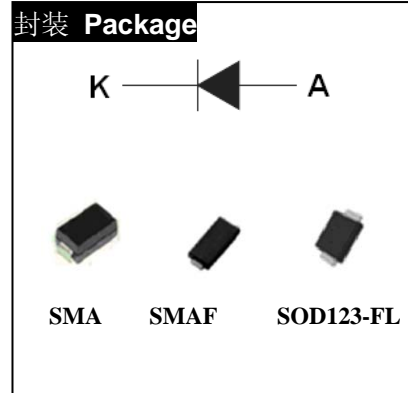




# ES1J

## 主要参数 MAIN CHARACTERISTICS

$I_{F(AV)}$	1A
$V_{RRM}$	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 Order codes	印记 Marking	封装 Package	无卤素 Halogen Free	包装 Packaging	器件重量 Device Weight
ES1J-X-A	ES1J	SMA	否 NO	卷盘 Reel	62mg(approx.)
ES1J-XF-A	ES1J	SMAF	否 NO	卷盘 Reel	27mg(approx.)
ES1J-O1F-A	E1J	SOD123-FL	否 NO	卷盘 Reel	15mg(approx.)



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

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
最大反向重复峰值电压 Maximum Repetitive Reverse Voltage	$V_{RRM}$	600	V
最大均方根电压 Maximum RMS Voltage	$V_{RMS}$	420	V
最大直流阻断电压 Maximum DC Blocking Voltage	$V_{DC}$	600	V
正向平均整流电流 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 Non-repetitive Peak Forward Surge Current 额定负载 8.3ms 半正弦 波 8.3 ms Single Half-Sine-Wave	$I_{FSM}$	35 30	A
最高结温 Maximum Junction Temperature	$T_j$	150	$^{\circ}\text{C}$
储存温度 Storage Temperature Range	$T_{STG}$	-55~+150	$^{\circ}\text{C}$

## 电特性 ELECTRICAL CHARACTERISTICS

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
最大反向电流 Maximum Reverse Current $T_A = 25^{\circ}\text{C}$ $T_A = 100^{\circ}\text{C}$	$I_R$	5.0 150	$\mu\text{A}$
最大正向电压 Maximum Forward Voltage $I_F = 1.0 \text{ A}$	$V_F$	1.7	V
最大反向恢复时间 Maximum Reverse Recovery Time $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{RR}=0.25\text{A}$ .	$T_{rr}$	35	ns
结电容 Typical Junction Capacitance $V_R = 4.0 \text{ V}, f = 1.0 \text{ MHz}$	$C_J$	10	pF





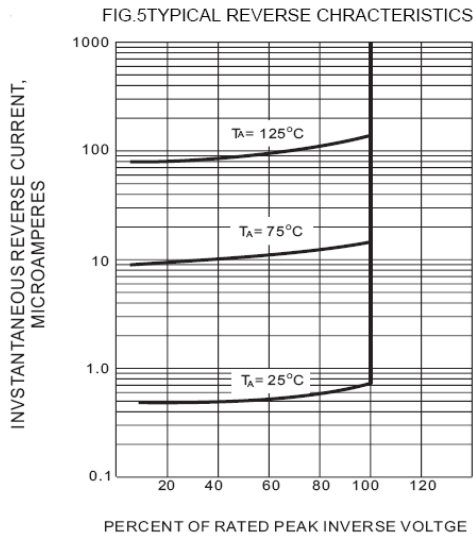
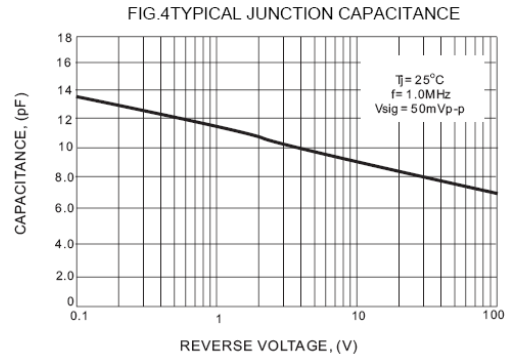
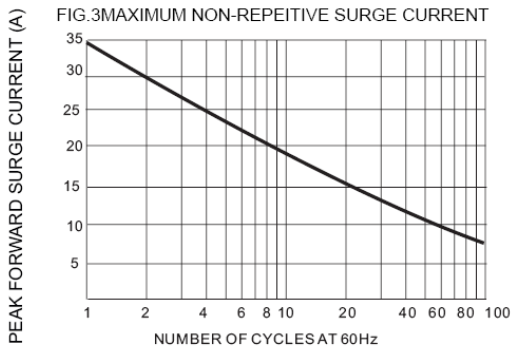
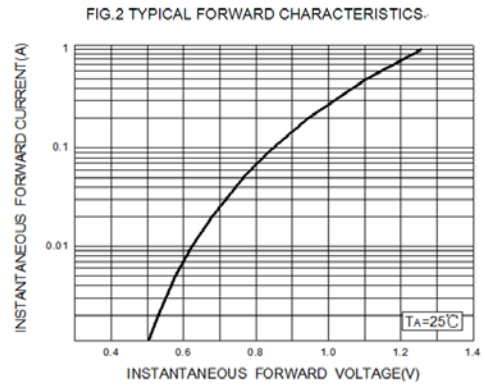
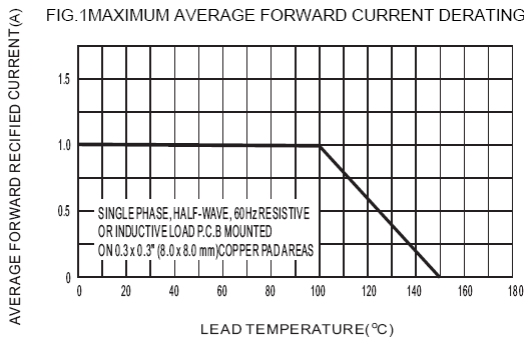
## 热特性 THERMAL CHARACTERISTICS

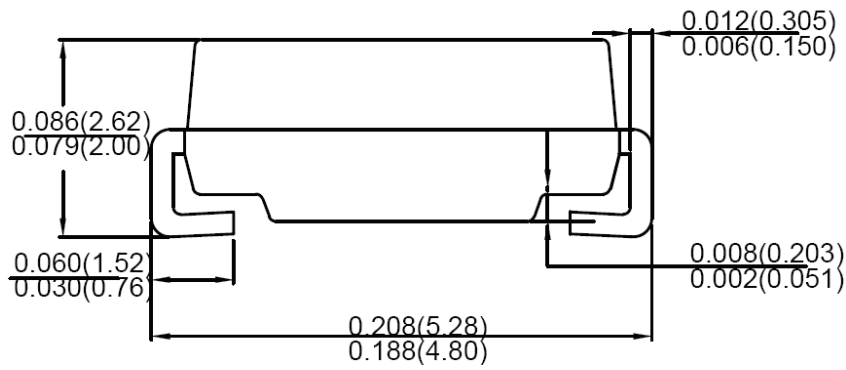
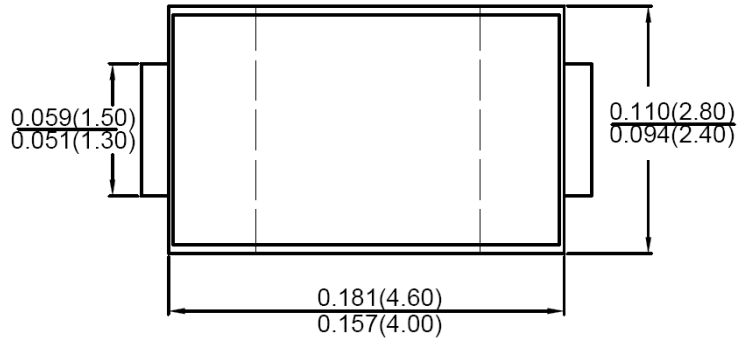
项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
结到环境的热阻 Junction to Ambient Thermal Resistance	$R_{\theta JA}$	85 100	$^{\circ}\text{C}/\text{W}$





特征曲线 ELECTRICAL CHARACTERISTICS (curves)



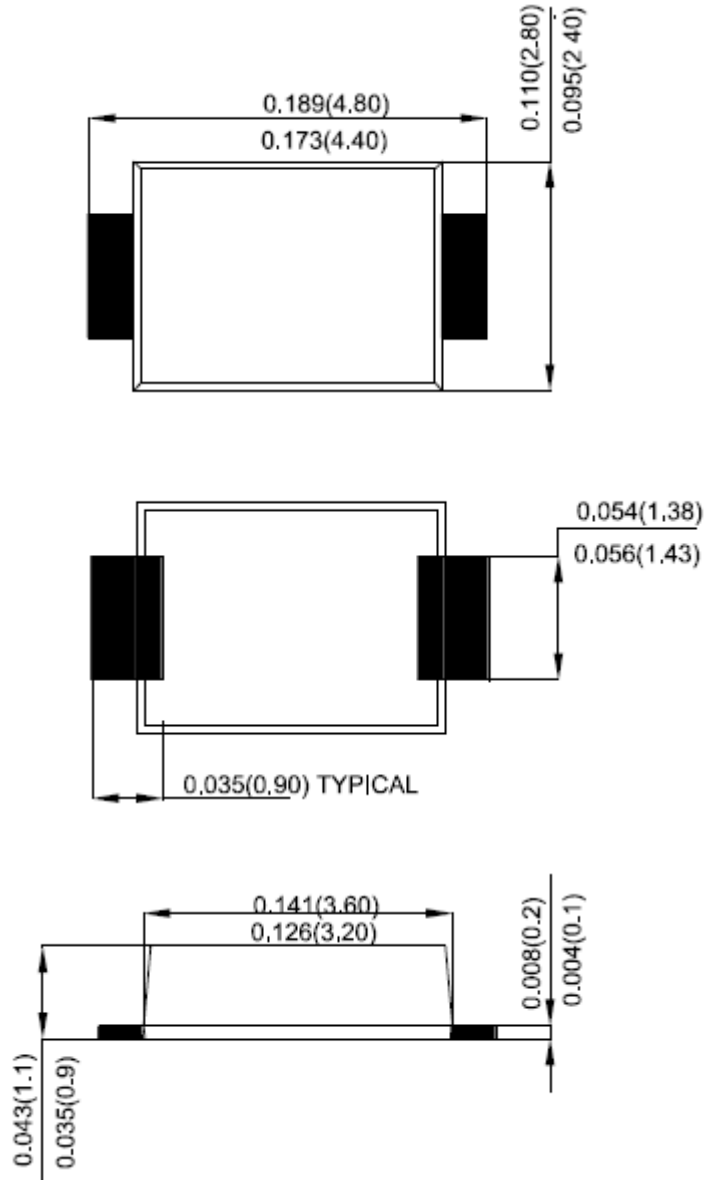
**外形尺寸 PACKAGE MECHANICAL DATA****SMA****Dimensions in inches and(millimeters)**

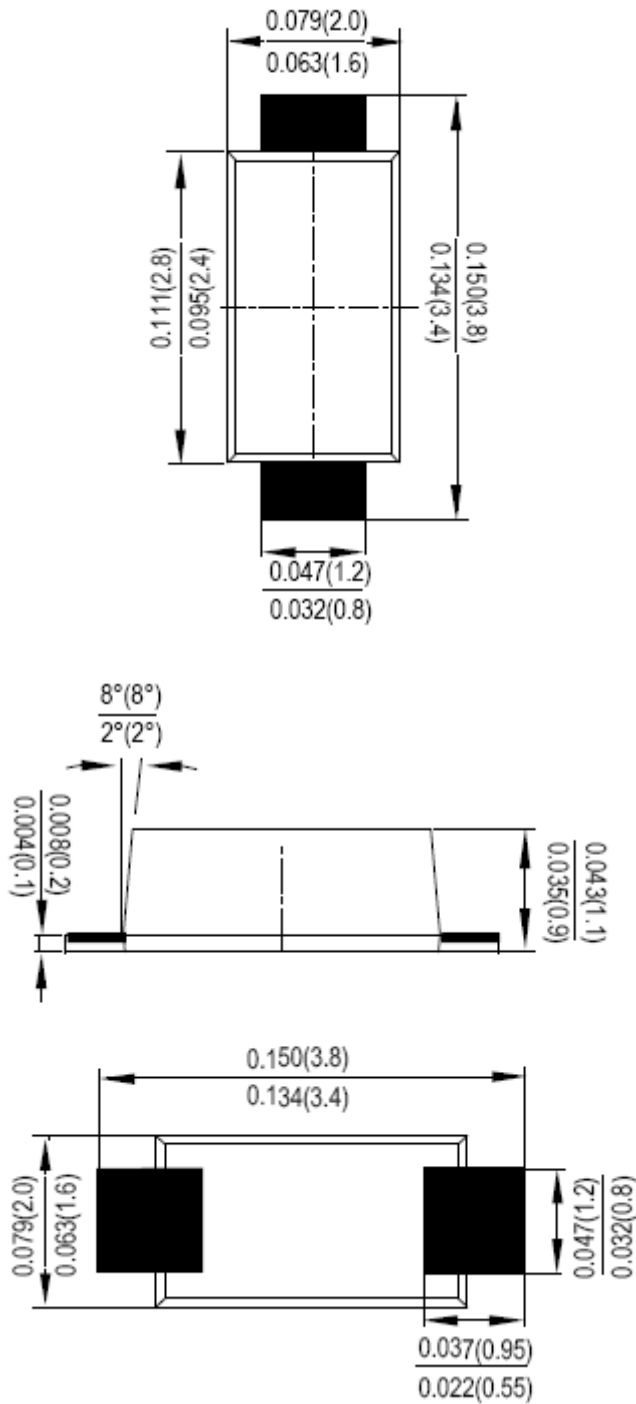


外形尺寸 PACKAGE MECHANICAL DATA

**SMAF**

Dimensions in inches and (millimeters)



**外形尺寸 PACKAGE MECHANICAL DATA**
**SOD123-FL**
**Dimensions in inches and (millimeters)**




# 超快恢复整流二极管 Superfast Recovery Rectifiers

## 注意事项

1. 吉林华微电子股份有限公司的产品销售分为直销和销售代理，无论哪种方式，订货时请与公司核实。
2. 购买时请认清公司商标，如有疑问请与公司本部联系。
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

## NOTE

1. Jilin Sino-microelectronics co., Ltd sales its product either through direct sales or sales agent , thus, for customers, when ordering , please check with our company.
2. We strongly recommend customers check carefully on the trademark when buying our product, if there is any question, please don't be hesitate to contact us.
3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
4. Jilin Sino-microelectronics co., Ltd reserves the right to make changes in this specification sheet and is subject to change without prior notice.

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

日期 Date	旧版本 Last Rev.	新版本 New Rev.	修订内容 Description of Changes
2016-1-11	201511A	201601B	<ol style="list-style-type: none"> <li>1. Revised Junction to Ambient Thermal Resistance Spec</li> <li>2. Revised packaging</li> <li>3. English and Chinese annotation</li> </ol>

