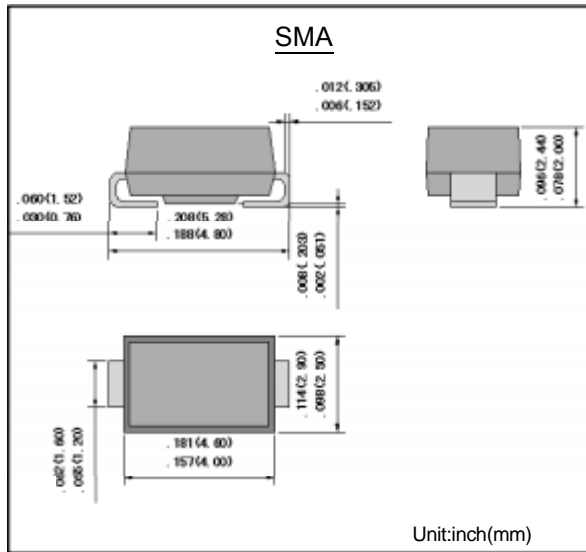


SS14-SS120

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					$^\circ\text{C/W}$
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:

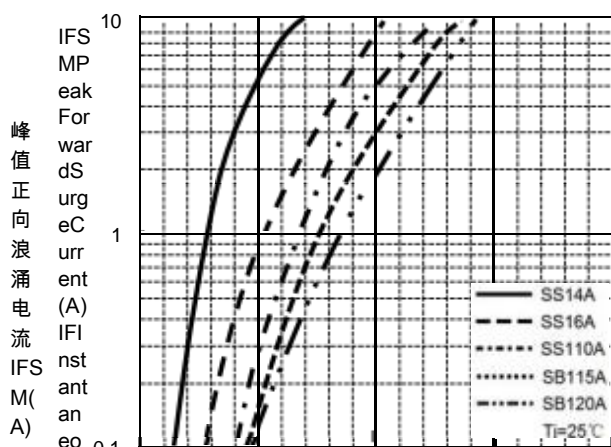
1) 安装在 PCB 板上, 从 PN 结到周围环境的热阻。

1) Thermal resistance from junction to ambient, PCB mounted.

特性曲线 Characteristic Curves

正向特性曲线 (典型值)

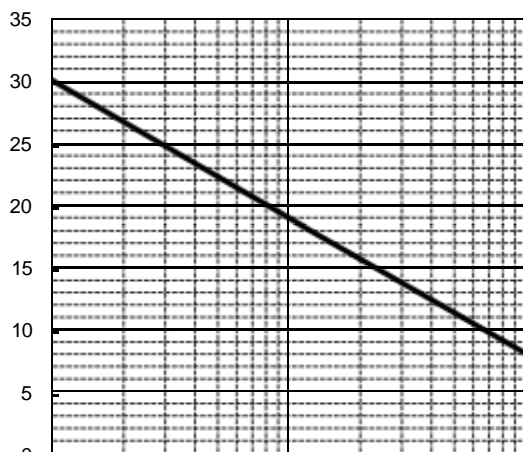
TYPICAL FORWARD CHARACTERISTIC



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

浪涌特性曲线 (最大值)

MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

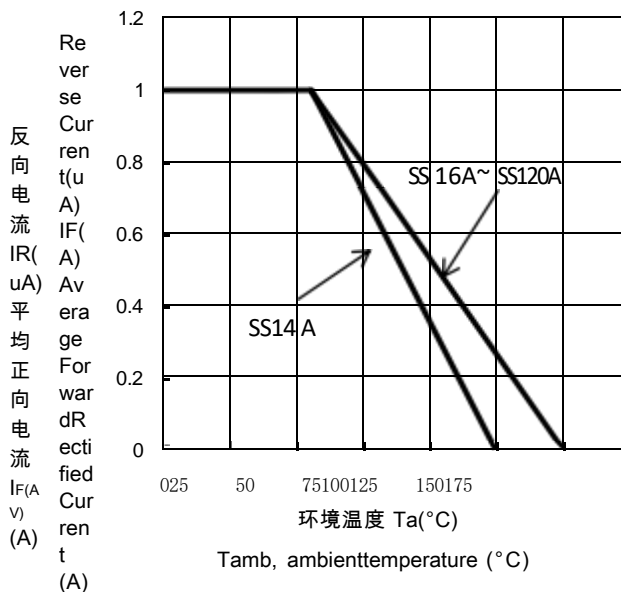


110100

通过电流的周期
 Number of Cycles at 60Hz.

正向电流降额曲线

FORWARD CURRENT DERATING CURVE



反向特性曲线

Typical Reverse Characteristics

