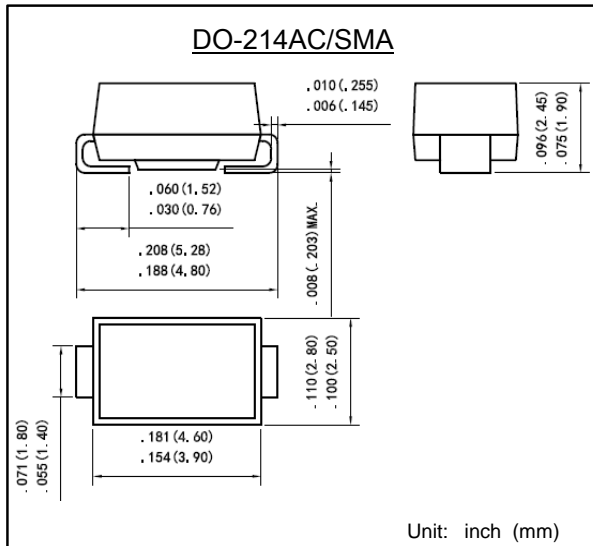


表面安装超快速整流二极管  
反向电压 50~1000 V  
正向电流 1.0 A

Surface Mount Super Fast Recovery 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   | RS1A         | RS1B | RS1D | RS1G | RS1J | RS1K | RS1M | 单位<br>Unit |
|--|-----------------|--------------|------|------|------|------|------|------|------------|
| 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 @ $I_F=1.0A$<br>Maximum forward voltage   | $V_F$           | 1.30         |      |      |      |      |      |      | V          |
| 最大反向电流 @ $V_{DC}$<br>Maximum reverse current   | $I_R$           | 5            |      |      |      |      |      |      | $\mu A$    |
| TA= 25°C   |                 | 100          |      |      |      |      |      |      |            |
| 最大反向恢复时间 $I_F=0.5A$ , $I_R=1.0A$ , $I_{RR}=0.25A$<br>MAX. reverse recovery time                    | $T_{RR}$        | 150          |      |      | 250  | 500  |      | nS   |            |
| 典型热阻 Typical thermal resistance (Note 1)   | $R_{\theta JA}$ | 85           |      |      |      |      |      |      | °C/W       |
| 典型结电容 $V_R=4.0V, f=1MHz$<br>Type junction capacitance  | $C_J$           | 10           |      |      |      |      |      |      | pF         |
| 工作结温和存储温度<br>Operating junction and storage temperature rang                                       | $T_J, T_{STG}$  | -55 --- +150 |      |      |      |      |      |      | °C         |

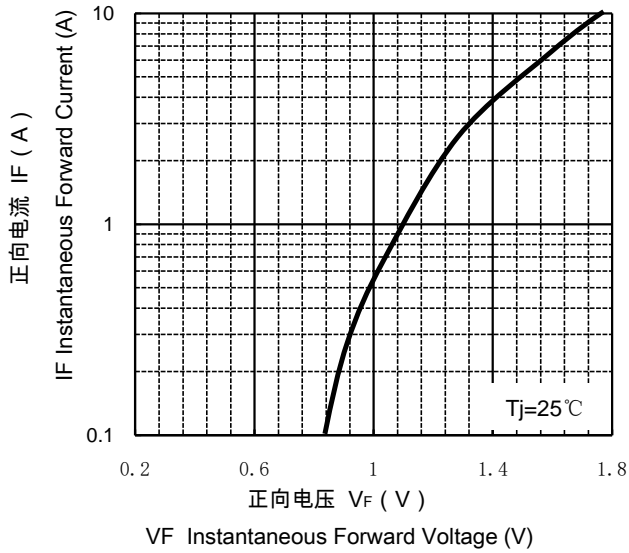
备注 Note:

- 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

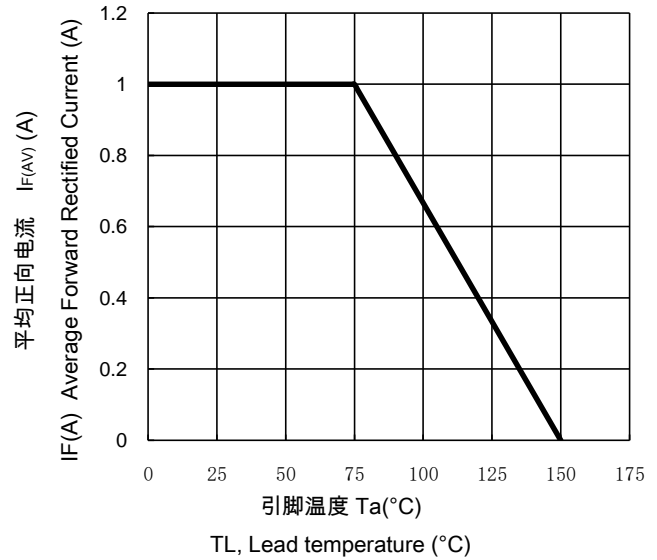
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



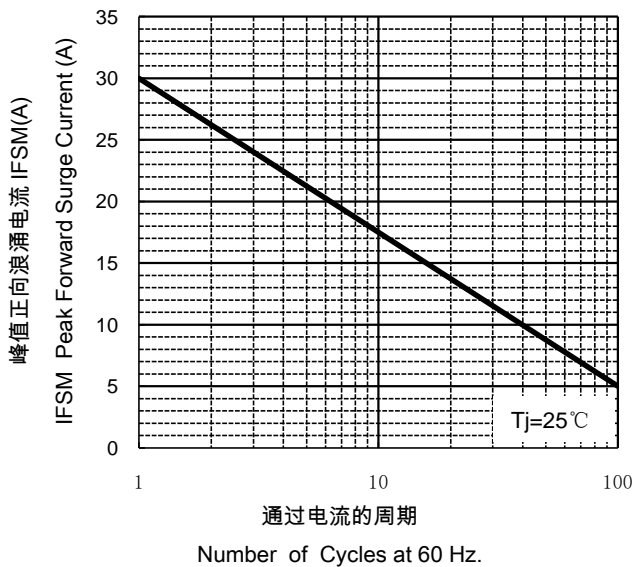
正向电流降额曲线

FORWARD CURRENT DERATING CURVE



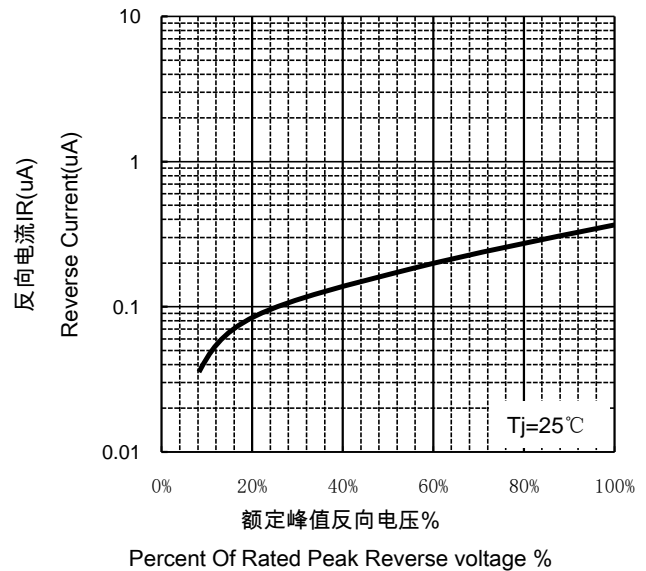
浪涌特性曲线 (最大值)

MAXIMUM NON REPETITIVE  
PEAK FORWARD SURGE CURRENT



反向特性曲线

Typical Reverse Characteristics



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