



## SS52 THRU SS56

### 肖特基二极管 Schottky Rectifier

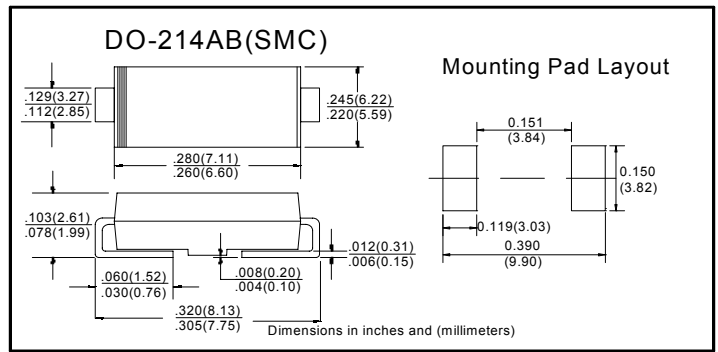
#### ■特征 Features

- $I_o$  5.0A
- $V_{RRM}$  20V-60V
- 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<br>Item                                        | 符号<br>Symbol | 单位<br>Unit  | 测试条件<br>Test Conditions                                                               | SS52       | SS53 | SS54 | SS55 | SS56 |
|-----------------------------------------------------|--------------|-------------|---------------------------------------------------------------------------------------|------------|------|------|------|------|
| 反向重复峰值电压<br>Repetitive Peak Reverse Voltage         | $V_{RRM}$    | V           |                                                                                       | 20         | 30   | 40   | 50   | 60   |
| 正向平均电流<br>Average Forward Current                   | $I_{F(AV)}$  | A           | 正弦半波 60Hz, 电阻负载, TL(Fig.1)<br>60HZ Half-sine wave, Resistance load, TL(Fig.1)         | 3.0        |      |      |      |      |
| 正向（不重复）浪涌电流<br>Surge(Non-repetitive)Forward Current | $I_{FSM}$    | A           | 正弦半波 60Hz, 一个周期, $T_a=25^{\circ}C$<br>60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}C$ | 150        |      |      |      |      |
| 结温<br>Junction Temperature                          | $T_J$        | $^{\circ}C$ |                                                                                       | -55~+150   |      |      |      |      |
| 储存温度<br>Storage Temperature                         | $T_{STG}$    | $^{\circ}C$ |                                                                                       | -55 ~ +150 |      |      |      |      |

#### ■电特性（ $T_a=25^{\circ}C$ 除非另有规定）

##### Electrical Characteristics ( $T_a=25^{\circ}C$ Unless otherwise specified)

| 参数名称<br>Item                          | 符号<br>Symbol         | 单位<br>Unit | 测试条件<br>Test Condition                  |                     | SS52             | SS53 | SS54 | SS55 | SS56 |
|---------------------------------------|----------------------|------------|-----------------------------------------|---------------------|------------------|------|------|------|------|
| 正向峰值电压<br>Peak Forward Voltage        | V <sub>F</sub>       | V          | I <sub>F</sub> =5.0A                    |                     | 0.55             |      | 0.6  | 0.70 |      |
| 反向漏电流<br>Peak Reverse Current         | I <sub>RRM1</sub>    | mA         | V <sub>RM</sub> =V <sub>RRM</sub>       | T <sub>a</sub> =25℃ | 0.5              |      |      |      |      |
|                                       | T <sub>a</sub> =100℃ |            |                                         | 50                  |                  |      |      |      |      |
| 热阻(典型)<br>Thermal Resistance(Typical) | R <sub>θJ-A</sub>    | ℃/W        | 结和环境之间<br>Between junction and ambient  |                     | 60 <sup>1)</sup> |      |      |      |      |
|                                       | R <sub>θJ-L</sub>    |            | 结和终端之间<br>Between junction and terminal |                     | 20 <sup>1)</sup> |      |      |      |      |

#### 备注: Notes:

<sup>1)</sup> 热阻从结到环境及从结到引线，在电路板的0.6" x 0.6" (16毫米 x 16毫米)铜垫片区

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 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

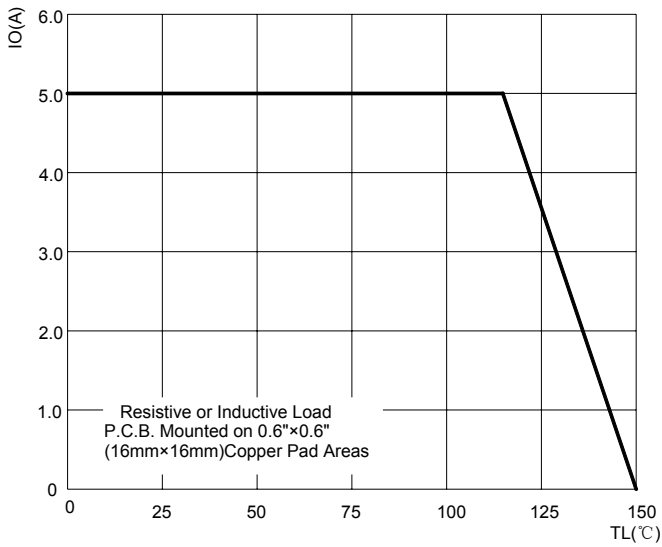


图2: 最大正向浪涌冲击耐受力  
FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

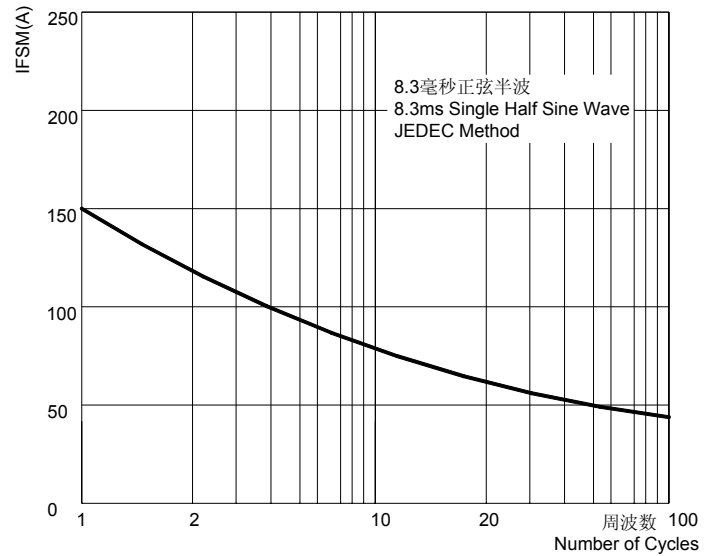


图3: 典型正向特性曲线  
FIG.3: TYPICAL FORWARD CHARACTERISTICS

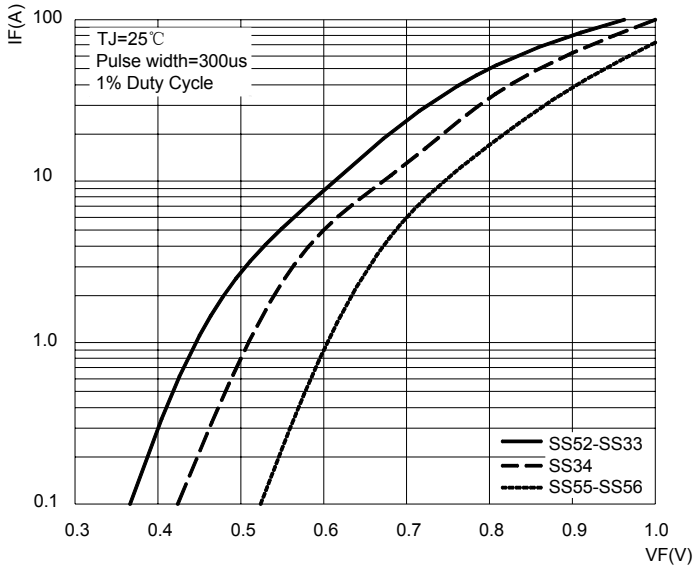


图4: 典型反向特性曲线  
FIG.4: TYPICAL REVERSE CHARACTERISTICS

