

**Part No./型号: SIR-548F4TSF-08E-ZR**

<b>样品承认书</b> <b>SPECIFICATION FOR APPROVAL</b>			
<b>客户名称</b> Customer			
<b>送样规格</b> Specification		SIR-548F4TSF-08E-ZR	
<b>送样日期</b> Deliver Date			
<b>基本参数</b> Basic parameters		参见规格书	
<b>特殊要求</b> Special Requirements		无	
<b>拟制</b> Issued	<b>审核</b> Checked	<b>批准</b> Approved	<b>客户承认盖章</b> Customer Approved Signatures
<b>客户意见</b> Customer Feedback:			

**您的宝贵意见是我们进步的源泉! Your advices are our source of progress!**

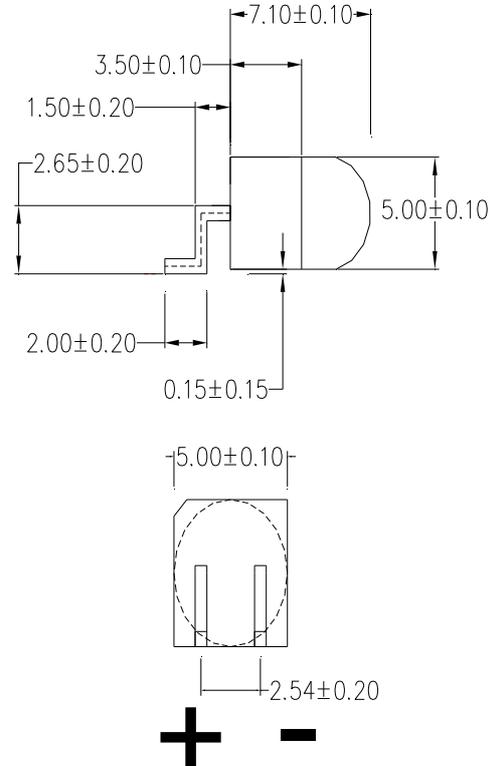
## Part No./型号: SIR-548F4TSF-08E-ZR

### ➤ Features/特征:

- Infrared LED/红外二极管
- High Power output/高功率输出
- Low power consumption/低功耗
- High reliability and long life/  
可靠性高、寿命长
- RoHS compliant/符合 RoHS 标准

### ➤ Descriptions/描述:

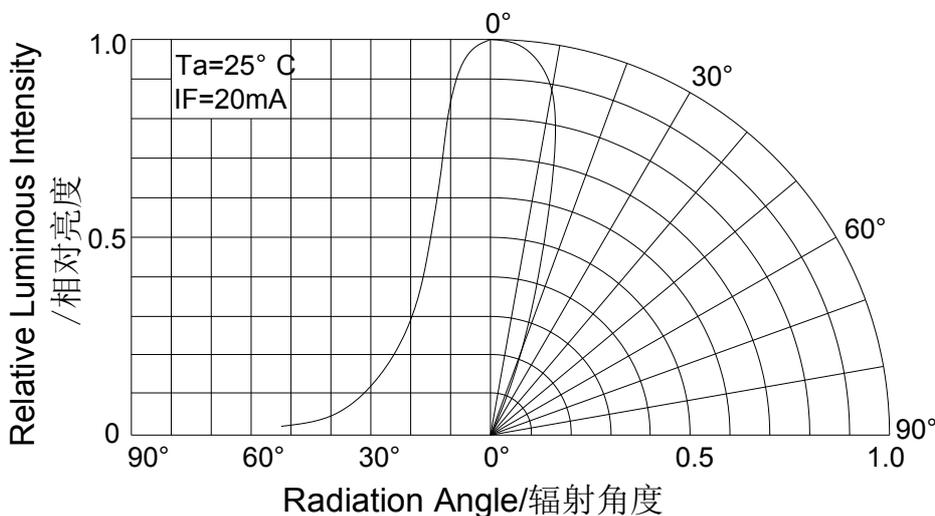
- Die material/芯片材质: AlGaAs
- Emitting Color/发光颜色:  
Infrared Emitting diodes/发射管
- Device Outline/产品外形:  
Special Type/ 特殊形状
- Lens Type/胶体颜色:  
Green Clean / 绿色透明



1. All dimensions are millimeters/单位: mm.
2. Tolerance is  $\pm 0.25$ mm unless otherwise noted/  
没有标注的公差均为  $\pm 0.25$ mm.

### ➤ Directivity/指向特性: (Ta=25°C, IF=50mA)

#### DIRECTIVITY/指向特性



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### ➤ Absolute maximum ratings/极限参数 (Ta = 25°C)

Parameter 参数	Symbol 符号	Test Condition 测试条件	Values 数值		Unit 单位
			Min.	Max.	
Power Dissipation 损耗功率	P <sub>d</sub>	----	----	75	mW
Reverse Voltage 反向电压	V <sub>R</sub>	I <sub>R</sub> =10 μ A	5	----	V
Pulse Current 正向峰值电流	I <sub>peak</sub>	Duty=0.01mS 1kHz	----	1000	mA
Operating Temperature 工作温度范围	T <sub>opr</sub>	----	-40	+85	°C
Storage Temperature 储存温度范围	T <sub>str</sub>	----	-40	+100	°C
Soldering Temperature 焊接温度	T <sub>sd</sub>	t ≤ 5sec	----	260	°C

### ➤ Electrical and optical characteristics/光电参数 (Ta = 25°C)

Parameter 参数	Symbol 符号	Test Condition 测试条件	Values 数值			Unit 单位
			Min.	Typ.	Max.	
Forward Voltage 正向电压	V <sub>F</sub>	I <sub>F</sub> = 50mA	0.8	1.4	1.7	V
Reverse Current 反向电流	I <sub>R</sub>	V <sub>R</sub> = 5V	----	----	10	μ A
Peak Wavelength 峰值波长	λ <sub>p</sub>	I <sub>F</sub> = 50mA	----	940	----	nm
Spectral Line half-width 半波长宽度	Δ λ	I <sub>F</sub> = 50mA	----	50	----	nm
Radiant Intensity 发射强度	I <sub>e</sub>	I <sub>F</sub> = 50mA	----	68	----	mW/sr
Viewing Angle 指向角度	2 θ 1/2	I <sub>F</sub> = 50mA	----	30	----	deg.

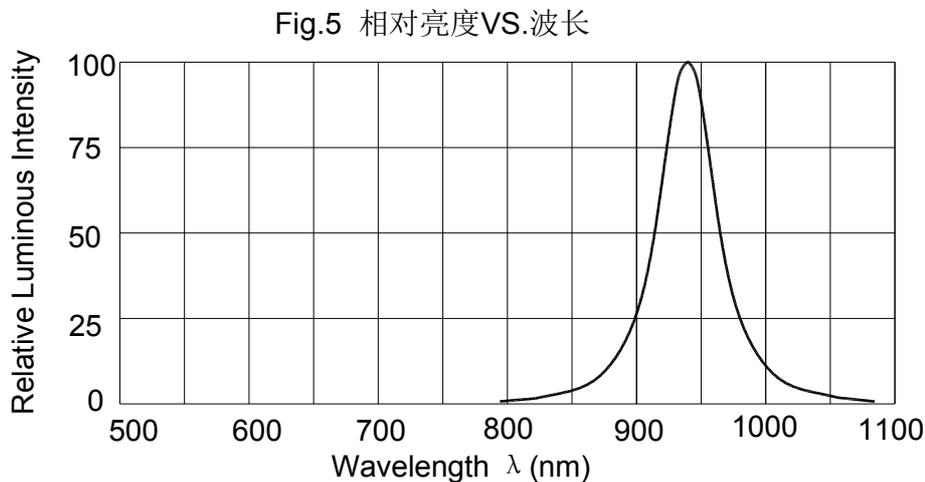
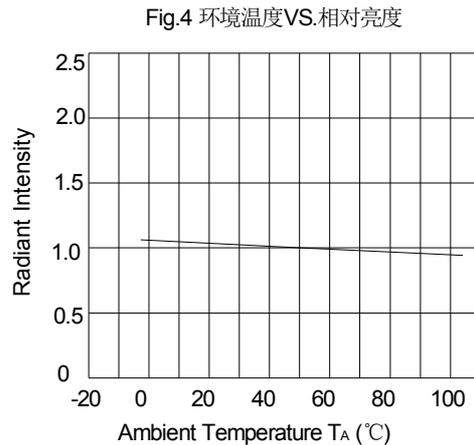
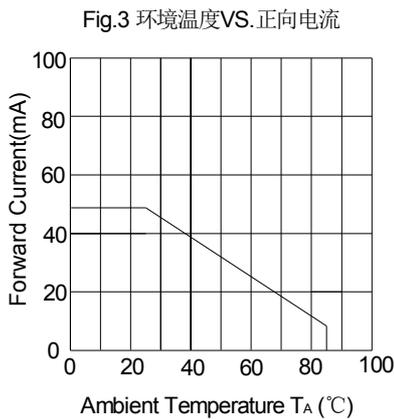
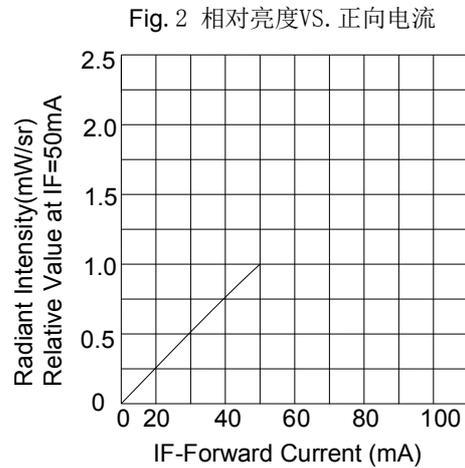
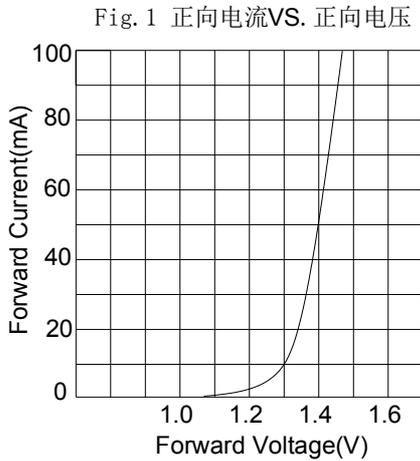
### ➤ Reverse Light Current Bins/光电流等级分档 (Ta = 25°C)

Min	48	68
Max	68	96

**Notes/备注:** Unit/单位:mW/Sr, Rank error/分档误差: I<sub>e</sub>: ± 15%

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➤ **Typical electrical/optical characteristic curves/光电特性曲线:**



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### ➤ Label Form Specification/标签格式规范



No: 产品品号	IV: 光通量/发光强度
P/N: 产品品名	VF: 电压档位
IV code: 光通量/发光强度代码	λ/Tc: 波长/色系档位
VF code: 电压代码	Q'ty: 包装数量
λ/Tc code: 波长/色系代码	Date: 标签打印日期
IF: 测试电流	QC: 检验合格章
Lot No: 生产批号	
Cus No: 客户料号	

### ➤ Cleaning/清洗

1. Do not clean LEDs with water, Alcohol are recommended solvents for cleaning. When using other solvents, it should be confirmed beforehand whether the solvents will dissolve the resin or not.

不要用水清洗，推荐使用酒精清洗，当使用其他溶剂清洗时应事先确认该溶剂是否溶解树脂。

2. LEDs may be damaged by ultrasonic-washed. Before cleaning, a pre-test should be done to confirm whether any damage to the LEDs will occur.

LED有可能在超声波清洗过程中被破坏。为了保证安全，在清洗前，请先确认。

### ➤ Storage/保存

1. Environmental temperature: -40°C---100°C, Recommended: -20°C---50°C

环境温度：-40°C---100°C，推荐使用-20°C---50°C；

2. Environmental humidity: 30%---70%, Recommended: 40%---60%

环境湿度：30%---70%，推荐使用40%---60%；

**Part No./型号: SIR-548F4TSF-08E-ZR****➤ Static Electricity/静电**

1. Static Electricity or power surge will damage the LED.

It is recommended that a wrist band or an anti-electrostatic glove be used when handling the LEDs.

静电或激增电压将损害 LED。

建议使用发光二极管时佩戴手腕带或防静电手套。

2. All production machinery and test instruments must be electrically grounded.

所有的生产机器和检测仪器，必须接地。

3. Maintain a humidity level of 50% or higher in production areas.

生产现场湿度必须保持在50%或者更高。

4. Use anti-static packaging for transport and storage.

使用防静电包装，运输和储存。

**➤ Notes/备注**

1. This datasheet will be update regularly, if there comes out any changes, pls confirmed by the latest datasheet.

以上规格书会定期进行更新，如有改动,以最新规格书为准。

2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. SUNPU assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.

在使用本产品时，请注意参考规格书中的最大额定值和使用说明，如果没有遵照产品规格书中的最大额定值以及使用说明而产生的不良后果，不在升谱承诺范围之内。