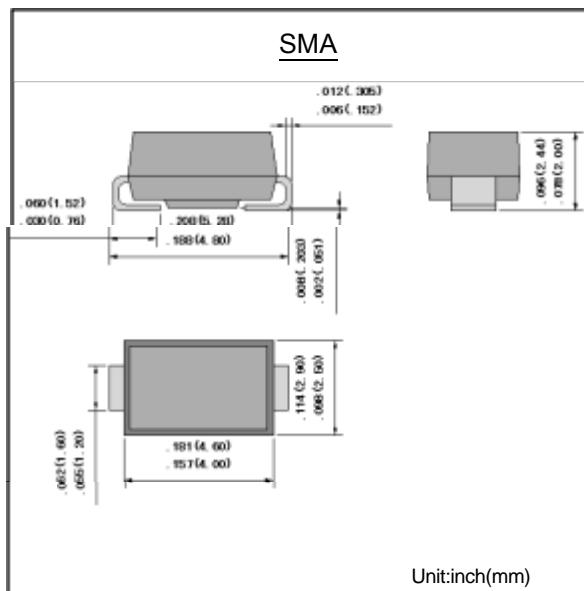


表面安装高效率整流二极管  
反向电压 50~1000 V  
正向电流1.0 A



## Surface Mounted High-efficiency Rectifiers

Reverse Voltage 50~1000 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
- 玻璃钝化芯片 Glass passivated chip
- 高温焊接保证 High temperature soldering guaranteed: 260°C/10 秒 260°C/10 seconds
- 引线和管体皆符合 RoHS 标准 Lead and body according with RoHS standard

## 机械数据 Mechanical Data

- 封装外形: SMA 塑封 Case: SMA 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	US1A	US1B	US1D	US1G	US1J	US1K	US1M	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
最大均方根电压 Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
最大直流阻断电压 Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
最大正向平均整流电流 Maximum average forward rectified current	I <sub>F(AV)</sub>								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 single half sine-wave	I <sub>FSM</sub>								A
最大正向电压 @ IF=1.0A Maximum forward voltage	V <sub>F</sub>			1.0		1.3		1.7	V
最大反向电流 @ V <sub>DC</sub> TA= 25°C Maximum reverse current	I <sub>R</sub>					5			μA
最大反向恢复时间 IF=0.5A, IR=1.0A, IRR=0.25A MAX. reverse recovery time	T <sub>rr</sub>			50			75		ns
典型热阻 Typical thermal resistance (Note1)	R <sub>θJA</sub>			125					°C/W
工作结温和存储温度 Operating junction and storage temperature range	T <sub>j</sub> , T <sub>STG</sub>			-55 ---+150					°C

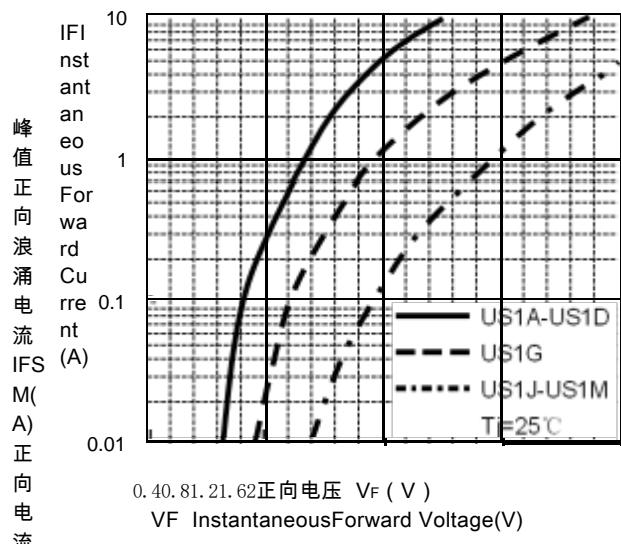
备注 Note:

- 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CharacteristicCurves

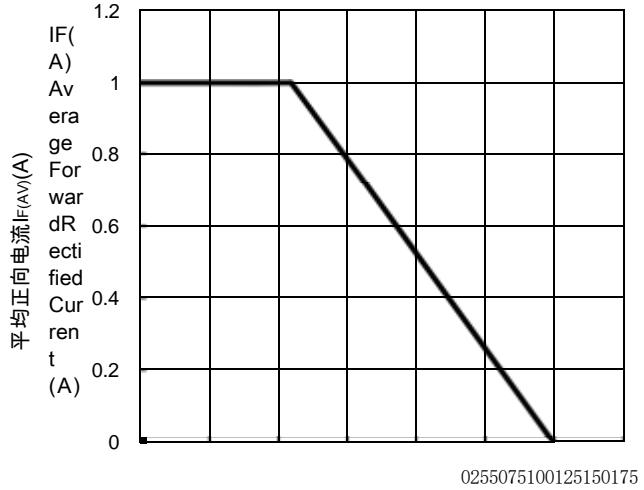
正向特性曲线(典型值)

TYPICAL FORWARD CHARACTERISTIC



正向电流降额曲线

FORWARD CURRENT DERATING CURVE



浪涌特性曲线(最大值)反向特性曲线

MAXIMUM NONREPETITIVE TYPICAL REVERSE CHARACTERISTICS

PEAK FORWARD SURGE CURRENT

