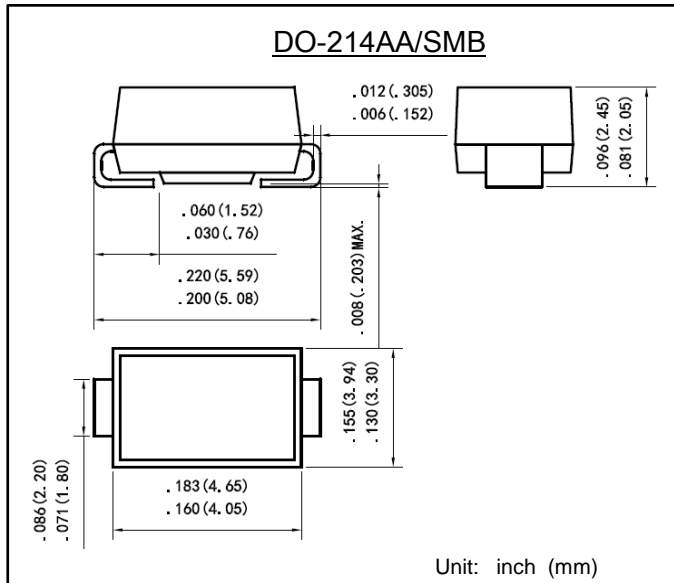


表面安装肖特基二极管  
反向电压 20 ~ 200 V  
正向电流 5.0 A

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-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°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   | SS52<br>B    | SS53<br>B | SS54<br>B | SS55<br>B | SS56<br>B | SS58<br>B    | SS510<br>B | SS515<br>B | SS520<br>B | 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 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 | $I_{FSM}$       | 150          |           |           |           |           |              |            |            |            | 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   | $I_R$           | 1000         |           |           |           |           | 100          |            |            |            |            | μA |
|  |                 | 20           |           |           |           |           | 10           |            |            |            |            | mA |
| 典型热阻 Typical thermal resistance (Note 1)   | $R_{\theta JA}$ | 85           |           |           |           |           |              |            |            |            | °C/W       |    |
|  | $R_{\theta JL}$ | 25           |           |           |           |           |              |            |            |            |            |    |
| 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:

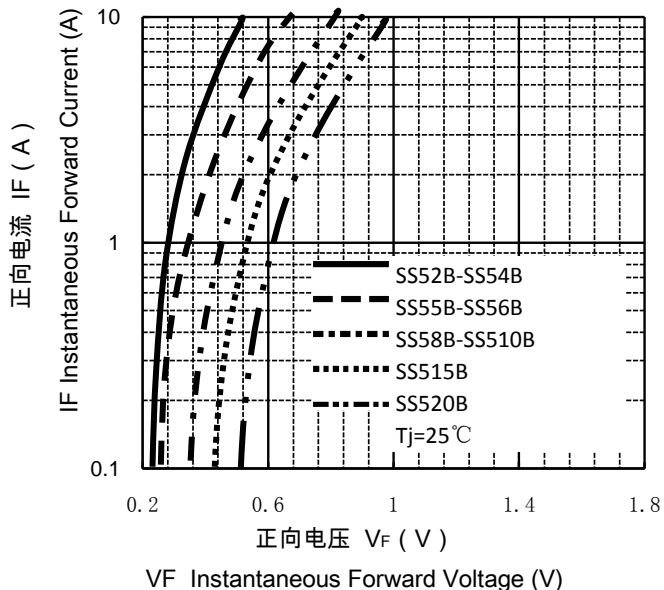
1) 安装在PCB板上, 从PN结到周围环境的热阻。

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

## 特性曲线 Characteristic Curves

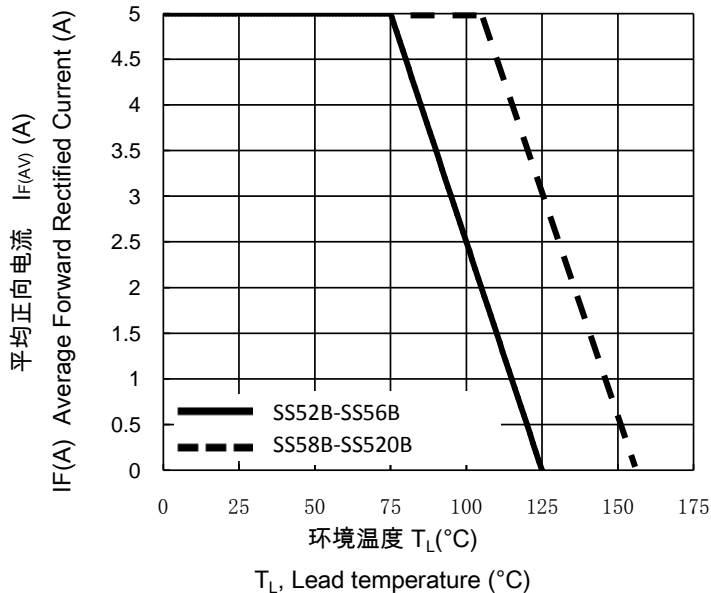
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



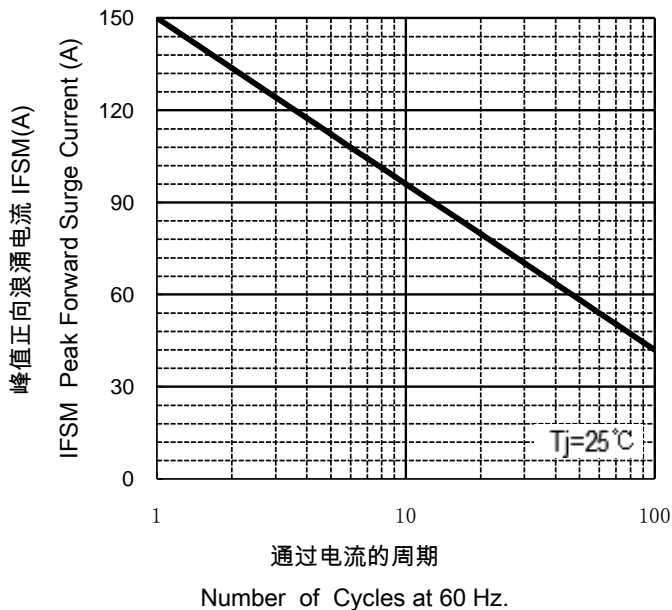
正向电流降额曲线

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

