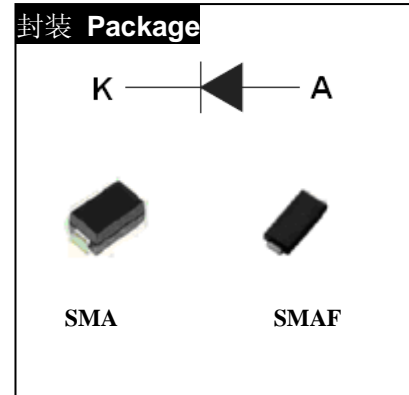




# ES2J

## 主要参数 MAIN CHARACTERISTICS

|              |       |
|--------------|-------|
| $I_{F(AV)}$  | 2A    |
| $V_{RRM}$    | 600 V |
| $T_j$        | 150°C |
| $V_{F(max)}$ | 1.7V  |



## 产品特性

- 表面贴装
- 易于安装
- 玻璃钝化芯片
- 高效率，超快恢复时间

## FEATURES

- For surface mount applications
- Easy pick and place
- Glass passivated junction
- Superfast recovery times for high efficiency

## 订货信息 ORDER MESSAGE

| 订货型号<br>Order codes | 印记<br>Marking | 封装<br>Package | 无卤素<br>Halogen Free | 包装<br>Packaging | 器件重量<br>Device Weight |
|---------------------|---------------|---------------|---------------------|-----------------|-----------------------|
| ES2J-X-A            | ES2J          | SMA           | 否 NO                | 卷盘 Reel         | 62mg(approx.)         |
| ES2J-XF-A           | ES2J          | SMAF          | 否 NO                | 卷盘 Reel         | 27mg(approx.)         |



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                       | $V_{RRM}$     | 600          | V                  |
| 最大均方根电压<br>Maximum RMS Voltage   | $V_{RMS}$     | 420          | V                  |
| 最大直流阻断电压<br>Maximum DC Blocking Voltage                                | $V_{DC}$      | 600          | V                  |
| 正向平均整流电流<br>Average Rectified Forward Current $T_A=50^{\circ}\text{C}$ | $I_{F(AV)}$   | 2            | A                  |
| 非重复峰值正向浪涌电流 额定<br>负载 8.3ms 半正弦波<br>8.3 ms Single Half-Sine-Wave        | $I_{FSM}$     | 60           | 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 $I_F = 2.0 \text{ A}$  | $V_F$         | 1.7          | V             |
| 最大反向恢复时间<br>Maximum Reverse Recovery Time<br>$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{RR}=0.25\text{A}$ . | $T_{rr}$      | 35           | ns            |
| 结电容<br>Typical Junction Capacitance<br>$V_R = 4.0 \text{ V}, f = 1.0 \text{ MHz}$                      | $C_J$         | 25           | pF            |

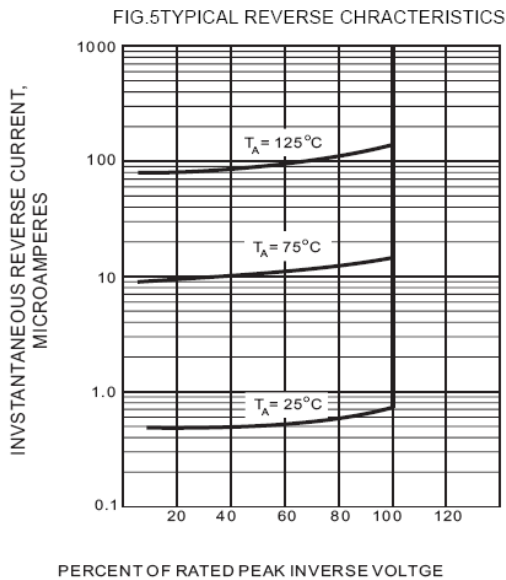
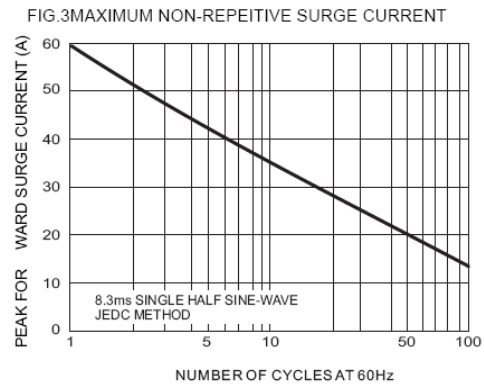
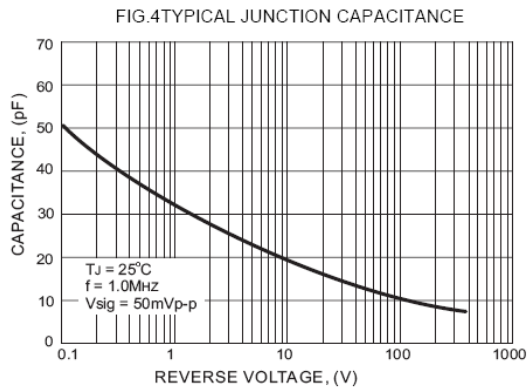
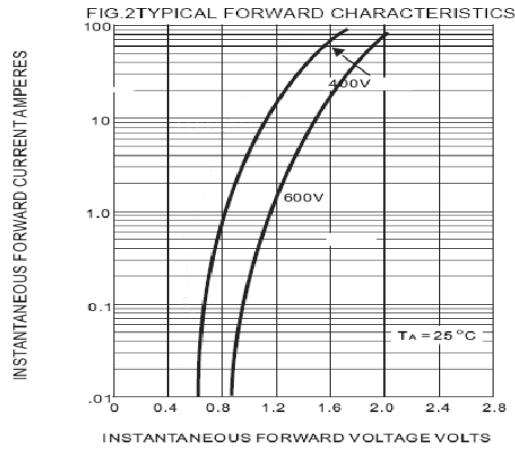
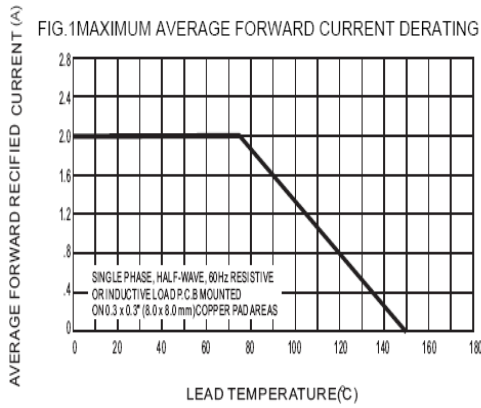
## 热特性 THERMAL CHARACTERISTICS

| 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           | $^{\circ}\text{C}/\text{W}$ |





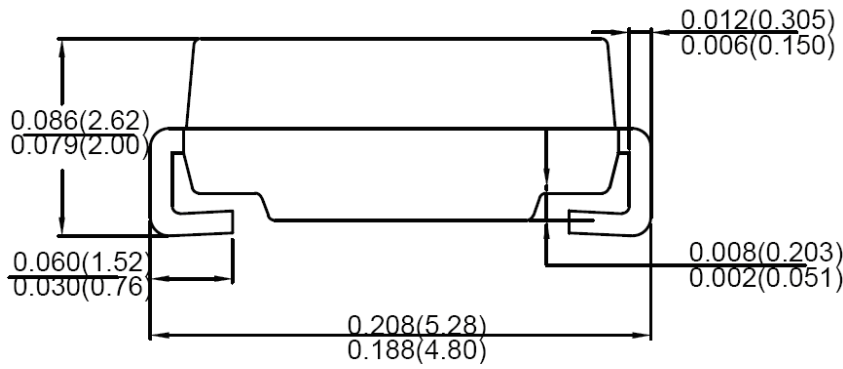
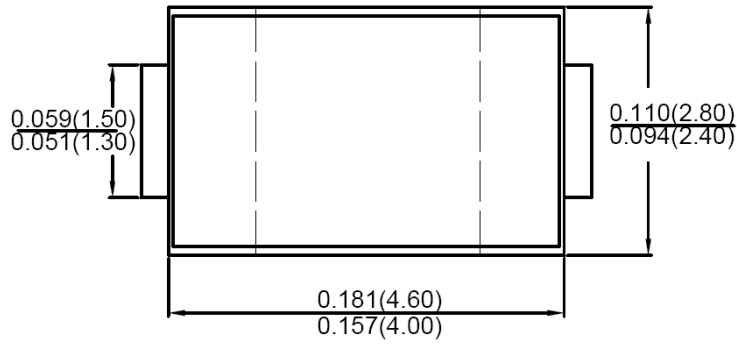
# 特征曲线 ELECTRICAL CHARACTERISTICS (curves)





SMA

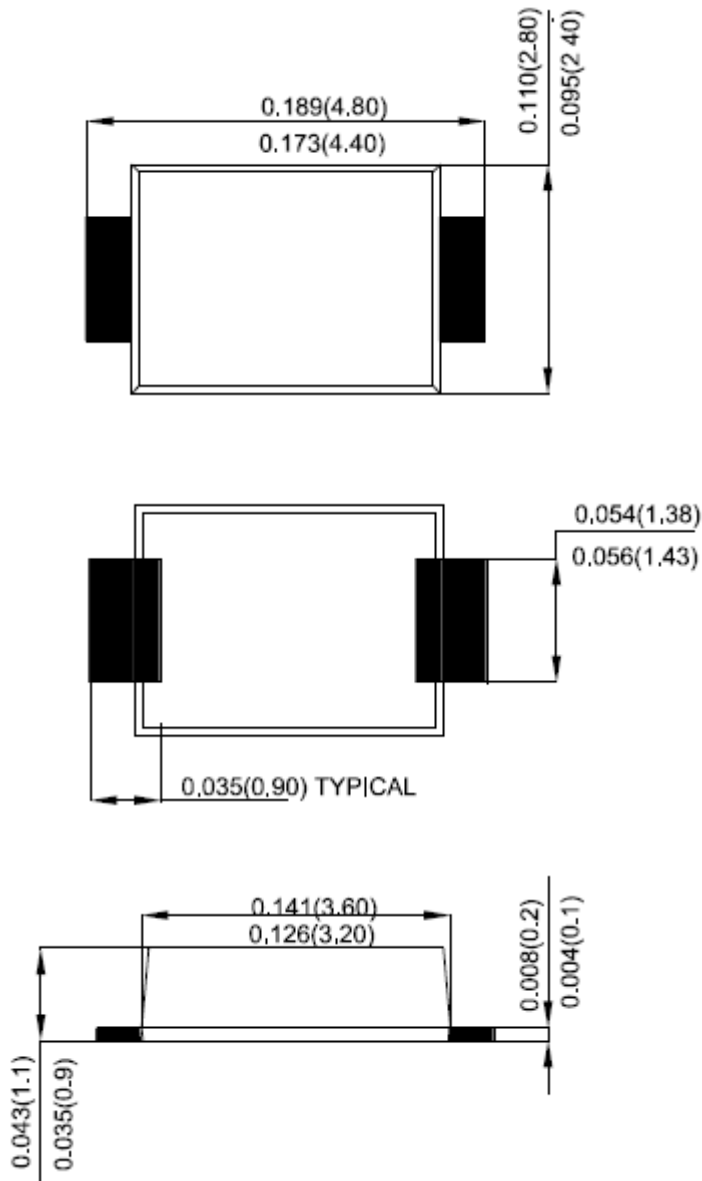
Dimensions in inches and(millimeters)





SMAF

Dimensions in inches and (millimeters)





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- 3.在电路设计时请不要超过器件的绝对最大额定值，否则会影响整机的可靠性。
- 4.本说明书如有版本变更不另外告知

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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
4. Jilin Sino-microelectronics co., Ltd reserves

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**附录 (Appendix): 修订记录 (Revision History)**

| 日期<br>Date | 旧版本<br>Last Rev. | 新版本<br>New Rev. | 修订内容<br>Description of Changes |
|------------|------------------|-----------------|--------------------------------|
|            |                  |                 |                                |

