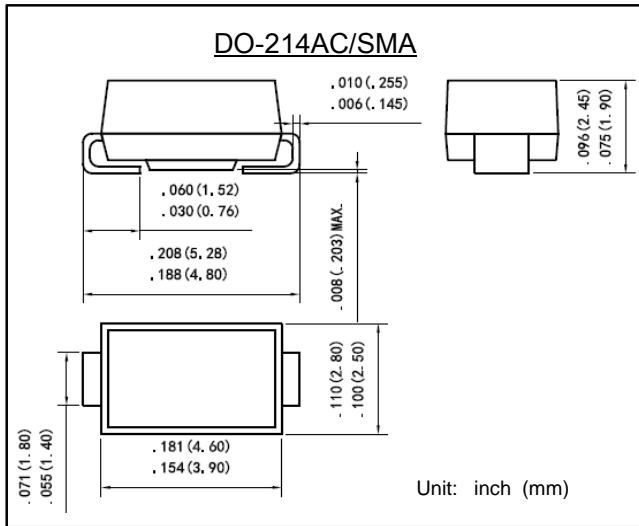


表面安装肖特基二极管  
反向电压 20 ~ 200 V  
正向电流 5.0 A

Surface Mounted Schottky Barrier Rectifiers  
Reverse Voltage 20 ~ 200 V  
Forward Current 5.0 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/10seconds
- 引线 and 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-214AC塑封 Case:DO-214AC 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°C 除非另有规定。 Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

| 参数<br>Parameter   | 符号<br>Symbols                      | SS52A        | SS53A | SS54A | SS55A | SS56A | SS58A        | SS510A | SS515A | SS520A | 单位<br>Unit |      |
|---|------------------------------------|--------------|-------|-------|-------|-------|--------------|--------|--------|--------|------------|------|
| 最大可重复峰值反向电压<br>Maximum repetitive peak reverse voltage  | $V_{RRM}$                          | 20           | 30    | 40    | 50    | 60    | 80           | 100    | 150    | 200    | V          |      |
| 最大均方根电压<br>Maximum RMS voltage  | $V_{RMS}$                          | 14           | 21    | 28    | 35    | 42    | 56           | 70     | 105    | 140    | V          |      |
| 最大直流阻断电压<br>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<br>Maximum average forward rectified current   | $I_{F(AV)}$                        | 5.0          |       |       |       |       |              |        |        |        | A          |      |
| 正向不重复浪涌电流 8.3 ms 单一正弦半波<br>Non-repetitive peak forward surge current<br>8.3 ms singlehalf sine-wave | $I_{FSM}$                          | 125          |       |       |       |       |              |        |        |        | A          |      |
| 最大正向电压 @IF=5.0A<br>Maximum forward voltage  | $V_F$                              | 0.55         |       |       | 0.70  |       | 0.85         |        | 0.92   | 0.95   | V          |      |
| 最大反向电流 @V <sub>DC</sub><br>Maximum reverse current  | $I_R$                              | 0.5          |       |       |       |       | 0.1          |        |        |        |            | mA   |
| TA= 25°C<br>TA= 100°C   |                                    | 20           |       |       |       |       | 10           |        |        |        |            |      |
| 典型热阻<br>Typical thermal resistance<br>(Note 1)  | $R_{\theta JA}$<br>$R_{\theta JL}$ | 105          |       |       |       |       | 35           |        |        |        |            | °C/W |
| 典型结电容 VR=4.0V,f=1MHz<br>Type junction capacitance   | $C_J$                              | 300          |       |       |       |       |              |        |        |        | pF         |      |
| 工作结温<br>Operating junction  | $T_J$                              | -55 --- +125 |       |       |       |       | -55 --- +150 |        |        |        |            | °C   |
| 存储温度<br>Storage temperature rang  | $T_{STG}$                          | -55 --- +150 |       |       |       |       |              |        |        |        | °C         |      |

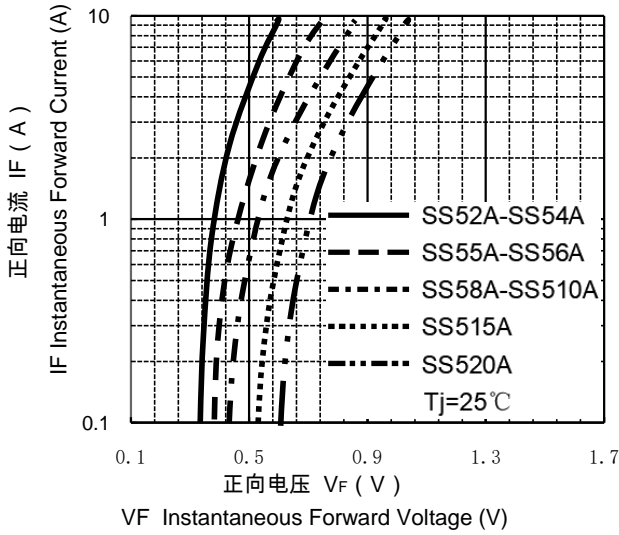
备注 Note:

- 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

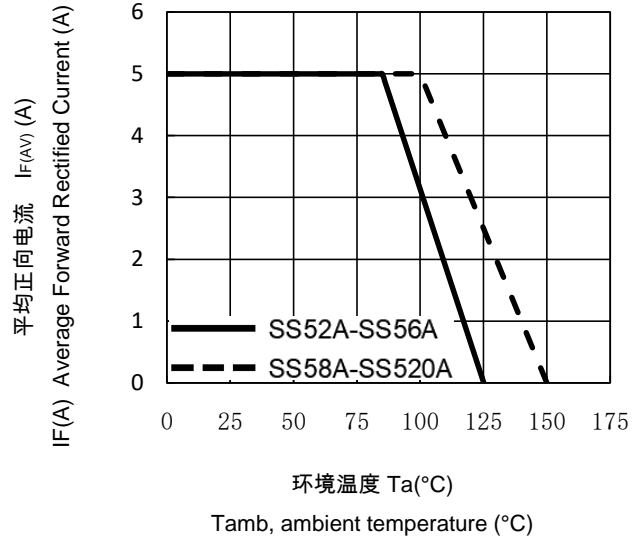
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



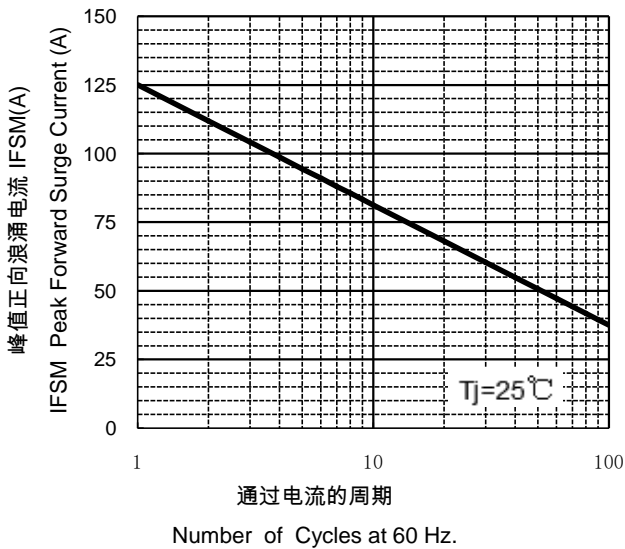
正向电流降额曲线

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

