}$ , Pulse measurement, Rating of per diode     | 10         |
| 热阻 <sup>(1)</sup><br>Thermal Resistance <sup>(1)</sup> | $R_{\theta J-A}$ | $^\circ\text{C}/\text{W}$ | 结和环境之间<br>Between junction and ambient                                                              | 20         |
|                                                        | $R_{\theta J-L}$ |                           | 结和引线之间<br>Between junction and lead                                                                 | 11         |

说明 (Notes):

(1) PN结到环境温度的热阻以及PN结到安装在PCB上的引线的热阻, 铜片尺寸是0.47×0.47"(12×12mm)

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47×0.47"(12×12mm) copper pads

## ■特性曲线（典型） Characteristics(Typical)

图1:  $I_o$ - $T_a$ 曲线  
FIG1: $I_o$ - $T_a$  Curve

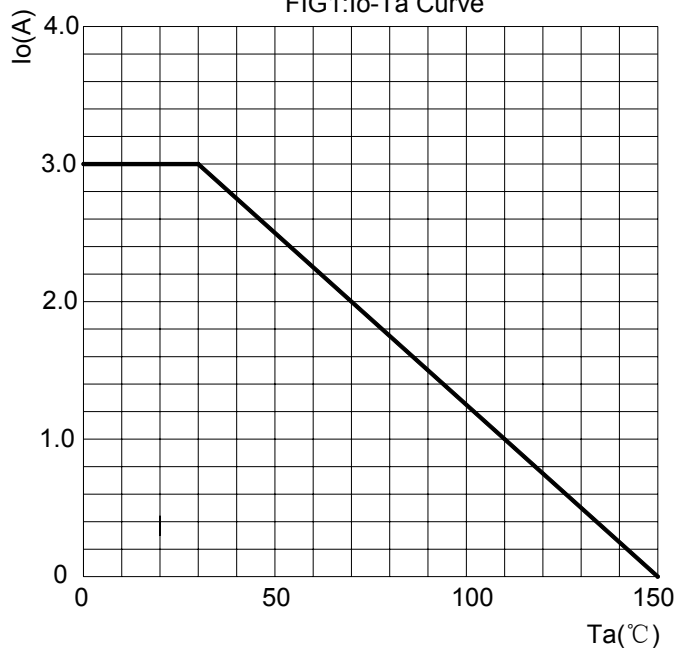


图2: 耐正向浪涌电流曲线  
FIG2: Surge Forward Current Capability

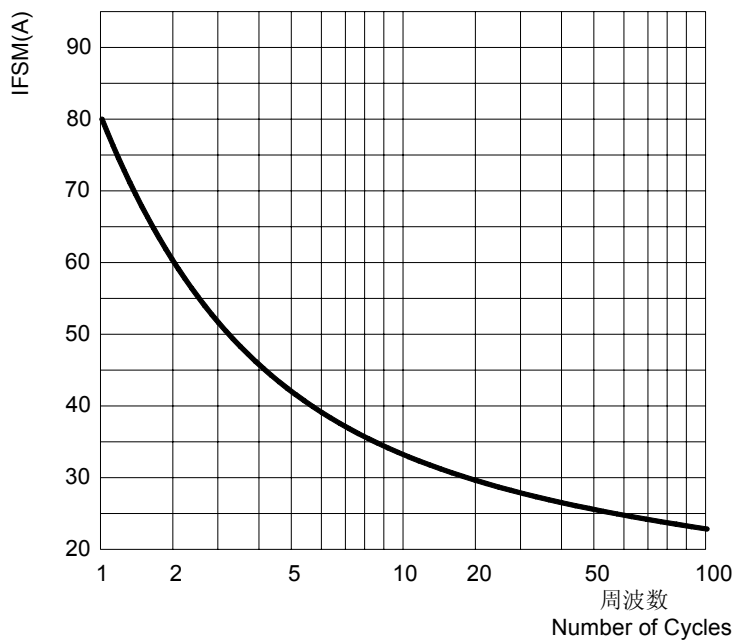


图3: 正向电压曲线  
FIG3: Instantaneous Forward Voltage

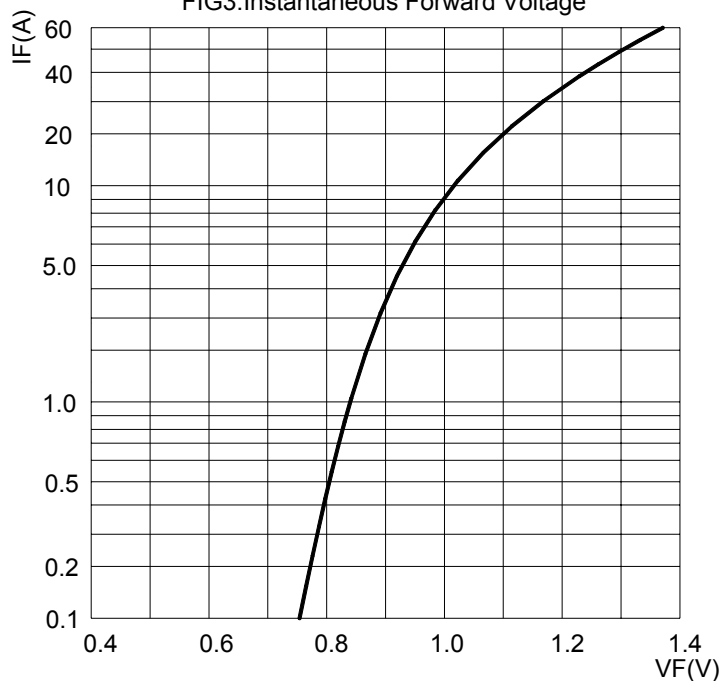


图4: 反向电流曲线  
FIG4: Typical Reverse Characteristics

