



# SSL54 THRU SSL510

## 肖特基二极管 Schottky Rectifier

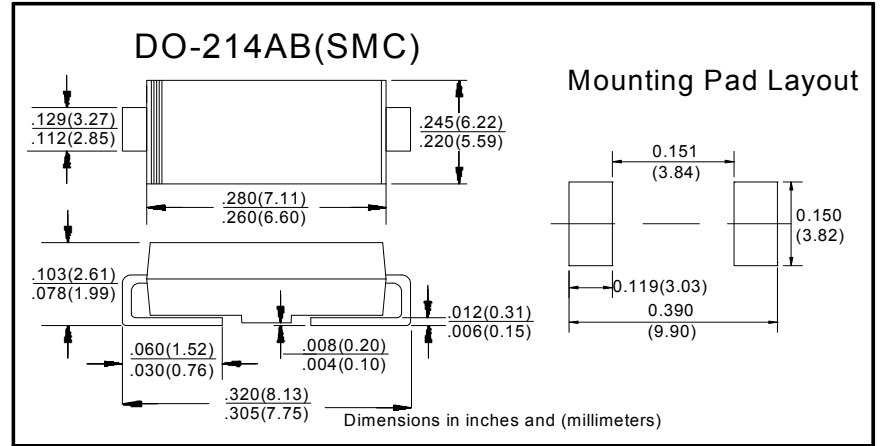
### ■特征 Features

- $I_o$  5.0A
- $V_{RRM}$  40V~100V
- 低正向电压, 低功耗  
Low VF, Low power loss
- 耐正向浪涌电流能力高  
High surge forward current capability

### ■用途 Applications

- 整流用  
Rectifier

### ■外形尺寸 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       | 条件<br>Conditions   | SSL5      |    |     |
|--|--------------|------------------|--|-----------|----|-----|
|  |              |                  |  | 4         | 6  | 10  |
| 反向重复峰值电压<br>Repetitive Peak Reverse Voltage          | $V_{RRM}$    | V                |  | 40        | 60 | 100 |
| 平均整流输出电流<br>Average Rectified Output Current         | $I_o$        | A                | 60Hz正弦半波, 电阻负载, $T_a=75^\circ\text{C}$<br>60Hz One-way half-wave, R-load, $T_a=75^\circ\text{C}$ | 5.0       |    |     |
| 正向(不重复)浪涌电流<br>Surge(Non-repetitive) Forward Current | $I_{FSM}$    | A                | 60Hz正弦波, 一个周期, $T_j=25^\circ\text{C}$<br>60Hz sine wave, 1 cycle, $T_j=25^\circ\text{C}$         | 100       |    |     |
| 存储温度<br>Storage Temperature                          | $T_{stg}$    | $^\circ\text{C}$ |  | -55 ~+150 |    |     |
| 结温<br>Junction Temperature                           | $T_j$        | $^\circ\text{C}$ |  | -55 ~+150 |    |     |

### ■电特性 ( $T_a=25^\circ\text{C}$ 除非另有规定)

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

| 参数名称<br>Item                   | 符号<br>Symbol     | 单位<br>Unit                | 测试条件<br>Test Condition                    | SSL5 |     |     |
|--------------------------------|------------------|---------------------------|---|------|-----|-----|
|                                |                  |                           |   | 4    | 6   | 10  |
| 正向峰值电压<br>Peak Forward Voltage | $V_{FM}$         | V                         | $I_{FM}=3.0\text{A}$                      | 0.45 | 0.5 | 0.7 |
| 反向峰值电流<br>Peak Reverse Current | $I_{RRM}$        | mA                        | $V_{RM}=V_{RRM}$ , $T_a=25^\circ\text{C}$ | 0.5  |     |     |
| 热阻<br>Thermal Resistance       | $R_{\theta J-L}$ | $^\circ\text{C}/\text{W}$ | 结和引线之间<br>Between junction and lead       | 15   |     |     |



## ■特性曲线（典型） Characteristics(Typical)

图1: 正向电流降额曲线

FIG1 Forward Current Dearing Curve

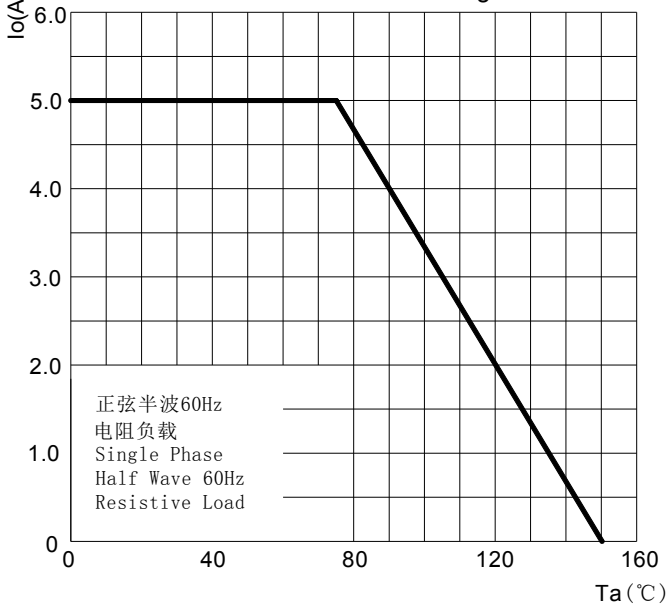


图2: 耐正向浪涌电流曲线

FIG2: Surge Forward Current Capacity

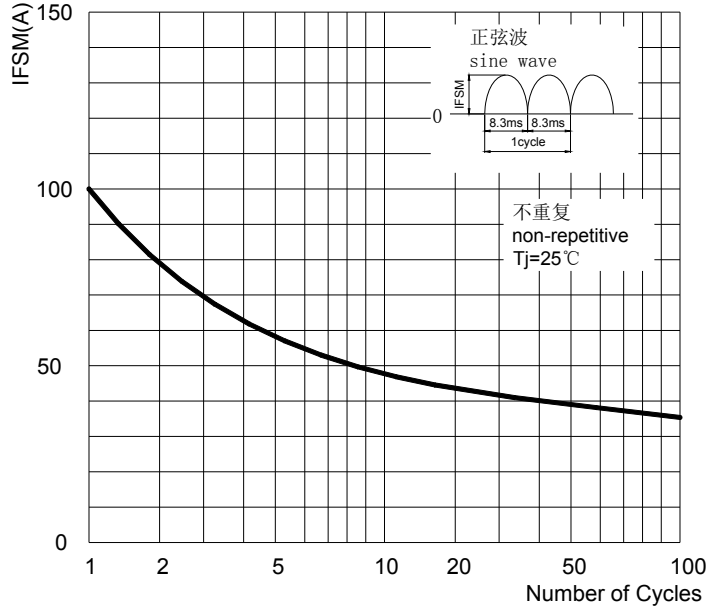


图3: 正向电压曲线

FIG3: Forward Voltage

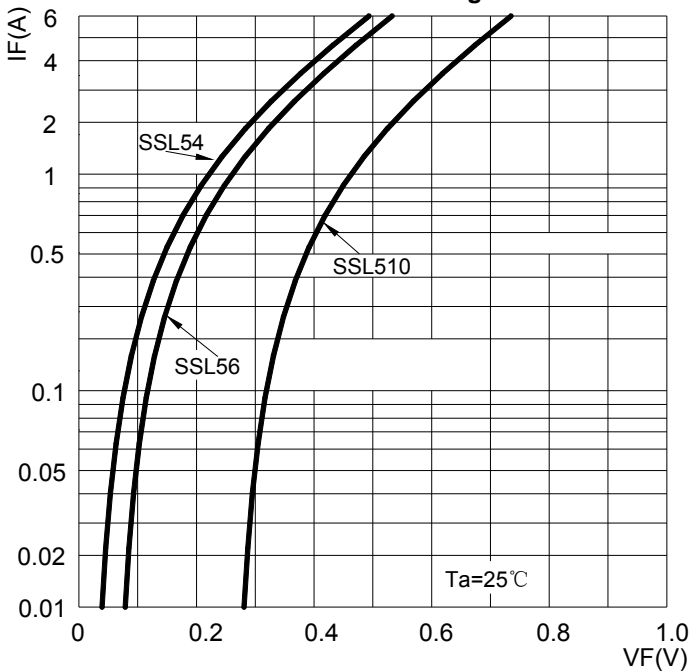


图4: 反向电流曲线

FIG4: Typical Reverse Characteristics

