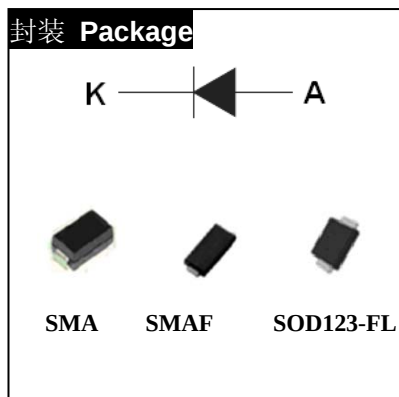




US1M

主要参数 MAIN CHARACTERISTICS

$I_{F(AV)}$	1A
V_{RRM}	1000 V
T_j	150℃
$V_{F(max)}$	1.7V



产品特性

- 表面贴装
- 易于安装
- 玻璃钝化芯片
- 低功耗，高效率

FEATURES

- For surface mount applications
- Easy pick and place
- Glass passivated junction
- Low power loss, 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
US1M-X-A	US1M	SMA	否 NO	卷盘 Reel	62mg(approx.)
US1M-XF-A	US1M	SMAF	否 NO	卷盘 Reel	27mg(approx.)
US1M-O1F-A	U1M	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}	1000	V
最大均方根电压 Maximum RMS Voltage	V_{RMS}	700	V
最大直流阻断电压 Maximum DC Blocking Voltage	V_{DC}	1000	V
正向平均整流电流 Average Rectified Forward Current $T_A=75^{\circ}\text{C}$	$I_{F(AV)}$	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}	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 $T_A = 25^{\circ}\text{C}$ $T_A = 125^{\circ}\text{C}$	I_R	5.0 200	μA
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}	75	ns
结电容 Typical Junction Capacitance $V_R = 4.0 \text{ V}, f = 1.0 \text{ MHz}$	C_J	17	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	SMA/ SMAF SOD123-FL $R_{\theta JA}$	85 100	$^{\circ}\text{C}/\text{W}$



特征曲线 ELECTRICAL CHARACTERISTICS (curves)

FIG.1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

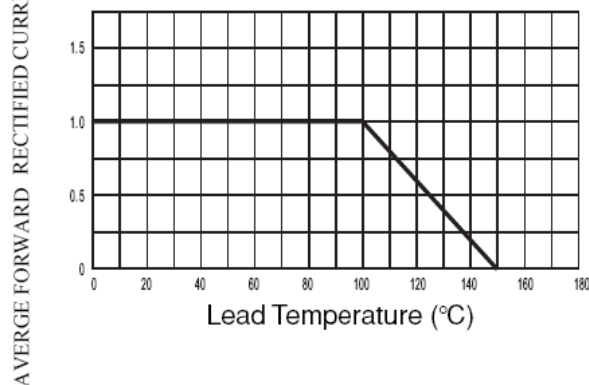


FIG.2 TYPICAL FORWARD CHARACTERISTICS

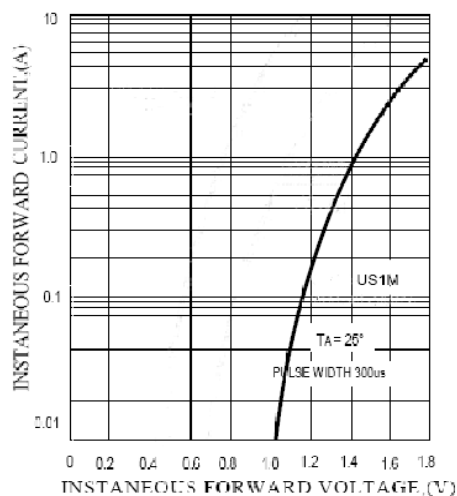


FIG.3 MAXIMUM NON-REPEITIVE SURGE CURRENT

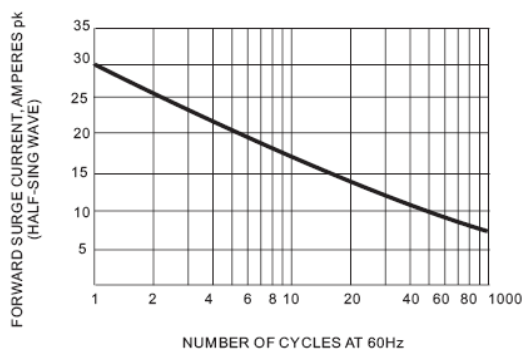


FIG.4 TYPICAL JUNCTION CAPACITANCE

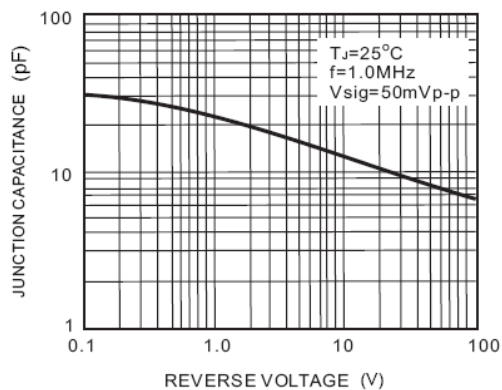
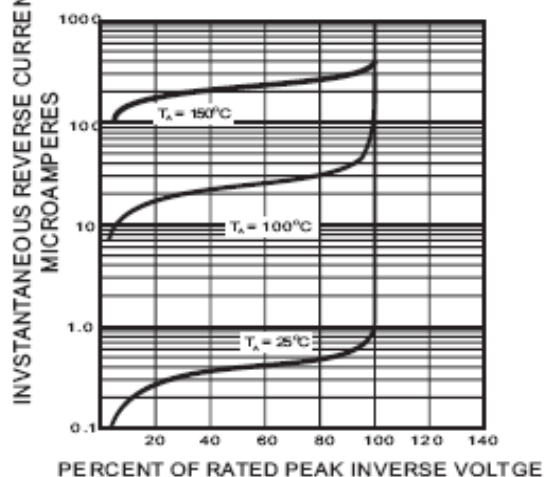


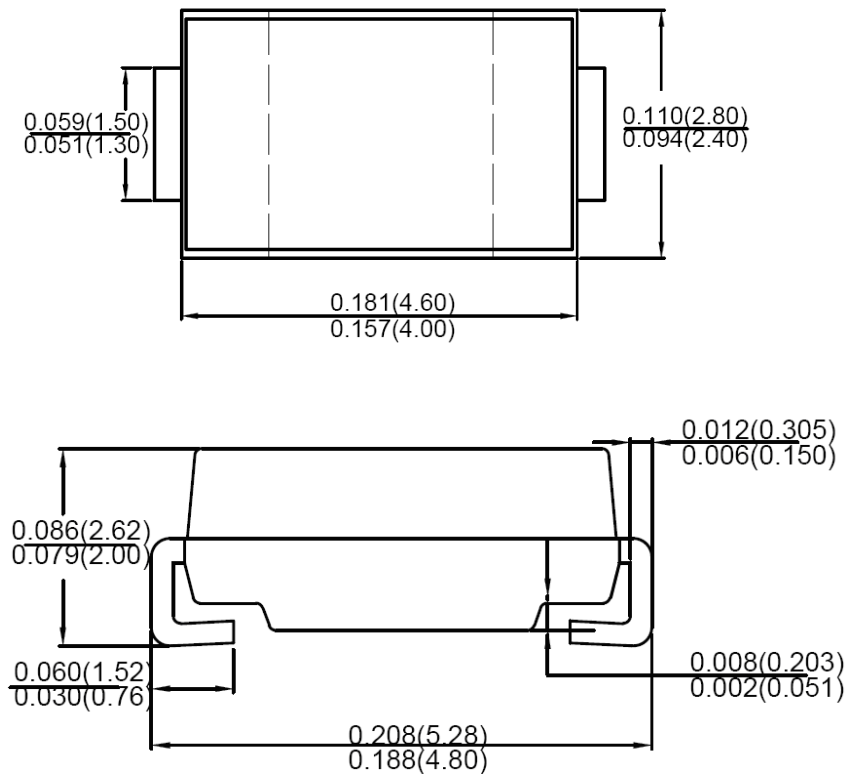
FIG.5 TYPICAL REVERSE CHARACTERISTICS





SMA

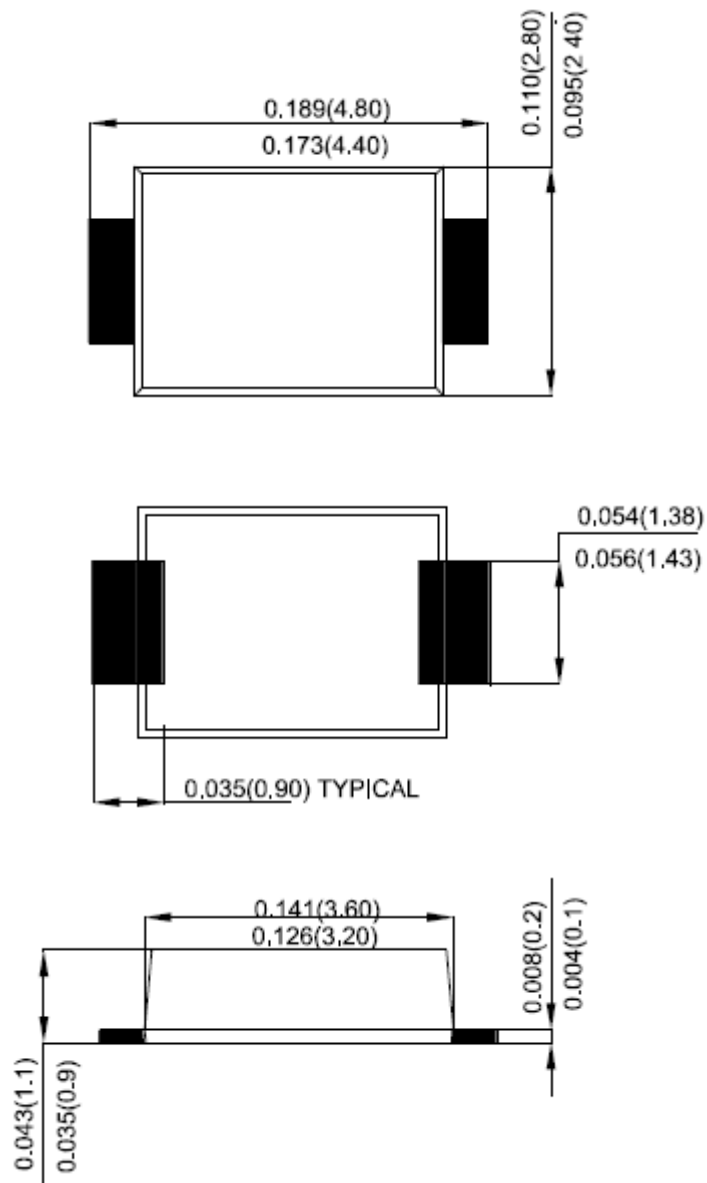
Dimensions in inches and (millimeters)





SMAF

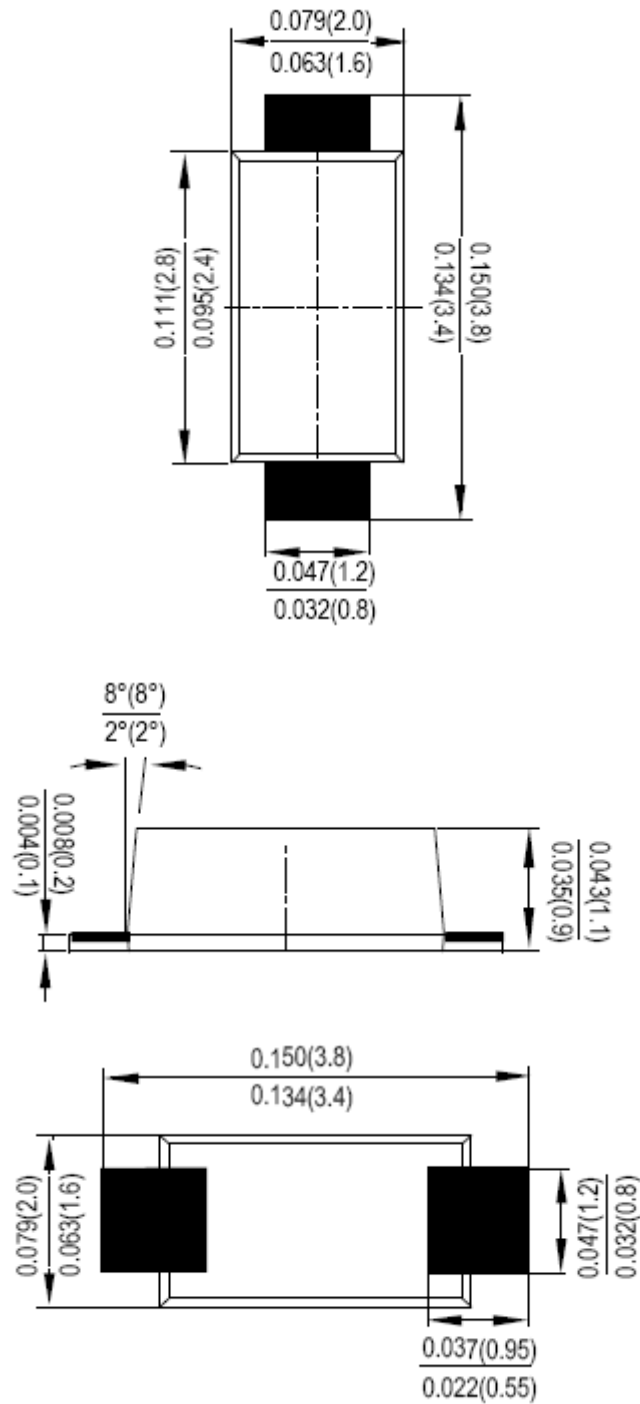
Dimensions in inches and (millimeters)





SOD123-FL

Dimensions in inches and (millimeters)





特快恢复整流二极管 Ultrafast Recovery Rectifiers

注意事项

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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



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