

塑封肖特基二极管

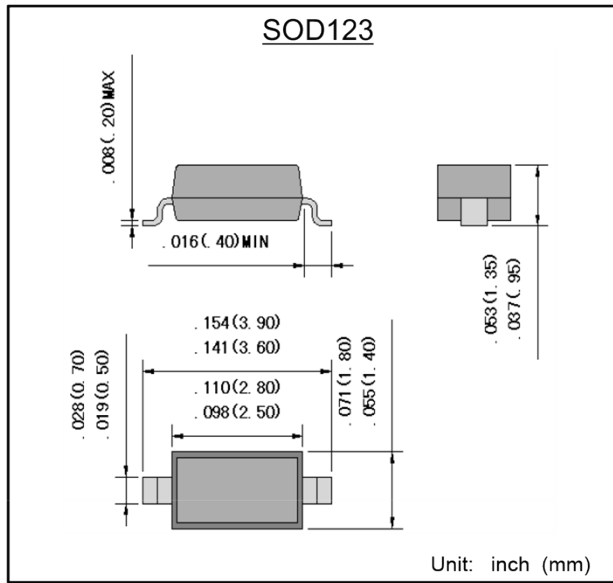
反向电压 40 V

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:SOD123 塑封 Case:SOD123 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   | 1N5819W      | 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 singlehalf sine-wave | $I_{FSM}$       | 9            | A          |
| 最大正向电压 @IF=1.0A<br>Maximum forward voltage                                                         | $V_F$           | 0.55         | V          |
| 最大反向电流 @V <sub>DC</sub> TA= 25°C<br>Maximum reverse current                                        | $I_R$           | 1            | mA         |
| 典型热阻 Typical thermal resistance (Note 1)                                                           | $R_{\theta JA}$ | 220          | °C/W       |
| 工作结温<br>Operating junction temperature range                                                       | $T_J$           | -55 --- +125 | °C         |
| 存储温度<br>Storage temperature range                                                                  | $T_{STG}$       | -55 --- +150 | °C         |

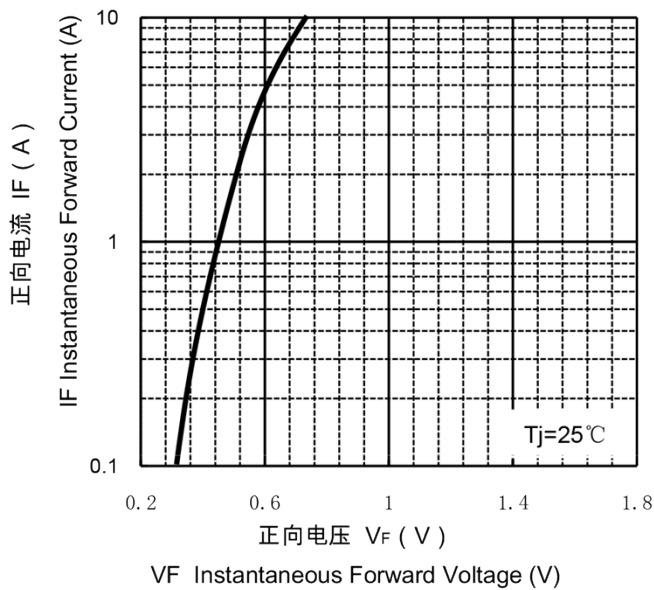
备注 Note:

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。

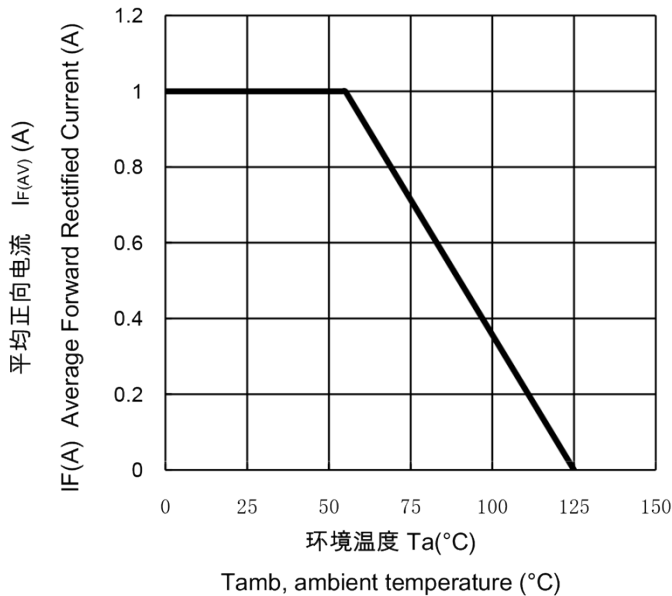
1) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted.

特性曲线 Characteristic Curves

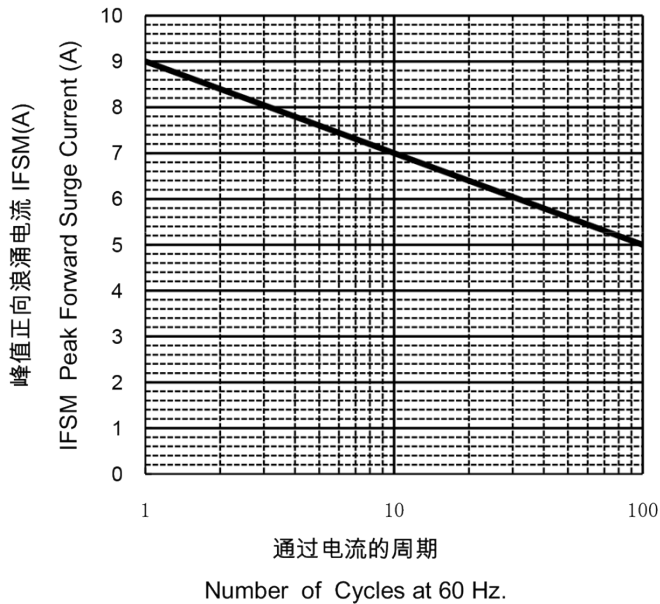
正向特性曲线 ( 典型值 )  
TYPICAL FORWARD CHARACTERISTIC



正向电流降额曲线  
FORWARD CURRENT DERATING CURVE



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

