

Shenzhen Jieke Optoelectronic Co. Ltd.

客户	2名称:	
物料	斗编码:	
产品	品型号:	3528红外850-CU亮银
版本	编号:	
	甘日・	2024-06-06

产品描述:

■ 贴片3528红外 超亮 缺口为负

■ 胶体颜色:白色透明



	承 认 签 章		
编制	审核	核准	米川川里水

客户确认						
确认	审核	核准				

地址:广东省深圳市宝安区福永白石厦日富路42号2、3楼 电话:0755-29646149 传真:0755-27570257

1 of 9





Shenzhen Jieke Optoelectronic Co. Ltd.



Features

- _3.5mmX2.8mm SMT LED, 1.9mm THICKNESS.
- LOW POWER CONSUMPTION.
- _WIDE VIEWING ANGLE.
- _IDEAL FOR BACKLIGHT AND INDICATOR.
- _VARIOUS COLORS AND LENS TYPES AVAILABLE.
- _PACKAGE: 2000PCS / REEL.
- _RoHS COMPLIANT.

Description

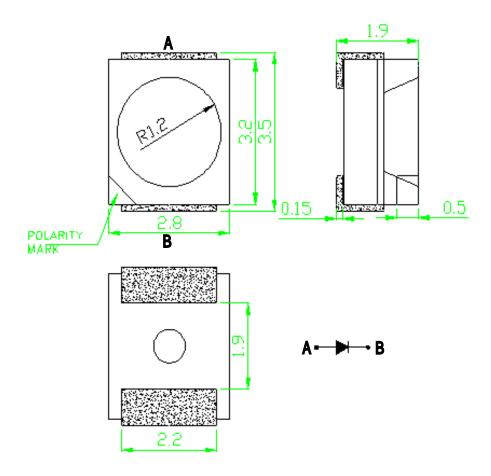
The RED source color devices are made with GaAlAs on Sapphire Light Emitting Diode.

Static electricity and surge damage the LEDS.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.



Shenzhen Jieke Optoelectronic Co. Ltd.

Selection Guide

Part No.	Dice Lens Type			(mcd) 20mA	Viewing Angle
			Min.	Тур.	2 θ 1/2
3528红外850-亮银	RED	WATER CLEAR	3.0	4.0	120

Note:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	RED	845	850	855	nm	IF=20mA
λD	Dominant Wavelength	RED				nm	IF=20mA
Δλ1/2	Spectral Line Half-width	RED		25		nm	IF=20mA
С	Capacitance	RED		105		pF	VF=0V;f=1MHz
VF	Forward Voltage	RED		1.3	1.8	٧	IF=20mA
IR	Reverse Curren	RED			2	uA	VR = 7V

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm

2. Luminous Intensity: +/-15%

3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters

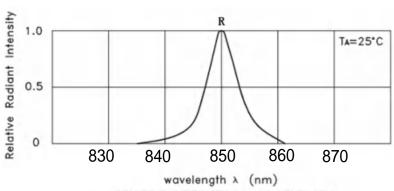
Absolute Maximum Ratings at TA=25°C

Nate Maximum Ratings at 1A-20 0					
Parameter	RED	Units			
Power dissipation	75	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	80	mA			
Reverse Voltage	5	V			
Operating/Storage Temperature	-40°C To +85°C	·			

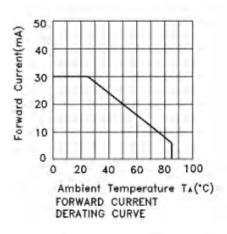
Note:

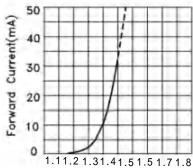
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

Shenzhen Jieke Optoelectronic Co. Ltd.

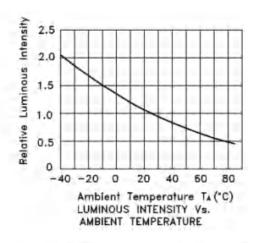


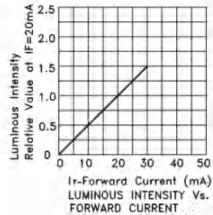
RELATIVE INTENSITY Vs. WAVELENGTH

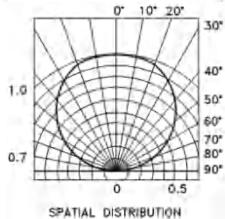




Forward Voltage(V)
FORWARD CURRENT Vs.
FORWARD VOLTAGE









Shenzhen Jieke Optoelectronic Co. Ltd.

可靠性 RELIABILITY

测试项目及结果 Test Items and Results

1/3 12/1		est items and Kesu	115	持续时	取样	接收水准(不合格
序号	试验项目	参考标准	试验条件	间	数	数量/抽样总数)
1	温度循环	JEITA ED-4701	-40℃~25℃~100℃~ 25℃ 30 分钟 5 分钟 30 分 钟 5 分钟	循环 100 回 合	50	0/50
2	冷热冲击	MIL-STD-202G	-40℃~100℃ 15 分钟 15 分钟	循环 500 回 合	50	0/50
3	高温储存	JEITA ED-4701 200 201	Ta=100°C	1000 小 时	50	0/50
4	低温储存	JEITA ED-4701 200 201	T _a =-40°C	1000 小 时	50	0/50
5	常温寿命		Ta=25±5°C	1000 小 时	50	0/50
	试验		I _F =20mA			
6	高温高湿		Ta=60°C RH=85%	1000 小 时	50	0/50
	寿命试验		$I_F=20mA$			
7	可焊性	JEITA ED-4701	T _{sol} =235℃±5℃,5 秒	焊接一 次,5 秒	10	0/10
	(回流焊)	300 303	使用助焊剂			
8	耐焊性 (回流焊)	300 301	Tsol=260℃,10 秒 预处理: 35℃ 95%RH 96 小时	焊接二 次,每次 10 秒	10	0/10
备准	以上试验项目如与客户试验要求存在差异的或者特殊客户特殊要求的可根据实际情况按照客户的要 求进行试作,客户未要求的按我司试验标准试作,不同产品使用不同电流进行测试					

│ 备准 │ 求进行试作,客户未要求的按我司试验标准试作.不同产品使用不同电流进行测试





Shenzhen Jieke Optoelectronic Co. Ltd.

5.注意事项 Cautions

(1) 焊接条件 Soldering Conditions

本产品最多只可回焊两次,且在首次回焊后须冷却至室温之后方可进行第二次回焊.

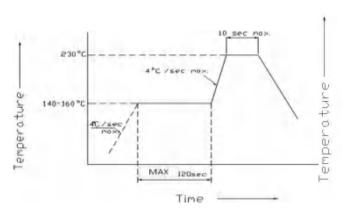
Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and Second soldering process.

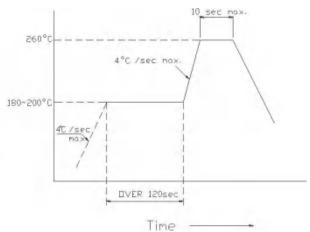
推荐焊接条件(Recommended soldering conditions)

ញាស្វ	充焊接 Reflow Solde	手工焊接			
预热温度 Pre-heat	有铅 Lead Solder	无铅 Lead-free Solder	温度 Temperature 焊接时间 Soldering	350° C Max. 3 sec. Max.	
预热时间 Pre-heat time 峰	140 160°C 120 sec. Max. 230°C Max. 10 sec. Max. 参考下图	180 200° C 120 sec. Max. 260° C Max. 10 sec. Max. 参考下图	time	(one time	

有铅回焊 (Lead Solder)

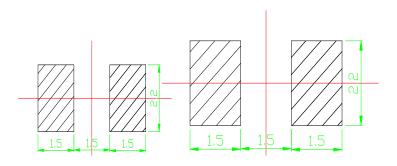
无铅回焊 (Lead-Free Solder)





Recommended Soldering Pattern

(Units:mm)





Shenzhen Jieke Optoelectronic Co. Ltd.

静电 Static Electricity

触摸 LED 时,推荐使用防静电手腕带或防静电手套.

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

所有装置、设备、机器均应接地.

All devices, equipment and machinery must be properly grounded.

静电损坏的 LED 会显示出异常特征:正向电压变低或在低电流时死灯.标准: IF=0.5mA 时, VF>

2.0V Damaged LEDs will show some unusual characteristics such as the forward voltage becomes

lower, or the LEDs do not light at the low current. Criteria : (VF > 2.0V at IF=0.5mA)

(3)防潮包装 Moisture Proof Package

使用防潮包装

It is recommended that moisture proof package be used.

(4)使用注意事项

Cautions:

4.1.在开包装之前,请先检查包装袋有无漏气,如果有漏气现象,请退回我司重新烘烤除湿包装后再使用。

Please check if there is air leak before opening the package, if so, please return the goods back to take drying process for later using.

4.2 抽真空包装材料未超过 15 天可正常使用,包装袋开启后,产品必须:

Products can be used within 15days after packaging, after that, they must be:

4.2.1 在 24hrs 内未焊接完毕。

Soldered within 24 hrs

4.2.2 要在规定环境条件中使用: 温度:30℃以内 湿度:60%RH 以下

Used in the condition: 30°C within and 60%RH below

4.2.3 存储低于 30%RH。

Stored in 30%RH for moisture below.

4.3.抽真空包装材料超过 15 天(含)以上未使用,再使用时需重新拆铝箔袋取出烘烤 85℃/6H 除湿后才可使 用。

Products cannot be used for and over 15days after being packaged unless opening the package and take drying our process in 85°C/6H.

4.4.抽真空包装材料超过 60 天(含)以上未使用,请退回我司重新烘烤除湿包装后再使用。

Products not be used for or over 60days after being packaged please return back to take drying out and packaging process for forward using.

4.5.材料拆装后使用时间超过 24H 未用完, 需烘烤 85°C/6H 除湿后才可使用。

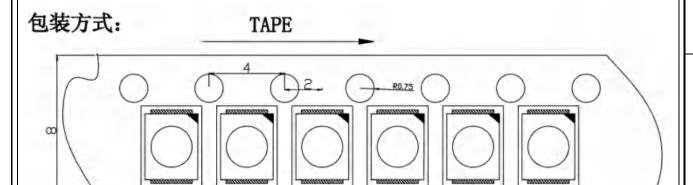
Products not be used after opening the package need to be dried out for 85°C/6H



Shenzhen Jieke Optoelectronic Co. Ltd.

包装 PACKAGING

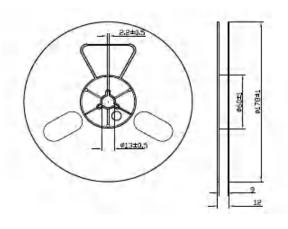
LEDS 在装带之后纸箱包装. The LEDs are packed in cardboard boxes after taping.



Package: 2000PCS/ree1

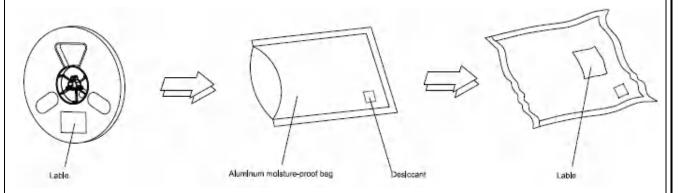
Reel Dimensions

卷轴尺寸





Moisture Resistant Packaging 防潮带包装



Note:The tolerances unless mentioned is ±0.1mm,Unit:mm 注:标注公差为±0.1MM,单位:MM