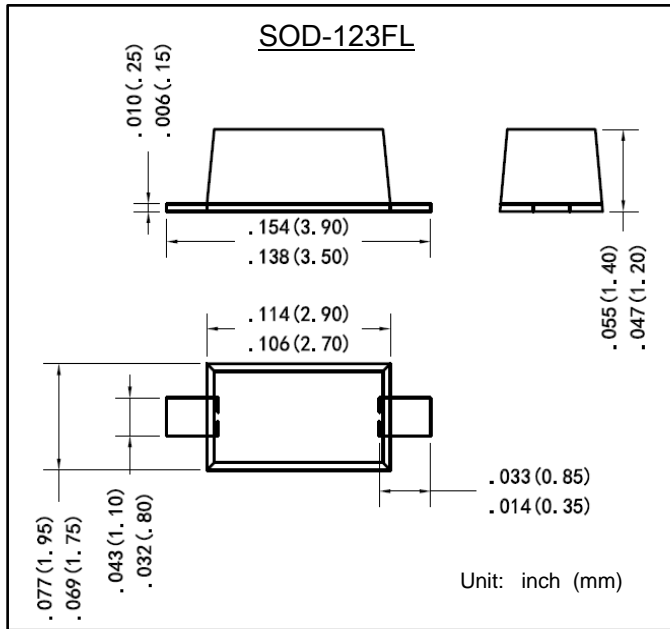


表面安装肖特基二极管  
反向电压 20 ~ 200 V  
正向电流 1.0 A

Surface Mounted Schottky Barrier Rectifiers  
Reverse Voltage 20 ~ 200 V  
Forward Current 1.0 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: SOD-123FL 塑封 Case: SOD-123FL 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                      | DSS12        | DSS13 | DSS14 | DSS15 | DSS16 | DSS18        | DSS110 | DSS115 | DSS120 | 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  | $I_{F(AV)}$                        | 1.0          |       |       |       |       |              |        |        |        | 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 single half sine-wave | $I_{FSM}$                          | 30           |       |       |       |       |              |        |        |        | A          |      |
| 最大正向电压 @IF=1.0A<br>Maximum forward voltage   | $V_F$                              | 0.55         |       |       | 0.70  |       | 0.85         |        | 0.92   | 0.95   | V          |      |
| 最大反向电流 @VDC TA= 25°C<br>Maximum reverse current TA= 100°C  | $I_R$                              | 0.5          |       |       |       |       | 0.1          |        |        |        | mA         |      |
|  |                                    | 20           |       |       |       |       | 10           |        |        |        |            |      |
| 典型热阻 Typical thermal resistance<br>(Note 1)  | $R_{\theta JA}$<br>$R_{\theta JL}$ | 180          |       |       |       |       | 55           |        |        |        |            | °C/W |
| 典型结电容 VR=4.0V, f=1MHz<br>Type junction capacitance   | $C_J$                              | 90           |       |       |       |       |              |        |        |        | 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:

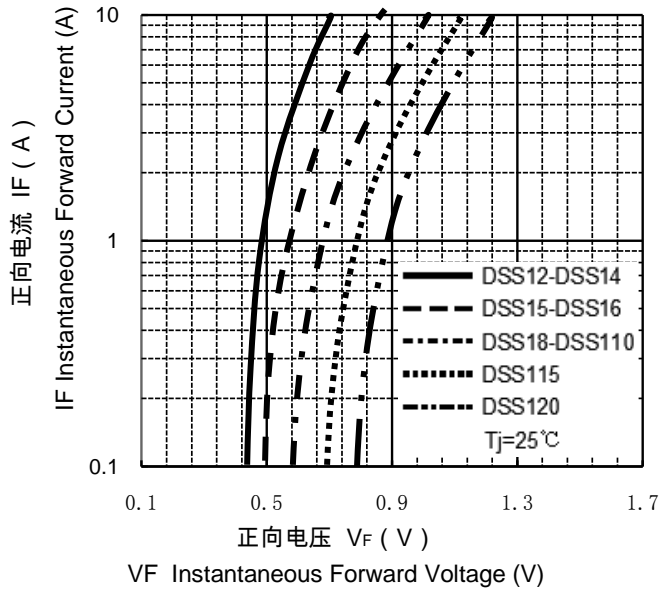
1) 安装在PCB板上, 从PN结到周围环境的热阻。

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

## 特性曲线 Characteristic Curves

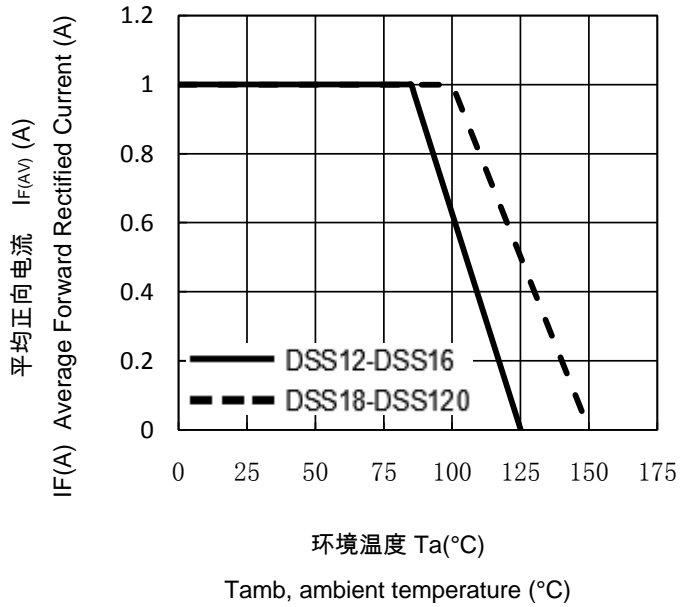
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



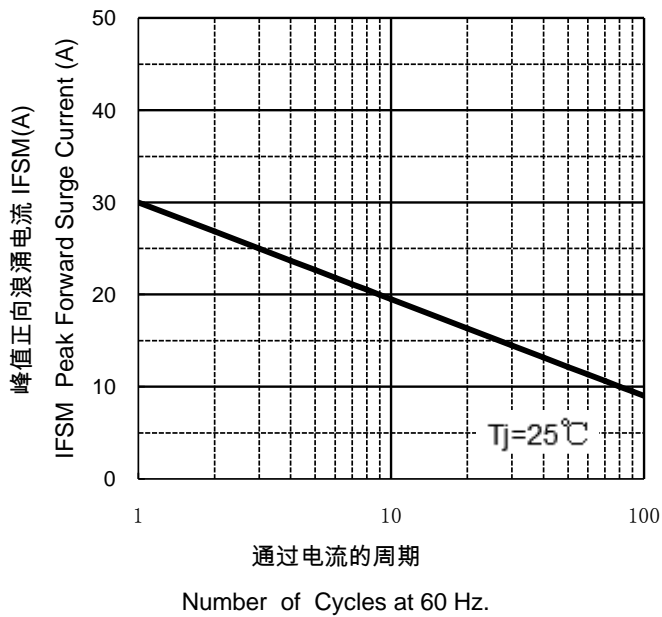
正向电流降额曲线

FORWARD CURRENT DERATING CURVE



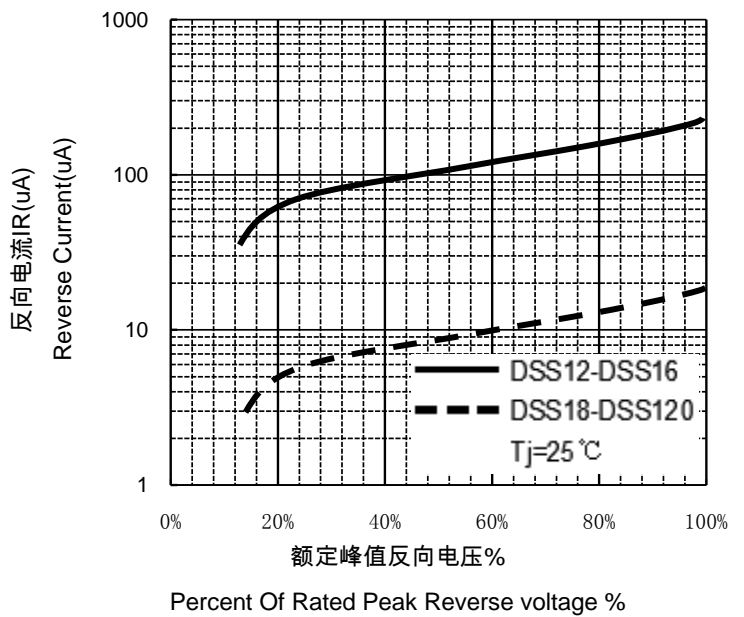
浪涌特性曲线 (最大值)

MAXIMUM NON REPETITIVE  
PEAK FORWARD SURGE CURRENT



反向特性曲线

Typical Reverse Characteristics



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