

## 表面安装普通整流二极管

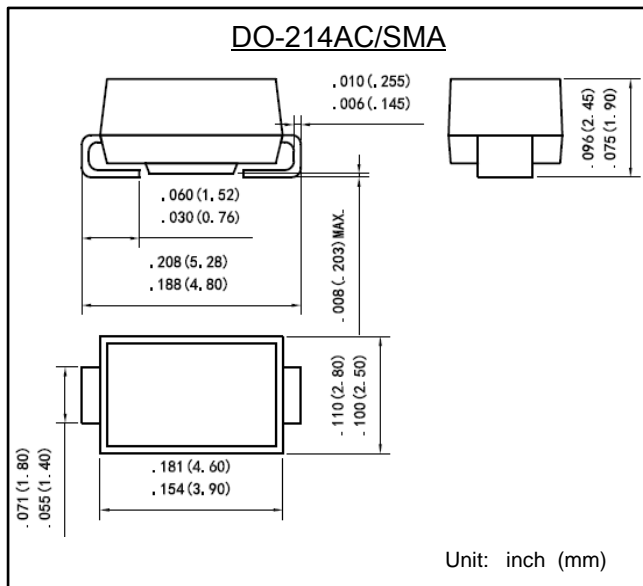
反向电压 50 ~ 1000 V

正向电流 1.0 A

## Surface Mount General-purpose 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
- 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: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°C 除非另有规定。

### Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

| 参数<br>Parameter  | 符号<br>Symbols   | M1           | M2  | M3  | M4  | M5  | M6  | M7   | 单位<br>Unit |
|--|-----------------|--------------|-----|-----|-----|-----|-----|------|------------|
| 印字<br>Marking  | /               | M1           | M2  | M3  | M4  | M5  | M6  | M7   | /          |
| 最大可重复峰值反向电压<br>Maximum repetitive peak reverse voltage   | $V_{RRM}$       | 50           | 100 | 200 | 400 | 600 | 800 | 1000 | V          |
| 最大均方根电压 Maximum RMS voltage  | $V_{RMS}$       | 35           | 70  | 140 | 280 | 420 | 560 | 700  | V          |
| 最大直流阻断电压<br>Maximum DC blocking voltage  | $V_{DC}$        | 50           | 100 | 200 | 400 | 600 | 800 | 1000 | V          |
| 最大正向平均整流电流<br>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<br>Non-repetitive peak forward surge current<br>8.3 ms singlehalf sine-wave | $I_{FSM}$       | 30           |     |     |     |     |     |      | A          |
| 最大正向电压 @IF=1.0A<br>Maximum forward voltage   | $V_F$           | 1.1          |     |     |     |     |     |      | V          |
| 最大反向电流 @V <sub>DC</sub><br>Maximum reverse current   | $I_R$           | 5            |     |     |     |     |     |      | μA         |
| TA= 25°C   |                 | 100          |     |     |     |     |     |      |            |
| 典型热阻 Typical thermal resistance (Note 1)   | $R_{\theta JA}$ | 47           |     |     |     |     |     |      | °C/W       |
| 典型结电容 VR=4.0V,f=1MHz<br>Type junction capacitance  | $C_J$           | 65           |     |     |     |     |     |      | pF         |
| 工作结温和存储温度<br>Operating junction and storage temperature rang                                       | $T_J, T_{STG}$  | -55 --- +150 |     |     |     |     |     |      | °C         |

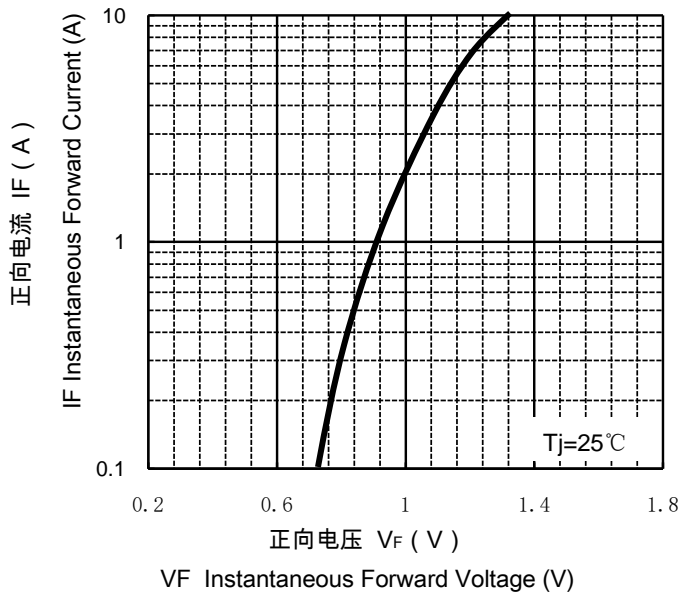
备注 Note:

- 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 Characteristic Curves

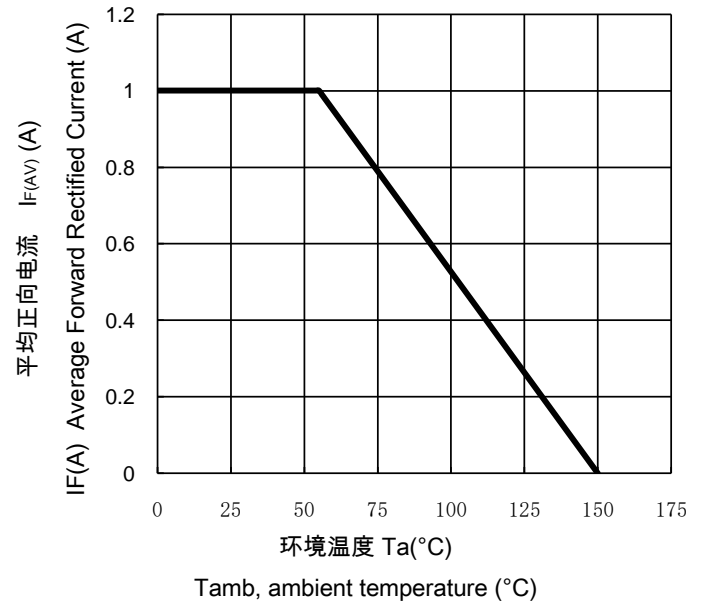
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



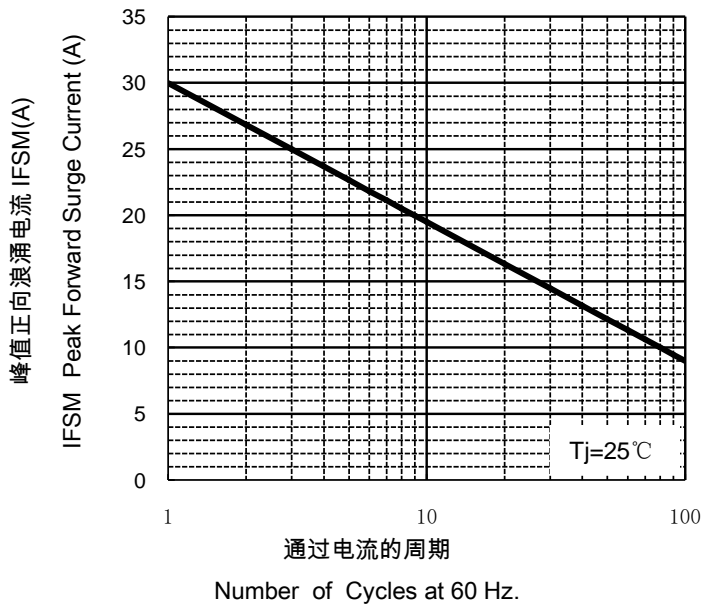
正向电流降额曲线

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

