TSS32LA-TSS310LA
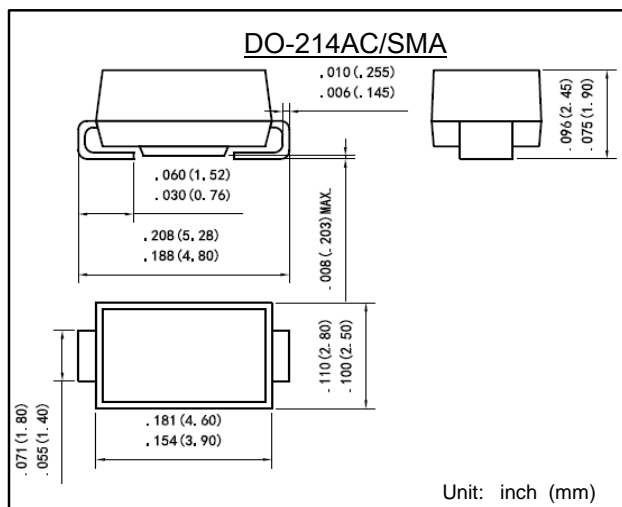
表面安装肖特基二极管
反向电压 20 ~ 100 V
正向电流 3.0 A

Surface Mounted Trench Low VF Schottky Barrier Rectifiers
Reverse Voltage 20 ~ 100 V
Forward Current 3.0 A

DO-214AC/SMA

.010 (.255)
.006 (.145)

.096 (2.45)
.075 (1.90)

.060 (1.52)
.030 (0.76)

.208 (5.28)
.188 (4.80)

.008 (.203) MAX.

.110 (2.80)
.100 (2.50)

.181 (4.60)
.154 (3.90)

.071 (1.80)
.055 (1.40)

Unit: inch (mm)

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℃/10 秒
  260℃/10seconds
- 引线和管体皆符合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℃ 除非另有规定。
Maximum Ratings & Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

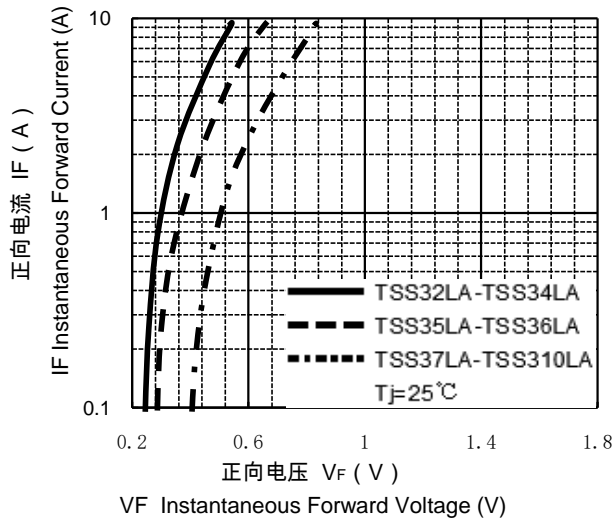| 参数 Parameter	符号 Symbols	TSS 32LA	TSS 33LA	TSS 34LA	TSS 35LA	TSS 36LA	TSS 37LA	TSS 38LA	TSS 39LA	TSS 310LA	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	70	80	90	100	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	14	21	28	35	42	49	56	63	70	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	70	80	90	100	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	3.0									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}	80									A
最大正向电压 @IF=3.0A Maximum forward voltage	V_F	0.42			0.50		0.58		0.65		V
最大反向电流 @V_{DC} TA= 25℃ Maximum reverse current TA= 100℃	I_R	0.5 50									mA
典型热阻 Typical thermal resistance (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	125 20									℃/W
典型结电容 VR=4.0V,f=1MHz Type junction capacitance	C_J	320									pF
工作结温 Operating junction	T_J	-55 --- +125									℃
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）
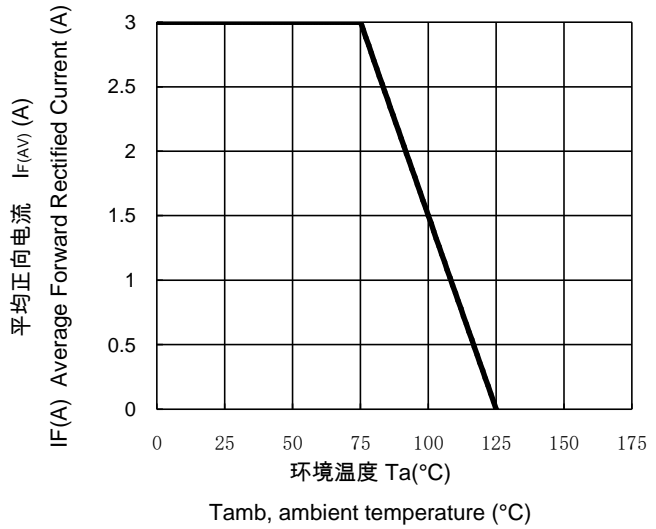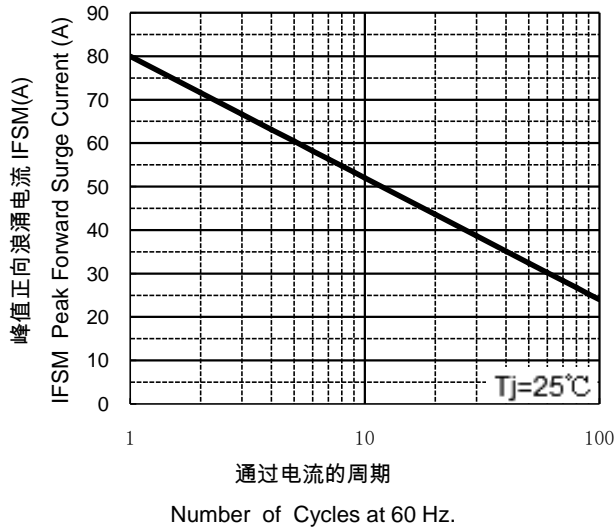### TYPICAL FORWARD CHARACTERISTIC

正向电流　IF（A）
IF Instantaneous Forward Current (A)

TSS32LA-TSS34LA
TSS35LA-TSS36LA
TSS37LA-TSS310LA
Tj=25℃

正向电压　VF（V）
VF Instantaneous Forward Voltage (V)

正向电流降额曲线
FORWARD CURRENT DERATING CURVE

平均正向电流　IF(AV)（A）
IF(A) Average Forward Rectified Current (A)

环境温度 Ta(℃)
Tamb, ambient temperature (°C)

浪涌特性曲线（最大值）
MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT

峰值正向浪涌电流 IFSM(A)
IFSM Peak Forward Surge Current (A)

Tj=25℃

通过电流的周期
Number of Cycles at 60 Hz.

反向特性曲线
Typical Reverse Characteristics

反向电流IR(uA)
Reverse Current(uA)

Tj=25℃

额定峰值反向电压%
Percent Of Rated Peak Reverse voltage %