SIYU®

# S1AL ..... S1ML

## 表面安装普通整流二极管

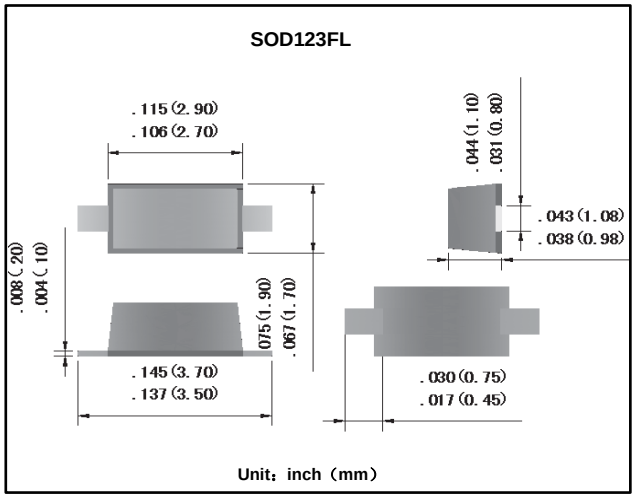
反向电压 50 --- 1000 V

正向电流 1.0 A

## Surface Mount General Rectifier

Reverse Voltage 50 --- 1000 V

Forward Current 1.0 A




### 特征 Features

- 反向漏电流低 Low reverse leakage
- 正向浪涌承受能力较强 High forward surge capability
- 高温焊接保证 High temperature soldering guaranteed: 260℃/10 秒 seconds at terminals
- 引线和管体皆符合RoHS标准 。 Lead and body according with RoHS standard

### 机械数据 Mechanical Data

- 封装: 塑料封装 Case: Molded plastic body
- 端子: 焊料被镀 Terminals: Solder plated
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

### 极限值和电参数 TA = 25℃ 除非另有规定。

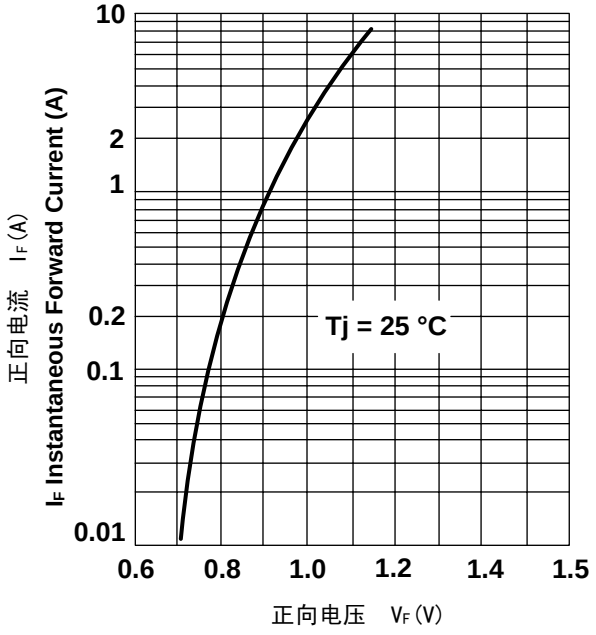
### Maximum Ratings & Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

| | 符号 Symbols | S1AL | S1BL | S1DL | S1GL | S1JL | S1KL | S1ML | 单位 Unit |
|---|---|---|---|---|---|---|---|---|---|
| 最大峰值反向电压 Maximum repetitive peak reverse voltage | $V_{RRM}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| 最大反向有效值电压 Maximum RMS voltage | $V_{R(RMS)}$ | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| 最大直流阻断电压 Maximum DC blocking voltage | $V_{DC}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| 最大正向平均整流电流 Maximum average forward rectified current | $I_{AV}$ | 1.0 | | | | | | | A |
| 最大正向电压降 IF =1.0A Maximum forward voltage | $V_F$ | 1.1 | | | | | | | V |
| 正向峰值浪涌电流 8.3mS单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave | $I_{FSM}$ | 30 | | | | | | | A |
| 最大反向漏电流 TA = 25℃ Maximum reverse current TA =100℃ | IR | 5<br>50 | | | | | | | uA |
| 典型热阻 Typical thermal resistance | $R_{\theta JA}$ | 85 | | | | | 80 | | ℃/W |
| 典型结电容 VR = 4.0V f = 1.0MHz Type junction capacitance | Cj | 9 | | | | | | | pF |
| 工作温度和存储温度 Operating junction and storage temperature range | Tj, $T_{STG}$ | -55 --- +150 | | | | | | | ℃ |

# 特性曲线 Characteristic Curves

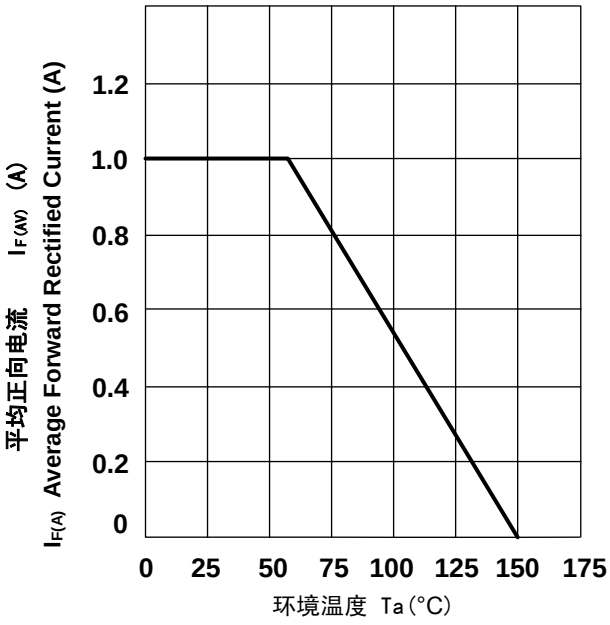
正向特性曲线（典型值）

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

