

## 表面安装肖特基二极管

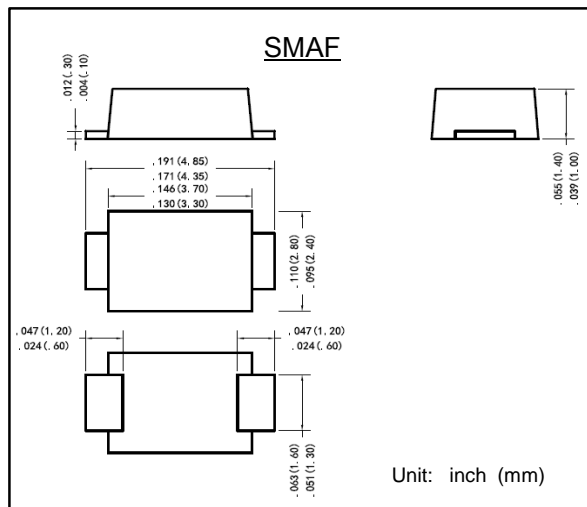
## Surface Mounted Schottky Barrier Rectifiers

反向电压 40 ~ 200 V

Reverse Voltage 40 ~ 200 V

正向电流 5.0 A

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:SMAF塑封 Case:SMAF 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 Parameter	符号 Symbols	SS54F	SS56F	SS510F	SS515F	SS520F	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	$V_{RRM}$	40	60	100	150	200	V
最大均方根电压 Maximum RMS voltage	$V_{RMS}$	28	42	70	105	140	V
最大直流阻断电压 Maximum DC blocking voltage	$V_{DC}$	40	60	100	150	200	V
最大正向平均整流电流 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 8.3 ms single half sine-wave	$I_{FSM}$	150					A
最大正向电压 @ $I_F=5.0A$ Maximum forward voltage	$V_F$	0.55	0.70	0.85	0.95		V
最大反向电流 @ $V_{DC}$ Maximum reverse current	$I_R$	500		100			$\mu A$
$T_A=25^\circ C$		20		10			mA
典型热阻 Typical thermal resistance (Note 1)	$R_{\theta JA}$	85					$^\circ C/W$
	$R_{\theta JL}$	19					
典型结电容 $V_R=4.0V, f=1MHz$ Type junction capacitance	$C_J$	300					pF
工作结温 Operating junction	$T_J$	-55 --- +125		-55 --- +150			$^\circ C$
存储温度 Storage temperature rang	$T_{STG}$	-55 --- +150					$^\circ C$

备注 Note:

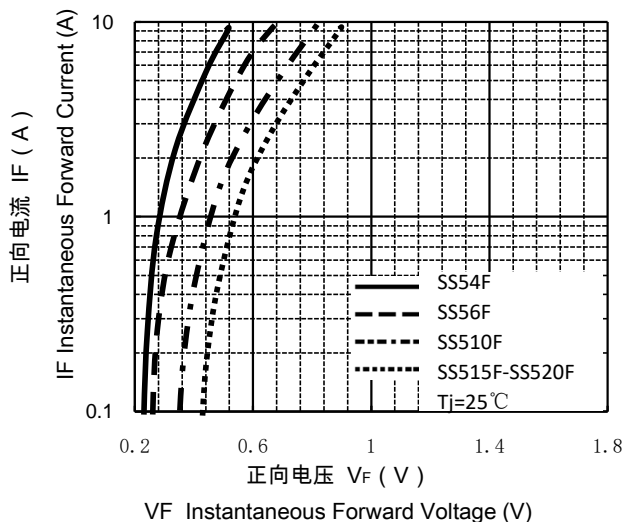
1) 安装在PCB板上, 从PN结到周围环境的热阻。

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

## 特性曲线 Characteristic Curves

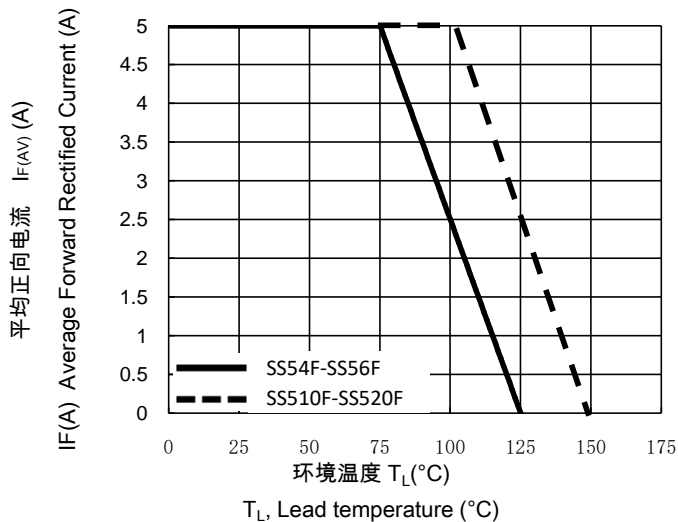
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



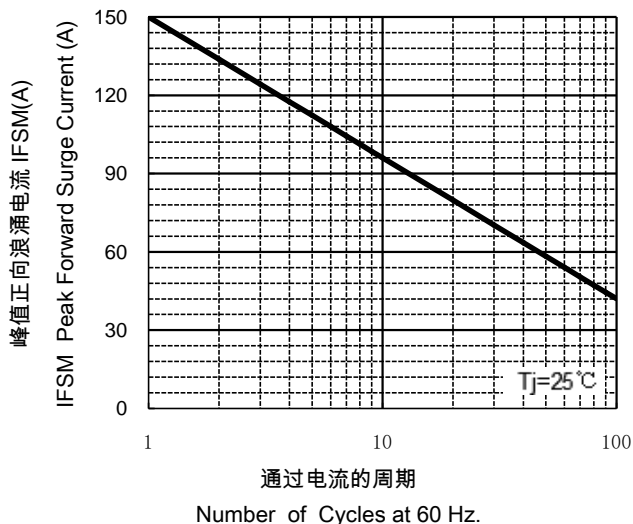
正向电流降额曲线

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

