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# SS32A THRU SS310A

## 肖特基二极管 Schottky Rectifier

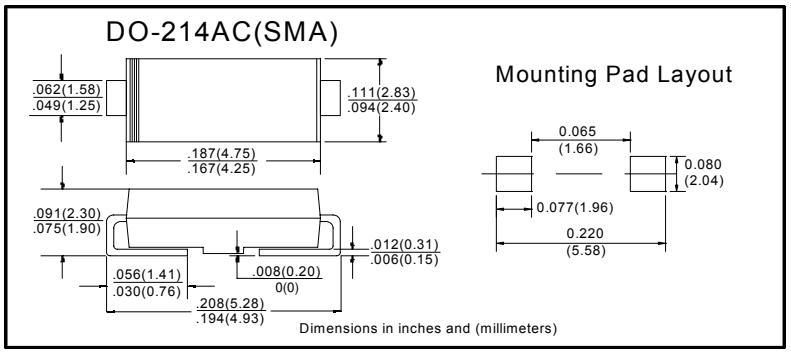
### ■特征 Features

- $I_o$ 3.0A
- $V_{RRM}$ 20V-100V
- 耐正向浪涌电流能力高
  High surge current capability
- 封装：模压塑料
  Cases: Molded plastic

### ■用途 Applications

- 整流用 Rectifier

### ■外形尺寸和印记 Outline Dimensions and Mark




### ■极限值（绝对最大额定值）
### Limiting Values (Absolute Maximum Rating)

| 参数名称 Item | 符号 Symbol | 单位 Unit | 测试条件 Test Conditions | SS3 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 2A | 3A | 4A | 5A | 6A | 9A | 10A |
| 反向重复峰值电压 Repetitive Peak Reverse Voltage | $V_{RRM}$ | V | | 20 | 30 | 40 | 50 | 60 | 90 | 100 |
| 正向平均电流 Average Forward Current | $I_{F(AV)}$ | A | 正弦半波 60Hz，电阻负载，TL(Fig.1) 60HZ Half-sine wave, Resistance load, TL(Fig.1) | 3.0 | | | | | | |
| 正向（不重复）浪涌电流 Surge(Non-repetitive)Forward Current | $I_{FSM}$ | A | 正弦半波 60Hz，一个周期，Ta=25℃ 60Hz Half-sine wave ,1 cycle , Ta =25℃ | 100 | | | | | | |
| 结温 Junction Temperature | $T_J$ | ℃ | | -55~+125 | | | -55~+150 | | | |
| 储存温度 Storage Temperature | $T_{STG}$ | ℃ | | -55 ~ +150 | | | | | | |

### ■电特性 （Ta=25℃ 除非另有规定）
### Electrical Characteristics ($T_a$=25℃ Unless otherwise specified）

| 参数名称 Item | 符号 Symbol | 单位 Unit | 测试条件 Test Condition | | SS3 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 2A | 3A | 4A | 5A | 6A | 9A | 10A |
| 正向峰值电压 Peak Forward Voltage | $V_F$ | V | $I_F$=3.0A | | 0.50 | | | 0.70 | | 0.85 | |
| 反向漏电流 Peak Reverse Current | $I_{RRM1}$ | mA | $V_{RM}=V_{RRM}$ | Ta =25℃ | 0.5 | | | | | 0.1 | |
| | $I_{RRM2}$ | | | Ta =100℃ | 10 | | | 5.0 | | | |
| 热阻(典型) Thermal Resistance(Typical) | $R_{\theta J-A}$ | ℃/W | 结和环境之间 Between junction and ambient | | 55[1)] | | | | | | |
| | $R_{\theta J-L}$ | | 结和终端之间 Between junction and terminal | | 17[1)] | | | | | | |

### 备注：Notes:

1) 热阻从结到环境及从结到引线，在电路板的0.2" x 0.2" (5毫米 x 5毫米)铜垫片区
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5 mm x 5 mm) copper pad areas

## ■特性曲线（典型） Characteristics(Typical)

图1：正向电流降额曲线
FIG.1: FORWARD CURRENT DERATING CURVE

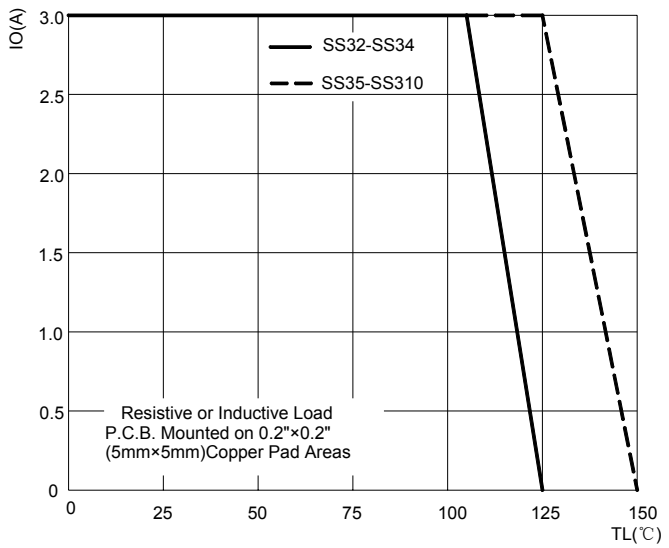



图2：最大正向浪涌冲击耐受力
FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

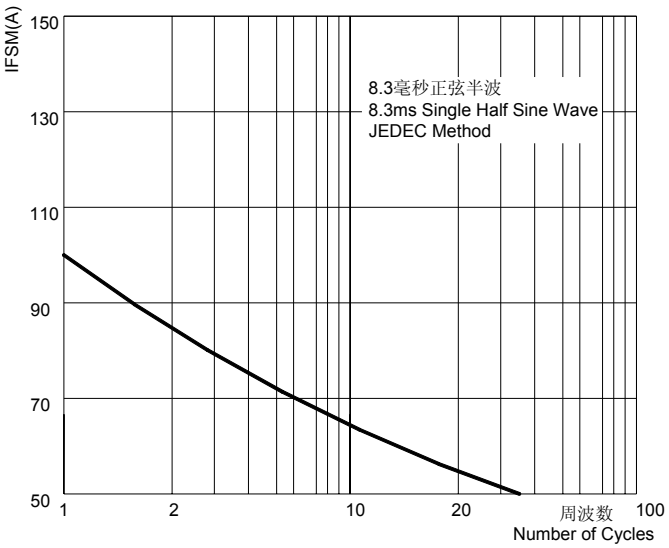



图3: 典型正向特性曲线
FIG.3: TYPICAL FORWARD CHARACTERISTICS

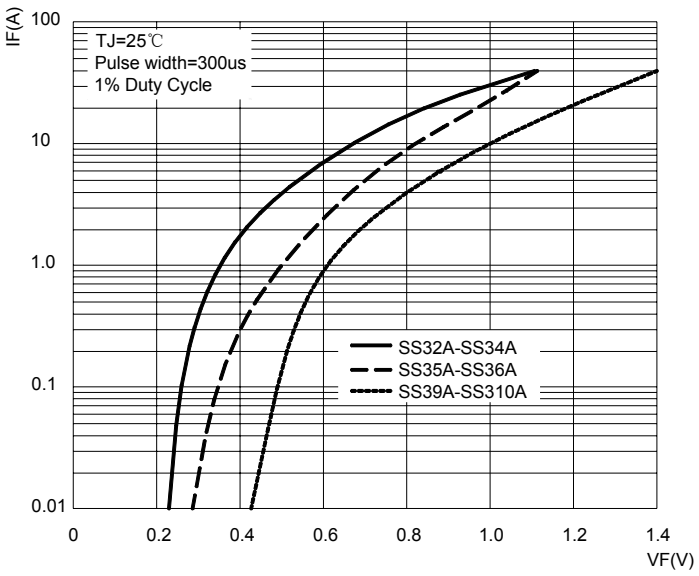



图4：典型反向特性曲线
FIG.4：TYPICAL REVERSE CHARACTERISTICS

