

单向硅整流桥堆

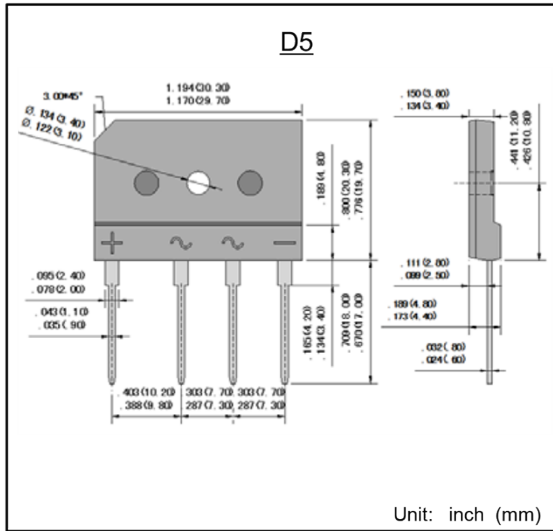
反向电压 50 ~ 1000 V

正向电流 6 A

Single phase Silicon Bridge Rectifiers

Reverse Voltage 50 ~ 1000 V

Forward Current 6 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: D5 塑封 Case: D5 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

极限值和温度特性 TA = 25°C 除非另有规定。

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

| 参数<br>Parameter                                                                                    | 符号<br>Symbols      | D5S<br>B05   | D5S<br>B10 | D5S<br>B20 | D5S<br>B40 | D5S<br>B60 | D5S<br>B80 | D5S<br>B100 | 单位<br>Unit       |
|----------------------------------------------------------------------------------------------------|--------------------|--------------|------------|------------|------------|------------|------------|-------------|------------------|
| 最大可重复峰值反向电压<br>Maximum repetitive peak reverse voltage                                             | V <sub>RRM</sub>   | 50           | 100        | 200        | 400        | 600        | 800        | 1000        | V                |
| 最大均方根电压    Maximum RMS voltage                                                                     | V <sub>RMS</sub>   | 35           | 70         | 140        | 280        | 420        | 560        | 700         | V                |
| 最大直流阻断电压<br>Maximum DC blocking voltage                                                            | V <sub>DC</sub>    | 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 <sub>F(AV)</sub> | 6            |            |            |            |            |            |             | 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 <sub>FSM</sub>   | 170          |            |            |            |            |            |             | A                |
| 引线和管壳间绝缘强度<br>Dielectric strength Terminals to case                                                | V <sub>dis</sub>   | 2500         |            |            |            |            |            |             | V                |
| 熔断系数    t≤ 8.3 ms<br>Current squared time    t≤ 8.3 ms                                             | I <sup>2</sup> t   | 115          |            |            |            |            |            |             | A <sup>2</sup> S |
| 典型热阻    Typical thermal resistance (Note 1、2)                                                      | R <sub>θJC</sub>   | 3.4          |            |            |            |            |            |             | °C/W             |
|                                                                                                    | R <sub>θJA</sub>   | 26           |            |            |            |            |            |             |                  |
| 工作结温<br>Junction temperature                                                                       | T <sub>j</sub>     | 150          |            |            |            |            |            |             | °C               |
| 存储温度<br>Storage temperature range                                                                  | T <sub>STG</sub>   | -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.
- 2) 安装在PCB板上, 从PN结到环境的热阻。  
2) Thermal resistance from junction to ambient, PCB mounted.

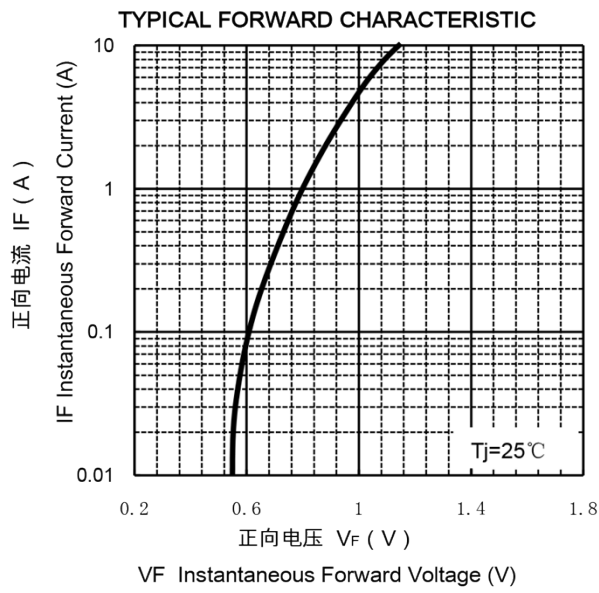
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Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

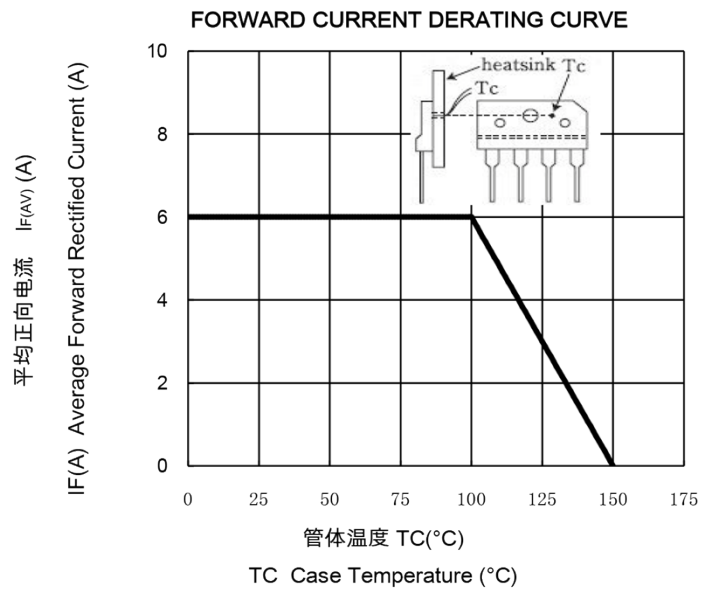
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|-------------------------------------------------------|---------------|------------|------------|------------|------------|------------|------------|-------------|------------|
| 最大正向电压 @ $I_F=3.0$ A<br>Maximum forward voltage       | $V_F$         | 1.05       |            |            |            |            |            |             | V          |
| 最大反向电流 @ $V_{DC}$ TA= 25°C<br>Maximum reverse current | $I_R$         | 10         |            |            |            |            |            |             | μA         |

特性曲线 Characteristic Curves

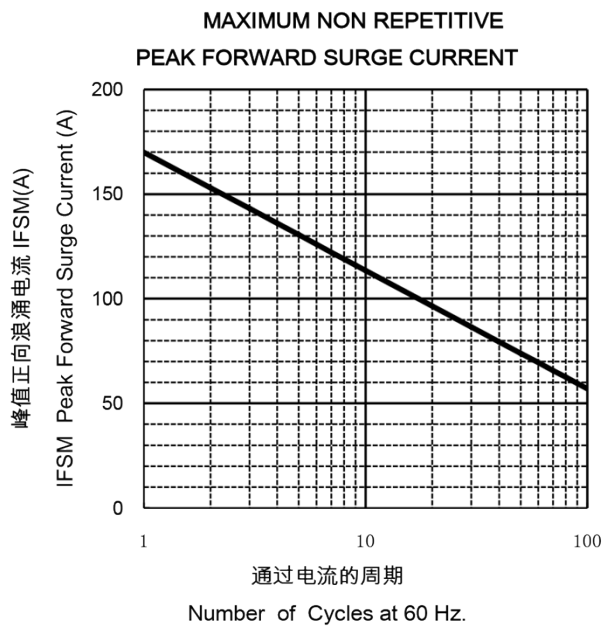
正向特性曲线 (典型值)



正向电流降额曲线



浪涌特性曲线 (最大值)



反向特性曲线

