

## 塑封肖特基二极管

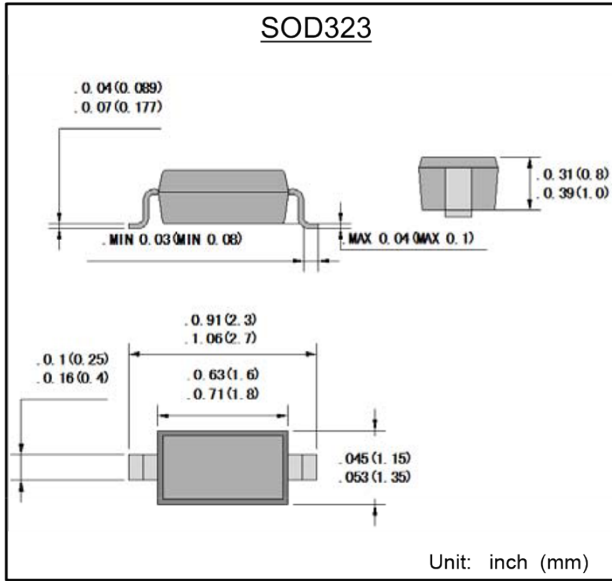
反向电压 40 V

正向电流 1.0 A

## Schottky Barrier Plastic Rectifiers

Reverse Voltage 40 V

Forward Current 1.0 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 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:SOD323 塑封 Case:SOD323 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<br>Parameter   | 符号<br>Symbols   | 1N5819WS     | 单位<br>Unit |
|---|-----------------|--------------|------------|
| 最大可重复峰值反向电压<br>Maximum repetitive peak reverse voltage  | $V_{RRM}$       | 40           | V          |
| 最大均方根电压 Maximum RMS voltage   | $V_{RMS}$       | 28           | V          |
| 最大直流阻断电压<br>Maximum DC blocking voltage   | $V_{DC}$        | 40           | V          |
| 最大正向平均整流电流<br>Maximum average forward rectified current   | $I_{F(AV)}$     | 1.0          | 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 single half sine-wave | $I_{FSM}$       | 9            | A          |
| 最大正向电压 @ $I_F=1.0A$<br>Maximum forward voltage  | $V_F$           | 0.60         | V          |
| 最大反向电流 @ $V_{DC}$ TA= 25°C<br>Maximum reverse current   | $I_R$           | 1            | mA         |
| 功率消耗 Power Dissipation  | PD              | 250          | mW         |
| 典型热阻 Typical thermal resistance (Note 1)  | $R_{\theta JA}$ | 400          | °C/W       |
| 工作结温<br>Operating junction  | $T_j$           | -55 --- +125 | °C         |
| 存储温度<br>Storage temperature rang  | $T_{STG}$       | -55 --- +150 | °C         |

备注 Note:

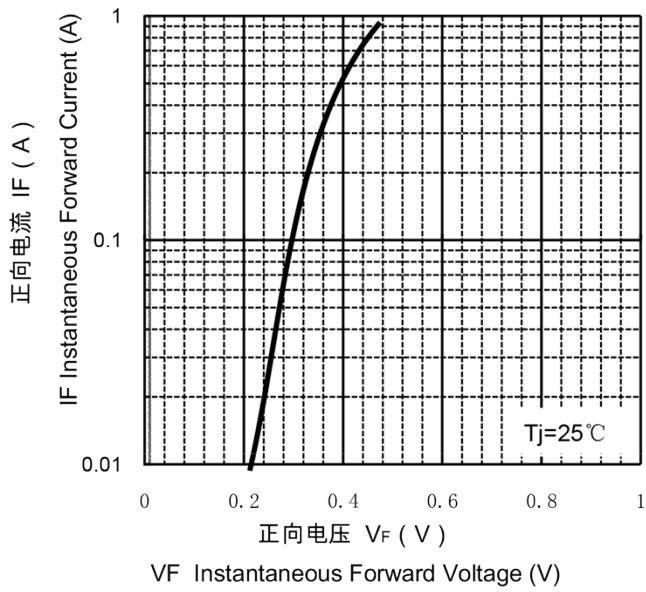
1) 引线长度 0.375" (9.5 mm) , 安装在PCB板上 , 从PN结到周围环境的热阻。

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

## 特性曲线 Characteristic Curves

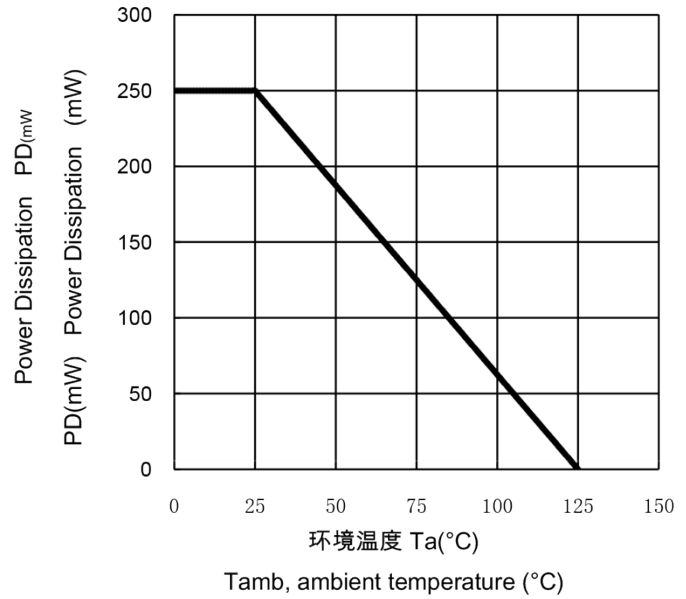
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



正向电流降额曲线

FORWARD CURRENT DERATING CURVE



反向特性曲线

Typical Reverse Characteristics

