

表面安装肖特基二极管

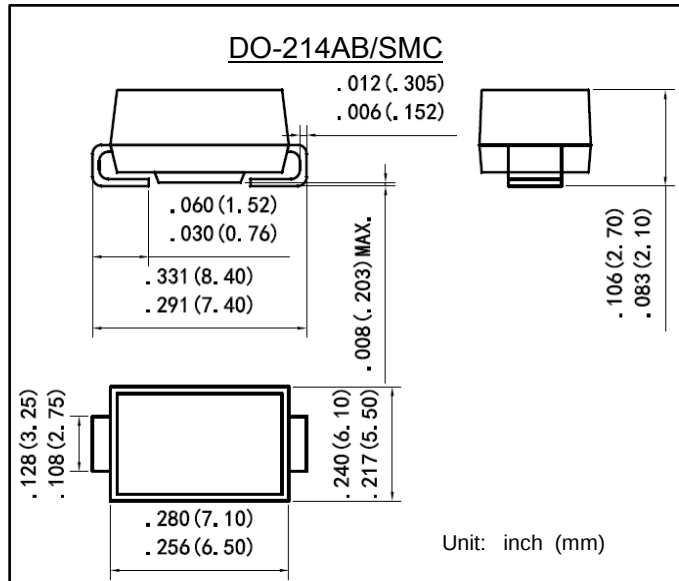
反向电压 20 ~ 200 V

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-214AB塑封 Case:DO-214AB 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	SS52	SS53	SS54	SS55	SS56	SS58	SS510	SS515	SS520	单位 Unit
最大可重复峰值反向电压 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 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 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 Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I _{FSM}	150									A
最大正向电压 @IF=5.0A Maximum forward voltage	V _F	0.55			0.70		0.85		0.92	0.95	V
最大反向电流 @V _{DC} TA= 25℃ Maximum reverse current TA= 100℃	I _R	0.5					0.1			mA	
		20					10				
典型热阻 Typical thermal resistance (Note 1)	R _{θJA} R _{θJL}	65 15									℃/W
典型结电容 VR=4.0V,f=1MHz Type junction capacitance	C _J	400									pF
工作结温 Operating junction	T _J	-55 --- +125					-55 --- +150				℃
存储温度 Storage temperature rang	T _{STG}	-55 --- +150									℃

备注 Note:

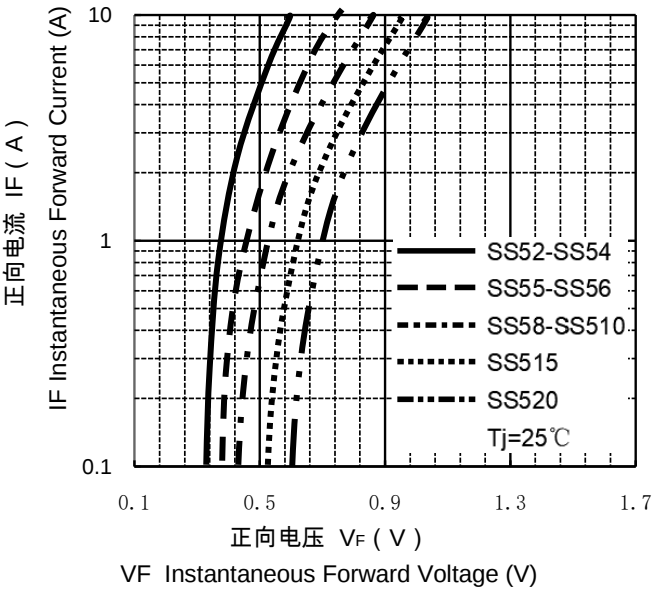
1) 安装在PCB板上, 从PN结到周围环境的热阻。

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

特性曲线 Characteristic Curves

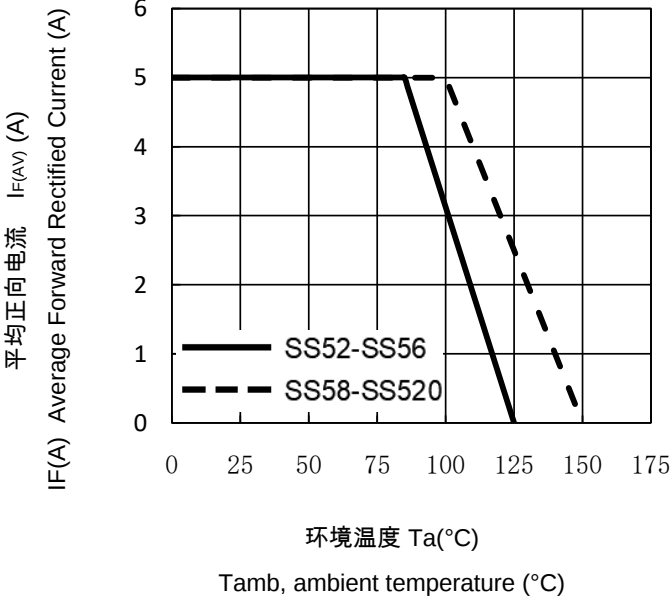
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



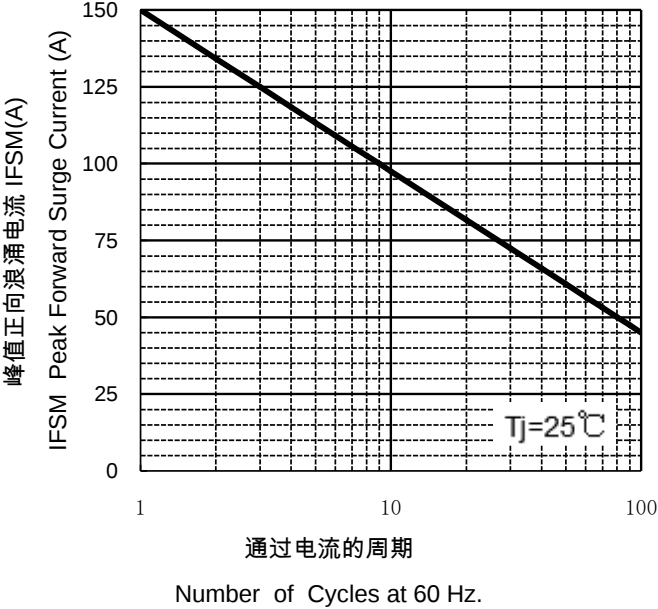
正向电流降额曲线

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

