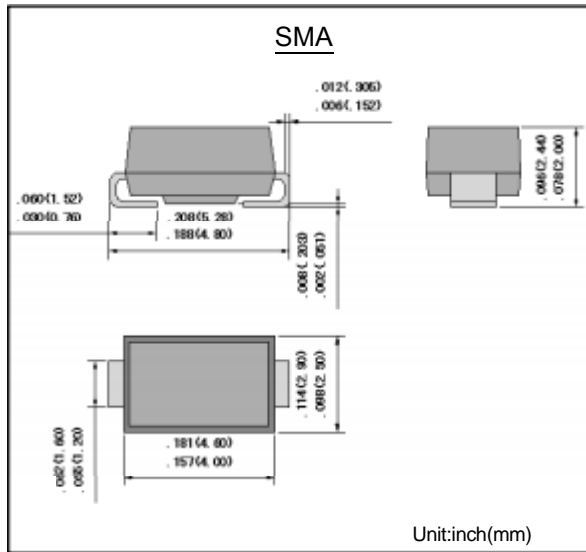


SS14-SS120

表面安装肖特基二极管
反向电压 40 ~200 V正
向电流1.0 A

Surface Mounted Schottky Barrier Rectifiers
Reverse Voltage 40 ~200 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
260°C/10 seconds
- 引线 and 管体皆符合 RoHS 标准
Lead and body according with RoHS standard

机械数据 Mechanical Data

- 封装外形: SMA 塑封 Case: SMA Molded plastic
- 环氧树脂: UL 易燃等级: 94V-0
Epoxy: UL 94V-0 rate flameretardant
- 引脚: 镀锡, 无铅 Lead: Pure tin plated, lead free

最大值和特性 $T_A = 25^\circ\text{C}$ 除非另有规定。

Maximum Ratings & Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| 参数 Parameter | 符号 Symbols | SS14 | SS16 | SS110 | SS115 | SS120 | 单位 Unit |
|---|-----------------|--------------|------|--------------|-------|-------|---------------------------|
| 最大可重复峰值反向电压 Maximum repetitive peak reverse voltage | V_{RRM} | 40 | 60 | 100 | 150 | 200 | V |
| 最大均方根电压 Maximum RMS voltage | V_{RMS} | 28 | 42 | 70 | 105 | 140 | V |
| 最大直流阻断电压 Maximum DC blocking voltage | V_{DC} | 40 | 60 | 100 | 150 | 200 | V |
| 最大正向平均整流电流 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 Non-repetitive peak forward surge current 8.3 ms single half sine-wave | I_{FSM} | 30 | | | | | A |
| 最大正向电压 @ $I_F = 1.0\text{A}$ Maximum forward voltage | V_F | 0.50 | 0.70 | 0.85 | 0.92 | 0.95 | V |
| 最大反向电流 @ V_{DC} Maximum reverse current | I_R | 500 | 100 | 50 | | | μA |
| 典型热阻 Typical thermal resistance (Note 1) | $R_{\theta JA}$ | 95 | | | | | $^\circ\text{C}/\text{W}$ |
| 工作结温 Operating junction temperature range | T_J | -55 --- +125 | | -55 --- +150 | | | $^\circ\text{C}$ |
| 存储温度 Storage temperature range | T_{STG} | -55 --- +150 | | | | | $^\circ\text{C}$ |

备注 Note:

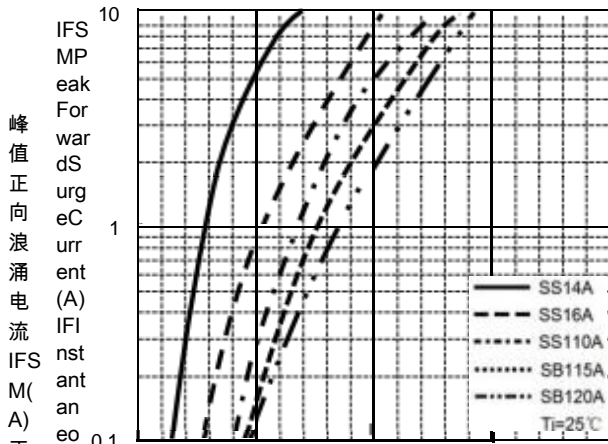
1) 安装在 PCB 板上, 从 PN 结到周围环境的热阻。

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

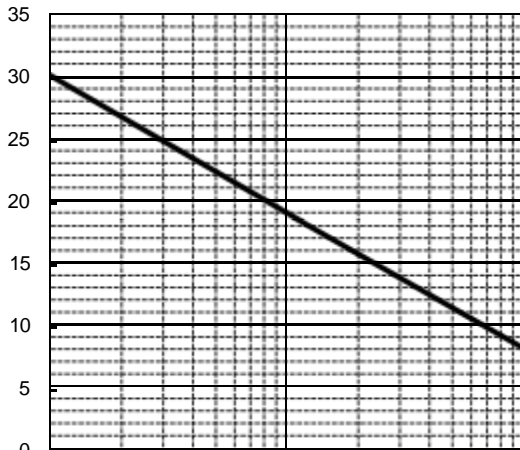


0.20.611.41.8 正向电压 V_F (V)
 V_F Instantaneous Forward Voltage (V)

峰值正向浪涌电流 (A)
 Peak Forward Surge Current (A)

浪涌特性曲线 (最大值)

MAXIMUM NONREPETITIVE PEAK FORWARD SURGE CURRENT

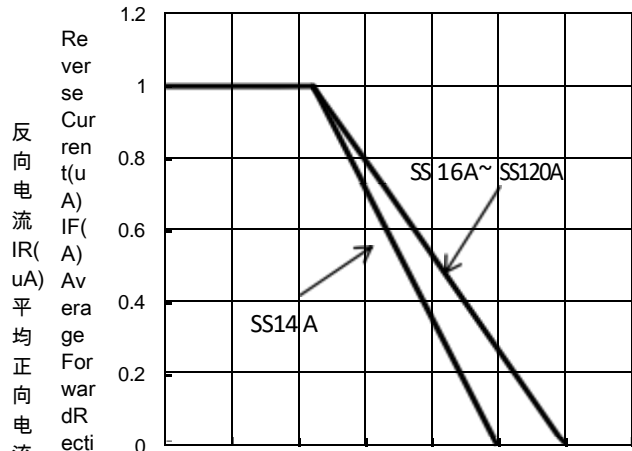


110100

通过电流的周期
 Number of Cycles at 60Hz.

正向电流降额曲线

FORWARD CURRENT DERATING CURVE

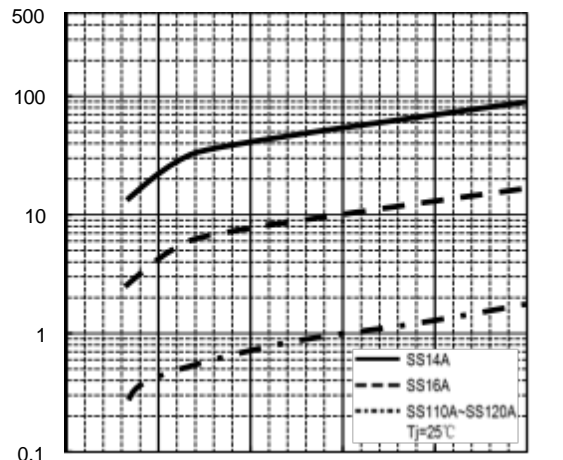


反向电流 (uA)
 Reverse Current (uA)
 Average Forward Current (A)
 Rectified Current (A)

环境温度 T_a ($^\circ\text{C}$)
 T_{amb} , ambient temperature ($^\circ\text{C}$)

反向特性曲线

Typical Reverse Characteristics



0% 20% 40% 60% 80% 100%
 额定峰值反向电压 %
 Percent Of Rated Peak Reverse Voltage %