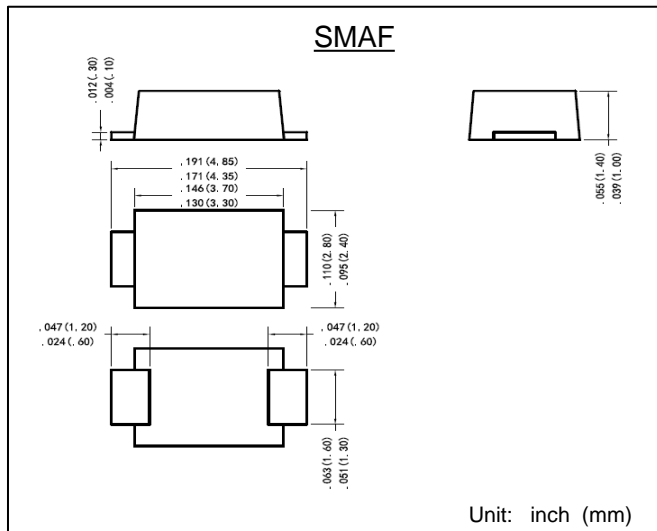


表面安装肖特基二极管
反向电压 100 V
正向电流 3.0 A

Surface Mounted Trench Low VF Schottky Barrier Rectifiers
Reverse Voltage 100 V
Forward Current 3.0 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
260°C/10seconds
- 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:DO-214AC塑封 Case:DO-214AC 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 | TSS310LF | 单位 Unit |
|--|------------------------------------|--------------|------------|
| 最大可重复峰值反向电压 Maximum repetitive peak reverse voltage | V_{RRM} | 100 | V |
| 最大均方根电压 Maximum RMS voltage | V_{RMS} | 70 | V |
| 最大直流阻断电压 Maximum DC blocking voltage | V_{DC} | 100 | V |
| 最大正向平均整流电流 Maximum average forward rectified current | $I_{F(AV)}$ | 3.0 | 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_{FSM} | 80 | A |
| 最大正向电压 @IF=3.0A Maximum forward voltage | V_F | 0.65 | V |
| 最大反向电流 @V _{DC} TA= 25°C Maximum reverse current TA= 100°C | I_R | 0.5 50 | mA |
| 典型热阻 Typical thermal resistance (Note 1) | $R_{\theta JA}$ $R_{\theta JL}$ | 105 35 | °C/W |
| 典型结电容 VR=4.0V,f=1MHz Type junction capacitance | C_J | 130 | pF |
| 工作结温 Operating junction | T_J | -55 --- +150 | °C |
| 存储温度 Storage temperature rang | T_{STG} | -55 --- +150 | °C |

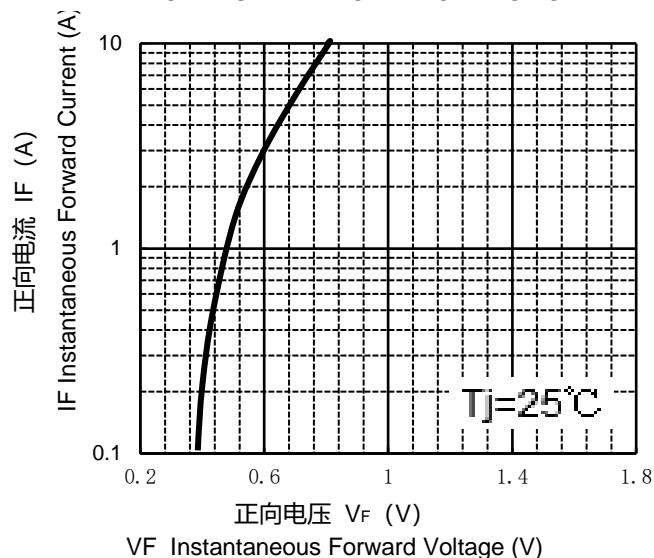
备注 Note:

- 1) 安装在PCB板上, 从PN结到周围环境的热阻。
1) Thermal resistance from junction to ambient , PCB mounted.

特性曲线 Characteristic Curves

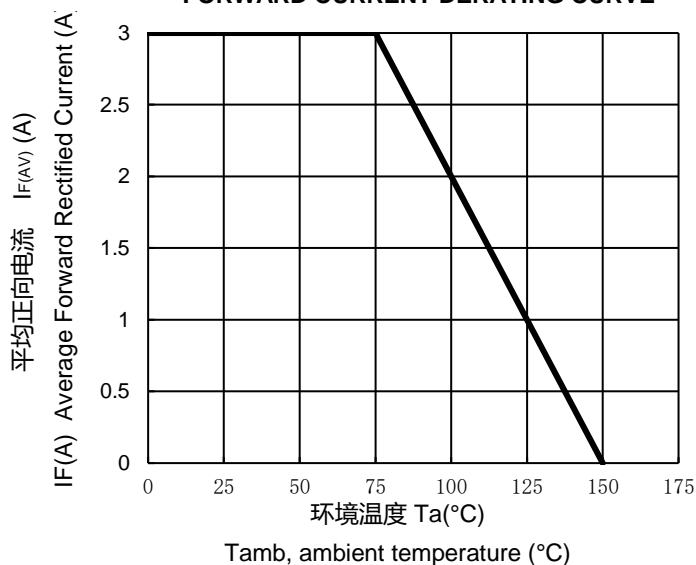
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



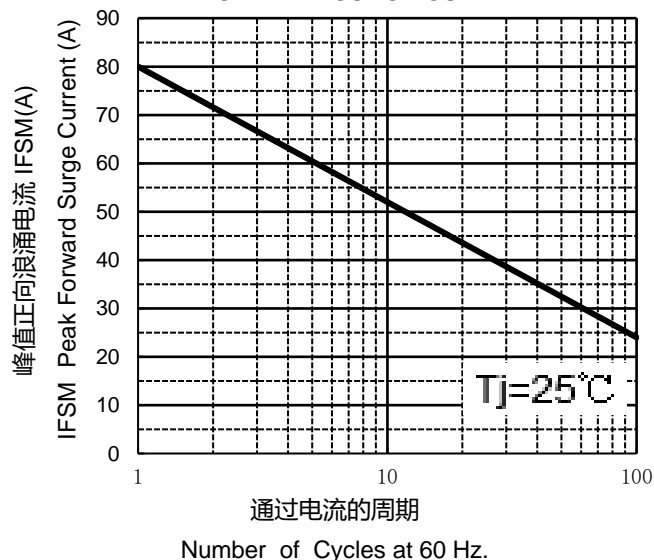
正向电流降额曲线

FORWARD CURRENT DERATING CURVE



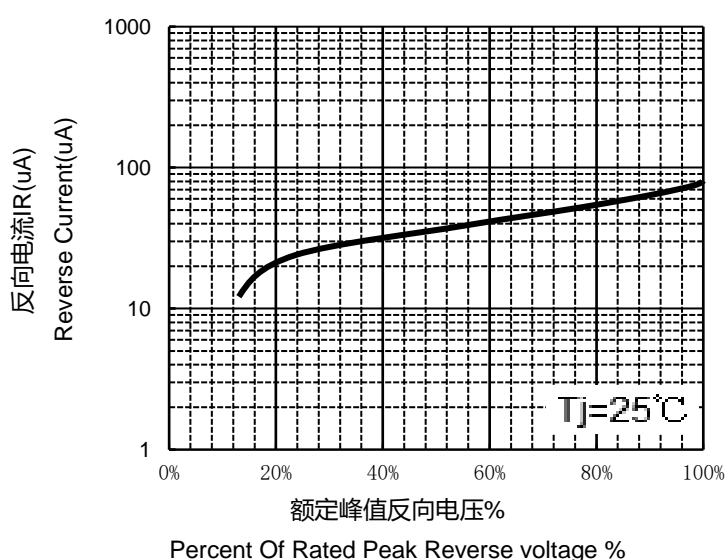
浪涌特性曲线 (最大值)

MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



反向特性曲线

Typical Reverse Characteristics



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