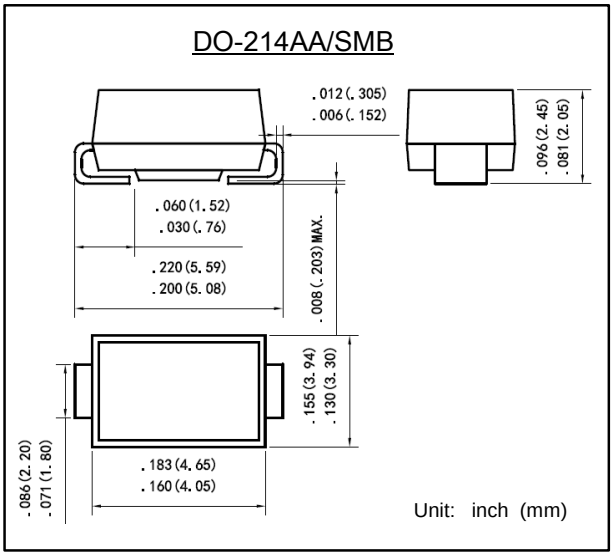
# SS32B-SS320B

表面安装肖特基二极管
反向电压 20 ~ 200 V
正向电流 2.0 A

**Surface Mounted Schottky Barrier Rectifiers**
Reverse Voltage 20 ~ 200 V
Forward Current 2.0 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℃/10 秒
  260℃/10seconds
- 引线和管体皆符合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-214AA塑封 Case:DO-214AA 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℃ 除非另有规定。

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

| 参数 Parameter | 符号 Symbols | SS32B | SS33B | SS34B | SS35B | SS36B | SS38B | SS310B | SS315B | SS320B | 单位 Unit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 最大可重复峰值反向电压 Maximum repetitive peak reverse voltage | $V_{RRM}$ | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | V |
| 最大均方根电压 Maximum RMS voltage | $V_{RMS}$ | 14 | 21 | 28 | 35 | 42 | 56 | 70 | 105 | 140 | V |
| 最大直流阻断电压 Maximum DC blocking voltage | $V_{DC}$ | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | 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 | $V_F$ | 0.50 | | | 0.70 | | 0.85 | | 0.90 | | V |
| 最大反向电流 @$V_{DC}$ TA= 25℃ | $I_R$ | 0.5 | | | | | 0.1 | | | | mA |
| Maximum reverse current TA= 100℃ | | 20 | | | | | 10 | | | | |
| 典型热阻 Typical thermal resistance (Note 1) | $R_{\theta JA}$ | 85 | | | | | | | | | ℃/W |
| | $R_{\theta JL}$ | 20 | | | | | | | | | |
| 典型结电容 VR=4.0V,f=1MHz Type junction capacitance | $C_J$ | 180 | | | | | | | | | pF |
| 工作结温 Operating junction | $T_J$ | -55 --- +125 | | | | | -55 --- +150 | | | | ℃ |
| 存储温度 Storage temperature rang | $T_{STG}$ | -55 --- +150 | | | | | | | | | ℃ |

备注 Note:

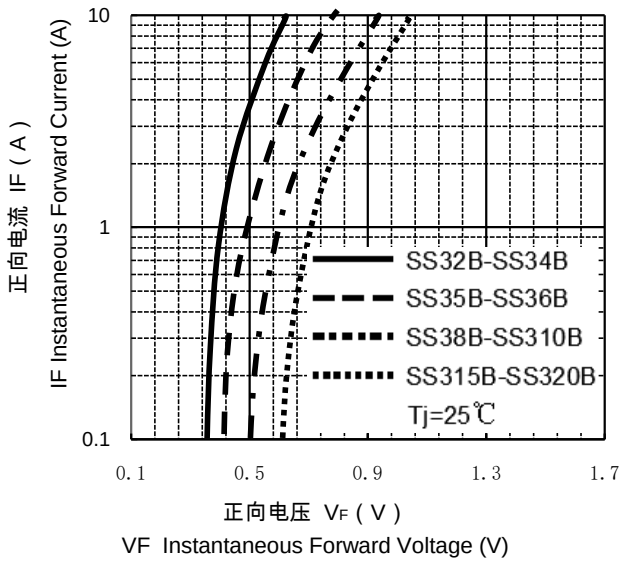
1) 安装在PCB板上，从PN结到周围环境的热阻。

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

## 特性曲线 Characteristic Curves

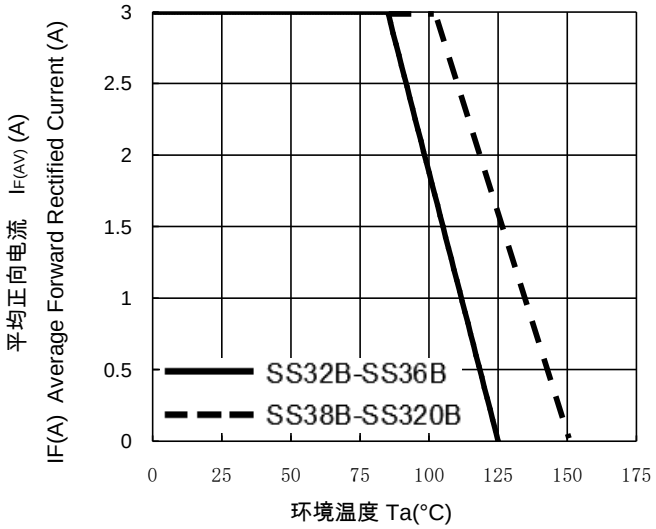
**正向特性曲线（典型值）**

**TYPICAL FORWARD CHARACTERISTIC**




**正向电流降额曲线**

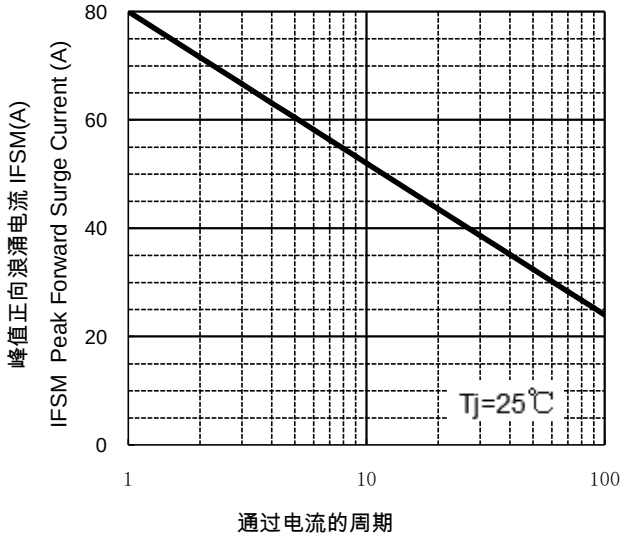
**FORWARD CURRENT DERATING CURVE**




**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**