



表面安装高效率整流二极管

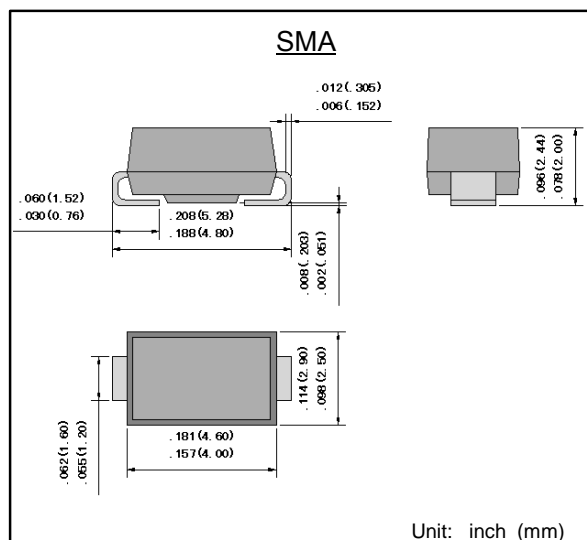
反向电压 1200 V

正向电流 1.0 A

Surface Mounted High-efficiency Rectifiers

Reverse Voltage 1200 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/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: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

极限值和温度特性 TA = 25°C 除非另有规定。

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

| 参数 Parameter | 符号 Symbols | US112 | 单位 Unit |
|--|-----------------|--------------|------------|
| 最大可重复峰值反向电压 Maximum repetitive peak reverse voltage | V_{RRM} | 1200 | V |
| 最大均方根电压 Maximum RMS voltage | V_{RMS} | 840 | V |
| 最大直流阻断电压 Maximum DC blocking voltage | V_{DC} | 1200 | V |
| 最大正向平均整流电流 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 8.3 ms singlehalf sine-wave | I_{FSM} | 25 | A |
| 典型热阻 Typical thermal resistance (Note 1) | $R_{\theta JA}$ | 75 | °C/W |
| 工作结温和存储温度 Operating junction and storage temperature rang | T_j, T_{STG} | -55 --- +175 | °C |

备注 Note:

1) 安装在覆铜面积5.0毫米*5.0毫米的PCB板上, 从PN结到周围环境的热阻。

1) Thermal resistance from junction to ambient, PCB mounted with 5.0mm*5.0mm Copper Pad Areas.

电特性 TA = 25°C 除非另有规定。

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

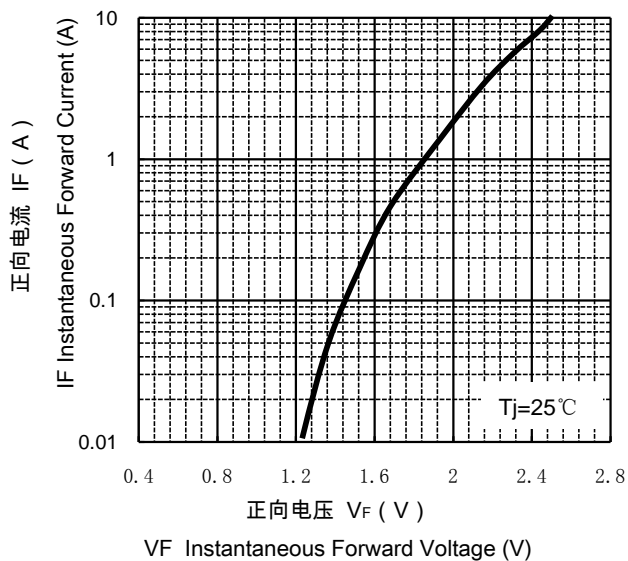
| 参数 Parameter | 符号 Symbols | US112 | 单位 Unit |
|--|---------------|-------|------------|
| 最大正向电压 @IF=1.0A Maximum forward voltage | V_F | 1.9 | V |
| 最大反向电流 @V _{DC} TA = 25°C Maximum reverse current | I_R | 5 | μA |
| 最大反向恢复时间 IF=0.5A, IR=1.0A, IRR=0.25A MAX. reverse recovery time | T_{rr} | 75 | ns |



特性曲线 Characteristic Curves

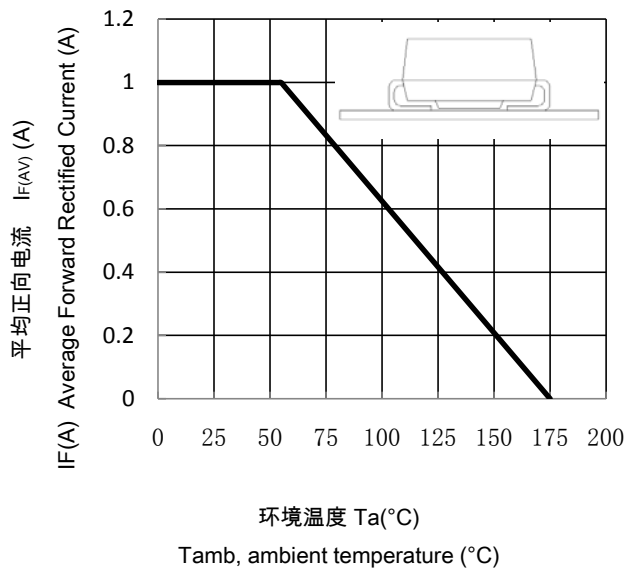
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



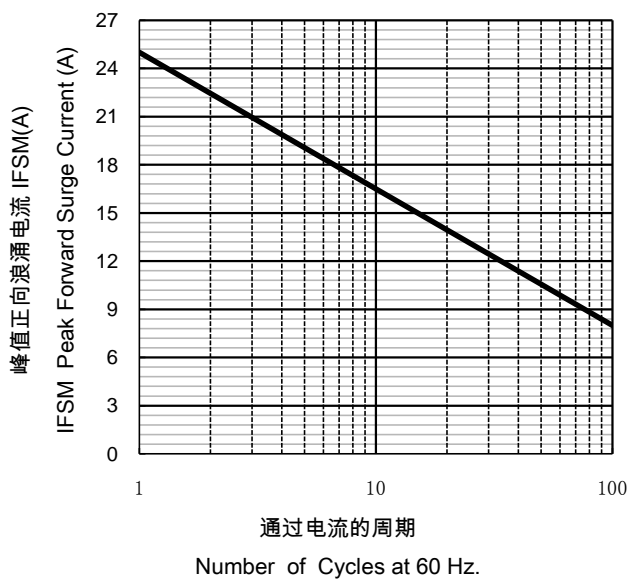
正向电流降额曲线

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

