

## 单相硅整流桥堆

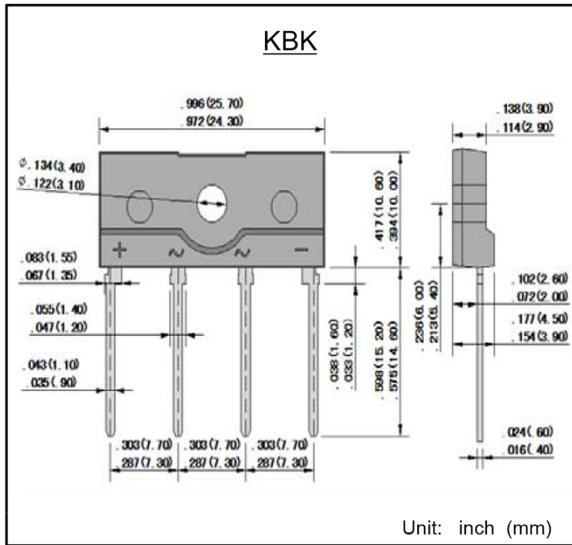
反向电压 50 ~ 1000 V

正向电流 4.0 A

## Single phase Silicon Bridge Rectifiers

Reverse Voltage 50 ~ 1000 V

Forward Current 4.0 A



### 特征 Features

- 反向漏电流低 Low reverse leakage
- 正向浪涌承受能力强 High forward surge capability
- 高信赖性 High reliability
- 玻璃钝化芯片 Glass passivated chip
- 引线 and 管体皆符合RoHS标准  
Lead and body according with RoHS standard
- 型号后缀“-F”标记无卤素产品  
Green compound with suffix "-F" on Marking

### 机械数据 Mechanical Data

- 封装外形:KBK 塑封 Case:KBK Molded plastic
- 环氧树脂:UL易燃等级:94V-0  
Epoxy:UL 94V-0 rate flame retardant
- 引脚:镀锡,无铅 Lead: Pure tin plated, lead free
- 安装位置:任意 Mounting Position: Any
- 安装扭矩:推荐值 0.5牛\*米 Mounting torque: Recommend 0.5 N\*m

### 最大值和特性 TA = 25°C 除非另有规定。

### Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

| 参数<br>Parameter                                                                                   | 符号<br>Symbols   | KBK<br>4A    | KBK<br>4B | KBK<br>4D | KBK<br>4G | KBK<br>4J | KBK<br>4K | KBK<br>4M | 单位<br>Unit       |
|---------------------------------------------------------------------------------------------------|-----------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|
| 最大可重复峰值反向电压<br>Maximum repetitive peak reverse voltage                                            | $V_{RRM}$       | 50           | 100       | 200       | 400       | 600       | 800       | 1000      | V                |
| 最大均方根电压 Maximum RMS voltage                                                                       | $V_{RMS}$       | 35           | 70        | 140       | 280       | 420       | 560       | 700       | V                |
| 最大直流阻断电压<br>Maximum DC blocking voltage                                                           | $V_{DC}$        | 50           | 100       | 200       | 400       | 600       | 800       | 1000      | V                |
| 最大正向平均整流电流<br>Maximum average forward rectified current                                           | $I_{F(AV)}$     | 4.0          |           |           |           |           |           |           | A                |
| 正向不重复浪涌电流8.3 ms单一正弦半波<br>Non-repetitive peak forward surge current<br>8.3 ms singlehalf sine-wave | $I_{FSM}$       | 120          |           |           |           |           |           |           | A                |
| 引线和管壳间绝缘强度<br>Dielectric strength Terminals to case                                               | $V_{dis}$       | 2000         |           |           |           |           |           |           | V                |
| 熔断系数 $t \leq 8.3$ ms<br>Current squared time $t \leq 8.3$ ms                                      | $I^2t$          | 60           |           |           |           |           |           |           | A <sup>2</sup> S |
| 最大正向电压 @ $I_F=2.0A$<br>Maximum forward voltage                                                    | $V_F$           | 1.05         |           |           |           |           |           |           | V                |
| 最大反向电流 @ $V_{DC}$<br>Maximum reverse current                                                      | $I_R$           | 10           |           |           |           |           |           |           | $\mu A$          |
| 典型热阻 Typical thermal resistance (Note 1)                                                          | $R_{\theta JC}$ | 5.8          |           |           |           |           |           |           | °C/W             |
| 工作结温和存储温度<br>Operating junction and storage temperature rang                                      | $T_j, T_{STG}$  | -55 --- +150 |           |           |           |           |           |           | °C               |

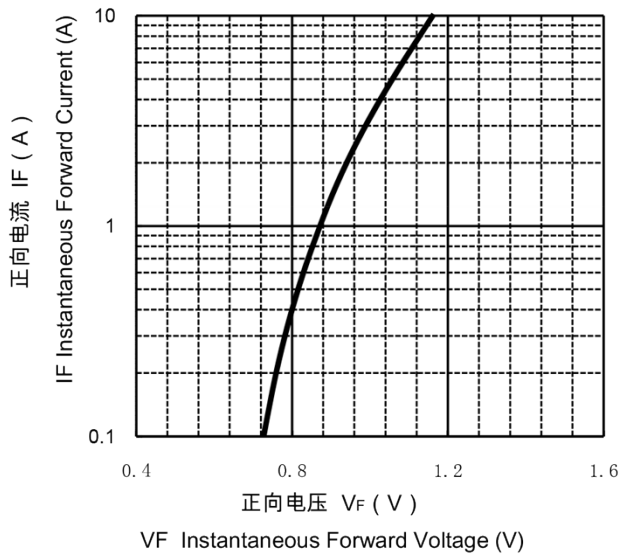
备注 Note:

1) 安装在PCB板上, 从PN结到管体的热阻。

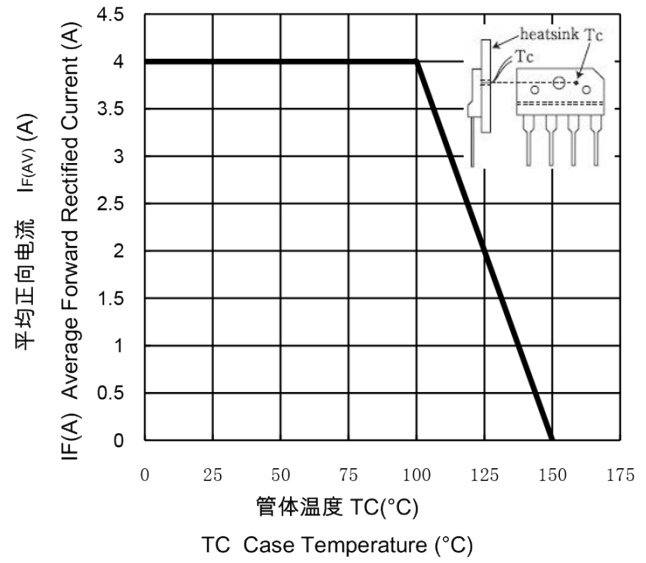
1) Thermal resistance from junction to case, PCB mounted.

## 特性曲线 Characteristic Curves

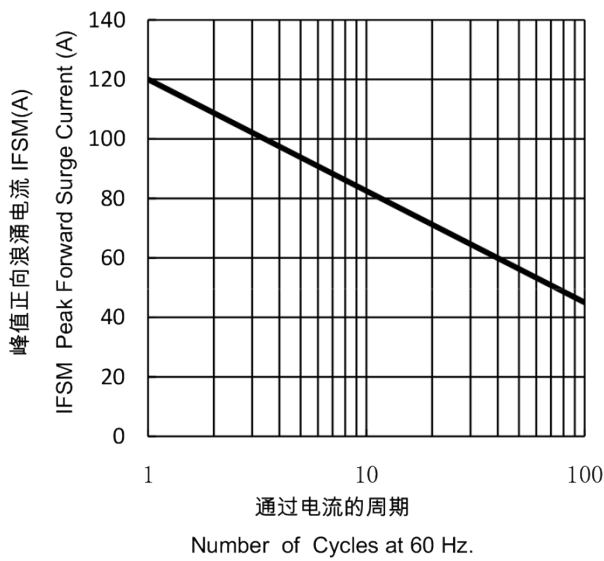
正向特性曲线 (典型值)  
TYPICAL FORWARD CHARACTERISTIC



正向电流降额曲线  
FORWARD CURRENT DERATING CURVE



浪涌特性曲线 (最大值)  
MAXIMUM NON REPETITIVE  
PEAK FORWARD SURGE CURRENT



反向特性曲线  
Typical Reverse Characteristics

