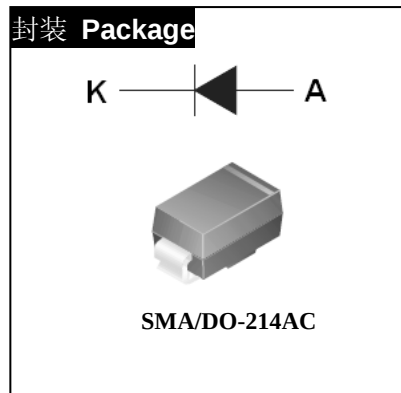




# RS1M

## 主要参数 MAIN CHARACTERISTICS

|              |       |
|--------------|-------|
| $I_{F(AV)}$  | 1A    |
| $V_{RRM}$    | 1000V |
| $T_j$        | 150℃  |
| $V_{F(max)}$ | 1.3V  |



## 产品特性

- 高效，快速开关
- 高电流能力
- 低功耗，高效率
- 玻璃钝化芯片

## FEATURES

- Fast switching for high efficiency
- High current capability
- Low power loss, high efficiency
- Glass passivated junction

## 订货信息 ORDER MESSAGE

| 订货型号 Order codes      |                            | 印 记<br>Marking | 封 装<br>Package |
|-----------------------|----------------------------|----------------|----------------|
| 有卤-编带<br>Halogen-Reel | 无卤-编带<br>Halogen Free-Reel |                |                |
| RS1M-XA-A             | RS1M-XA-AR                 | RS1M           | SMA            |



绝对最大额定值 ABSOLUTE RATINGS ( $T_A=25^{\circ}\text{C}$ )

| 项 目<br>Parameter                                                                                             | 符 号<br>Symbol | 数 值<br>Value | 单 位<br>Unit        |
|--------------------------------------------------------------------------------------------------------------|---------------|--------------|--------------------|
| 最大反向重复峰值电压<br>Maximum Repetitive Reverse Voltage                                                             | $V_{RRM}$     | 1000         | V                  |
| 最大均方根电压<br>Maximum RMS Voltage                                                                               | $V_{RMS}$     | 700          | V                  |
| 最大直流阻断电压<br>Maximum DC Blocking Voltage                                                                      | $V_{DC}$      | 1000         | V                  |
| 正向平均整流电流<br>Average Rectified Forward Current $T_A=50^{\circ}\text{C}$                                       | $I_{F(AV)}$   | 1            | A                  |
| 非重复峰值正向浪涌电流<br>Non-repetitive Peak Forward Surge Current 额定<br>负载 8.3ms 半正弦波<br>8.3 ms Single Half-Sine-Wave | $I_{FSM}$     | 30           | A                  |
| 最高结温<br>Maximum Junction Temperature                                                                         | $T_j$         | 150          | $^{\circ}\text{C}$ |
| 储存温度<br>Storage Temperature Range                                                                            | $T_{STG}$     | -55~+150     | $^{\circ}\text{C}$ |

## 电特性 ELECTRICAL CHARACTERISTICS

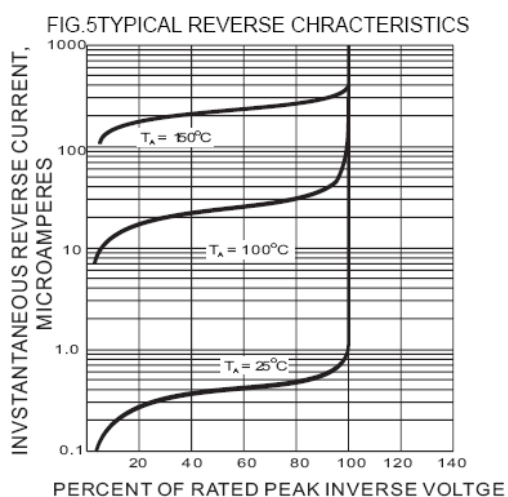
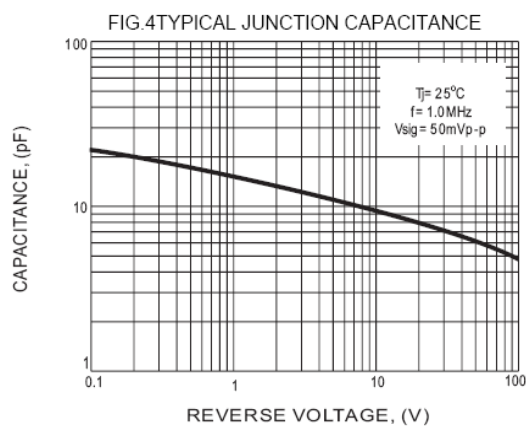
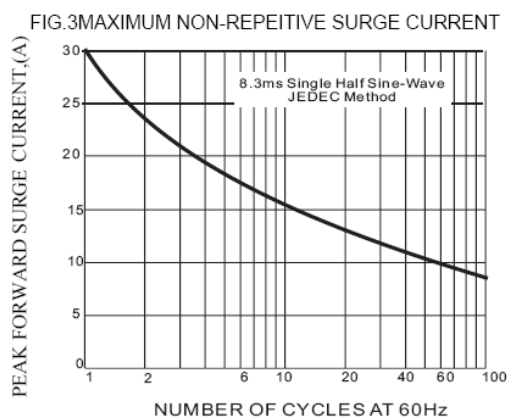
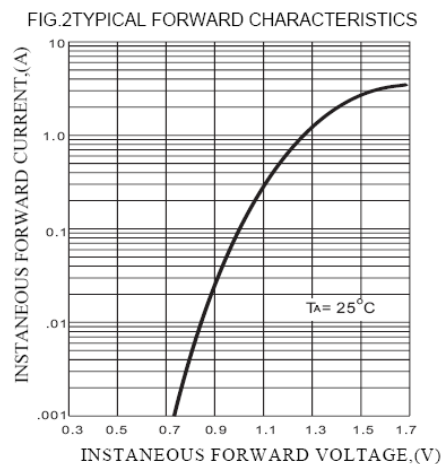
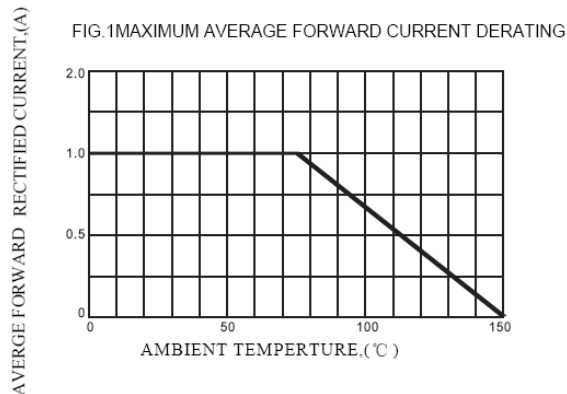
| 项 目<br>Parameter                                                                                     | 符 号<br>Symbol | 数 值<br>Value | 单 位<br>Unit   |
|------------------------------------------------------------------------------------------------------|---------------|--------------|---------------|
| 最大反向电流<br>Maximum Reverse Current $T_A = 25^{\circ}\text{C}$<br>$T_A = 100^{\circ}\text{C}$          | $I_R$         | 5.0<br>150   | $\mu\text{A}$ |
| 最大正向电压<br>Maximum Forward Voltage $I_F = 1.0 \text{ A}$                                              | $V_F$         | 1.3          | V             |
| 最大反向恢复时间<br>Maximum Reverse Recovery Time<br>$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{RR}=0.25\text{A}$ | $T_{rr}$      | 500          | ns            |
| 结电容<br>Typical Junction Capacitance<br>$V_R = 4.0 \text{ V}, f = 1.0 \text{ MHz}$                    | $C_J$         | 15           | pF            |

## 热特性 THERMAL CHARACTERISTICS

| 项 目<br>Parameter                                  | 符 号<br>Symbol   | 数 值<br>Value | 单 位<br>Unit          |
|---------------------------------------------------|-----------------|--------------|----------------------|
| 结到环境的热阻<br>Junction to Ambient Thermal Resistance | $R_{\theta JA}$ | 85           | $^{\circ}\text{C/W}$ |



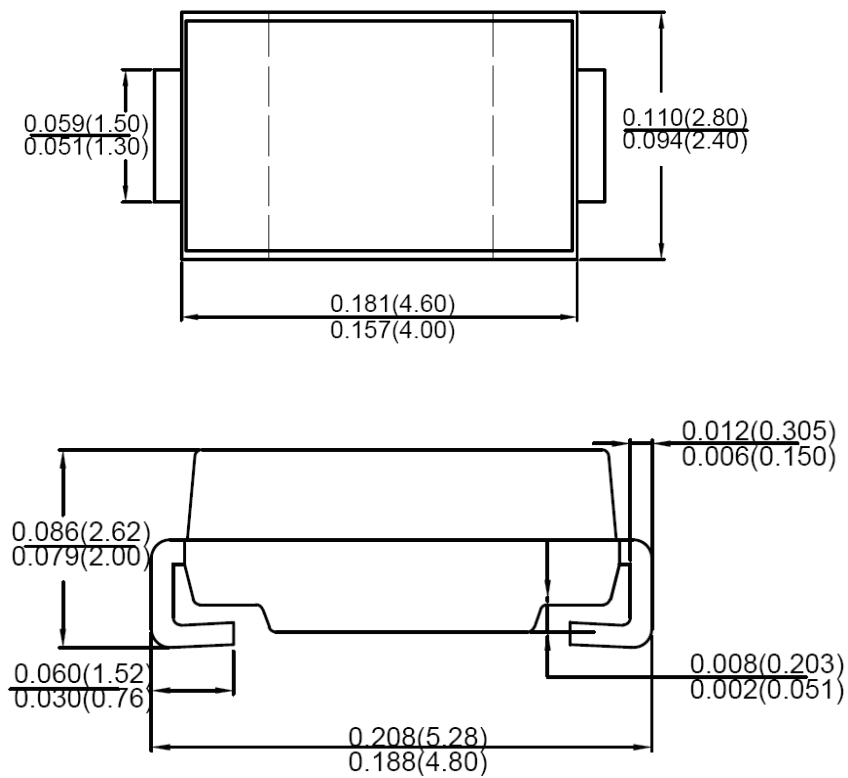
## 特征曲线 ELECTRICAL CHARACTERISTICS (curves)



## 外形尺寸 PACKAGE MECHANICAL DATA

**SMA**

Dimensions in inches and (milimeters)



**注意事项**

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