



塑封肖特基二极管

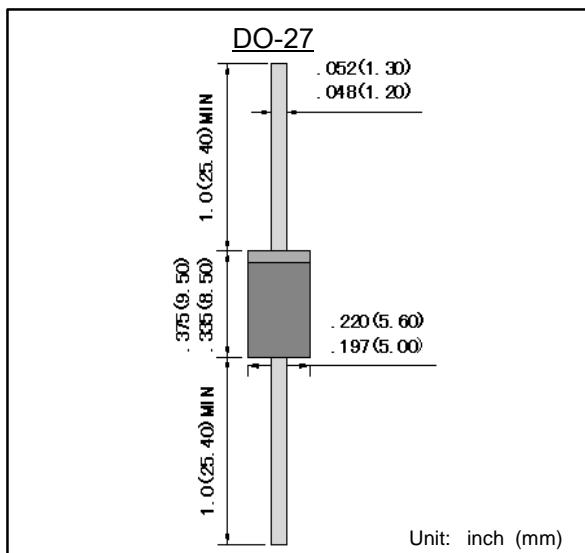
反向电压100 V

正向电流 5.0 A

Schottky Barrier Plastic Rectifiers

Reverse Voltage100V

Forward Current 5.0 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
- 高温焊接保证 High temperature soldering guaranteed:  
260°C/10 秒, 引线长度:0.375" (9.5mm)  
260°C/10seconds, 9.5mm lead length
- 引线和管体皆符合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:DO-27 塑封 Case:DO-27 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

**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 Parameter	符号 Symbols	SB5100L	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	100	V
最大均方根电压 Maximum RMS voltage	V <sub>RMS</sub>	70	V
最大直流阻断电压 Maximum DC blocking voltage	V <sub>DC</sub>	100	V
最大正向平均整流电流 Maximum average forward rectified current	I <sub>F(AV)</sub>	5.0	A
正向不重复浪涌电流 8.3 ms单一正弦半波 Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I <sub>FSM</sub>	150	A
最大正向电压 @IF=5.0A Maximum forward voltage	V <sub>F</sub>	0.72	V
最大反向电流 @V <sub>DC</sub> TA= 25°C Maximum reverse current TA= 100°C	I <sub>R</sub>	50 20	μA mA
典型热阻 Typical thermal resistance (Note 1)	R <sub>θJA</sub>	20	°C/W
工作结温和存储温度 Operating junction and storage temperature rang	T <sub>j</sub> , T <sub>STG</sub>	-55 --- +150	°C

备注 Note:

1) 引线长度 0.375" (9.5 mm) , 安装在PCB板上 , 从PN结到周围环境的热阻。

1) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted.



## 特性曲线 Characteristic Curves

