



# 承認書

## Specification For Approval

Customer: (客戶)

\_\_\_\_\_

Description: (產品描述)

SMD3030燈珠1W藍光

\_\_\_\_\_

Part number: (產品型號)

TJ-S3030UGEW6TLC6B-A5

\_\_\_\_\_

Date: (日期)

\_\_\_\_\_

Approved By: (客戶承認)

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Prepared By: (我司承認)

Approval	Check	Design	Sales

核准

審核

製作

業務

Customer Service Hotline: **400-676-8616**

TEL: 0769-8662 5999    0769-8200 2226

E-MAIL : dg@togialed.com

FAX: 0769-8200 2227

WEB: www.togialed.com

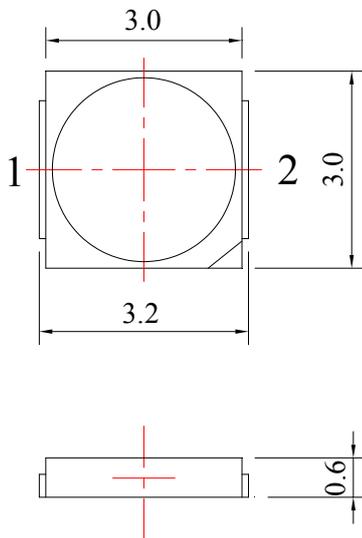
※产品特征 Features

- 1.外型尺寸: 3.0×3.0×0.6mm  
Outline Package: 3.0×3.0×0.6mm(Top View White LED)
- 2.发光颜色: 蓝光  
EmittedColor:Blue
- 3.封装胶水: 硅胶  
Encapsulating Resin: Silicon Resin
- 4.适用于所有表面贴装技术组装生产  
Suitable for all SMT assembly methods
- 5.完全符合 ROHS 指令  
Comply with RoHS

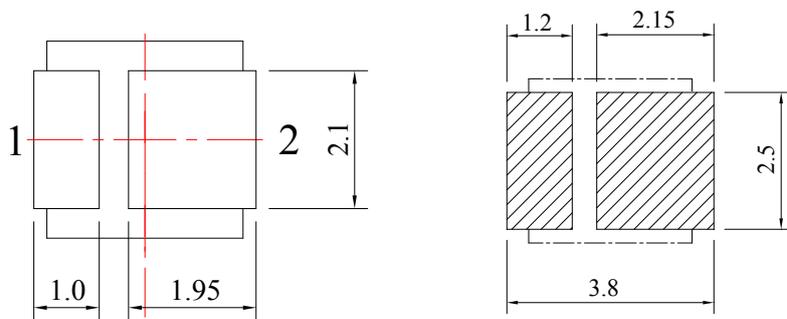
※产品应用 Applications

1. 室内室外显示屏 光学指示  
Indoor and outdoor displays
2. 背光  
Backlighting
3. 汽车内部照明  
Interior automotive lighting
4. 信号照明  
Signal and symbol luminaire

※外型尺寸图 Package Outline Dimensions



焊盘设计 PAD Lay Out PCB



1. All dimensions are in millimeters (inches);

单位: 毫米 (英寸)

2. Tolerances are ±0.2mm (0.008inch) unless otherwise noted.

未标公差处公差为 0.2mm(0.008 英寸)



ATTENTION  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
SENSITIVE DEVICES

**最大绝对额定值 Absolute maximum ratings at Ta=25°C**

参数名称 Parameter	符号 Symbol	数值 Value	单位 Unit
功率耗损 Powerdissipation	PD	1080	mW
正向电流 Forward current	I <sub>F</sub>	300	mA
脉冲电流[1] Peak pulsing current	I <sub>FP</sub>	500	mA
最大反向电压 [2] Reverse Voltage	V <sub>R</sub>	5	V
工作温度范围 Operatingtemperaturerange	Topr	-20~80	°C
贮存温度范围 Storagetemperaturerange	Tstg	-30~80	°C
最大节点温度 Junction Temperature	T <sub>J</sub>	105	°C
回焊条件 ReflowSolderingCondition	T <sub>sid</sub>	260/5sMax.	°C

[1] 无齐纳时反向电压项目有效 It is available when without zener on VR

[2] I<sub>FP</sub> 条件: 脉冲持续时间 ≤ 10msec, 占空因素 ≤ 1/10

I<sub>FP</sub> Conditions: Pulse Width ≤ 10msec. and Duty cycle ≤ 1/10

**电光特性 Electrical-optical characteristics at Ta=25°C**

参数名称 Parameter	符号 Symbol	测试条件 Test conditions	Min.	Typ.	Max.	单位 Unit
正向电压 Forward voltage	V <sub>F</sub>	I <sub>F</sub> =300mA	2.8	-	3.6	V
光通量 luminous flux	φ	I <sub>F</sub> =300mA	20	-	30	LM
主波长 Wave Length	d	I <sub>F</sub> =300mA	460	-	470	NM
峰值波长 Peak wave length	ρ	I <sub>F</sub> =300mA	-	455	-	NM
反向电流 Reverse Current	I <sub>R</sub>	V <sub>r</sub> =5V	-	-	30	uA
半功率角 Viewing angle at 50% I <sub>v</sub>	2θ <sub>1/2</sub>	I <sub>F</sub> =300mA	-	140	-	deg

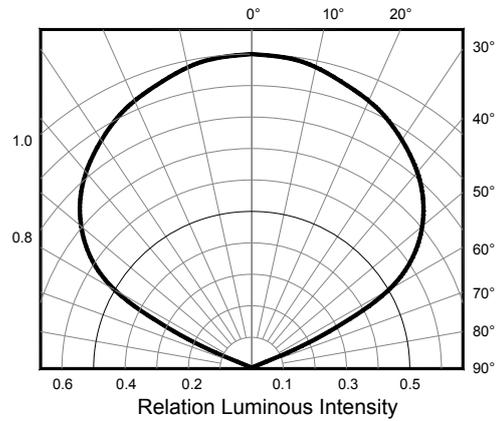
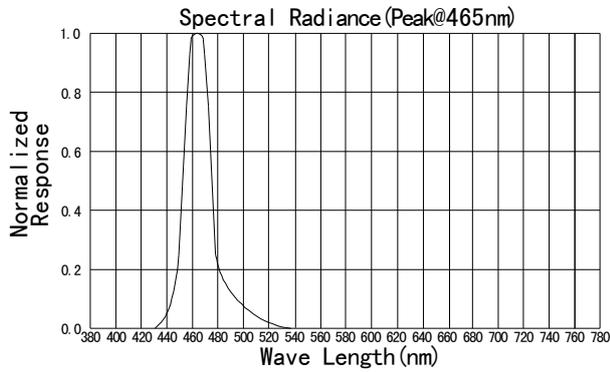
1. Tolerance of luminous flux is ±10%

光通量公差为±10%

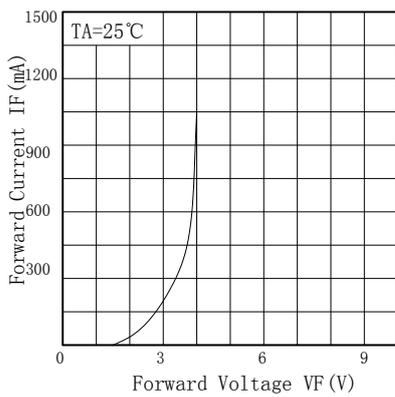
2. Tolerance of forward voltage is ±0.05V

正向电压公差±0.05v

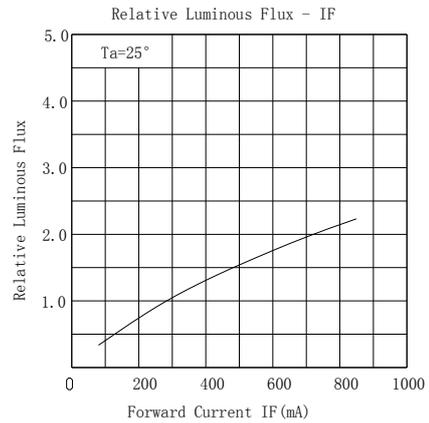
**典型光电参数曲线 Typical Electrical / Optical Characteristics Curves (Ta=25°C)**



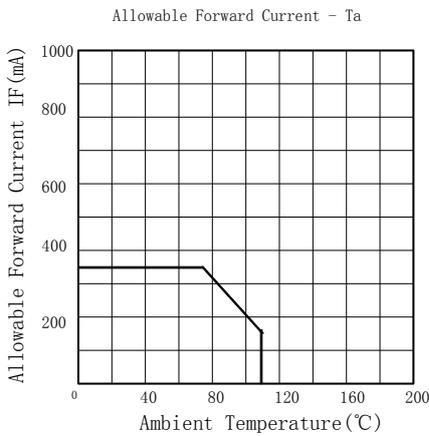
**Radiation Diagram**



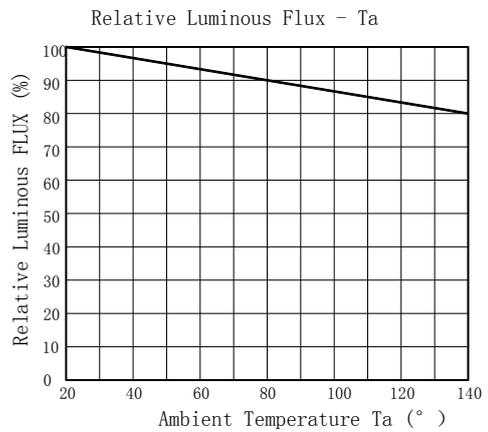
**正向电压与正向电流特性曲线**



**正向电流与相对光强特性曲线**



**环境温度与正向电流特性曲线**



**环境温度与相对光强特性曲线**

Test items and results of reliability 可信赖度测试

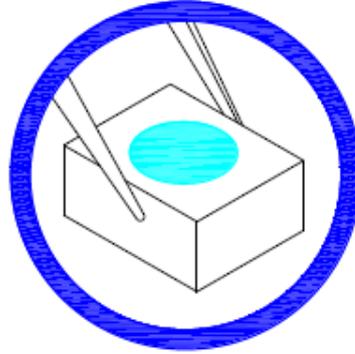
Type	Test Item	Test Conditions	Note	Number of Damaged
Environmental Sequence	Temperature Cycle 高低温循环	-20°C 30min ↑ ↓ 80°C 30min	100 cycle	0/22
	Thermal Shock 冷热冲击	-20°C 15min ↑ ↓ 80°C 15min	100 cycle	0/22
	High Humidity Heat Cycle 高湿度热循环	30°C ↔ 65°C 90%RH 24hrs/1cycle	10 cycle	0/22
	High Temperature Storage 高温贮存	T <sub>a</sub> =80°C	1000 hrs	0/22
	Humidity Heat Storage 高湿度热贮存	T <sub>a</sub> =60°C RH=90%	1000 hrs	0/22
	Low Temperature Storage 低温贮存	T <sub>a</sub> =-30°C	1000 hrs	0/22
Operation Sequence	Life Test 寿命试验	T <sub>a</sub> =25°C I <sub>F</sub> =300mA	1000 hrs	0/22
	High Humidity Heat Life Test 高湿度热寿命试验	50°C RH=90% I <sub>F</sub> =300mA	500 hrs	0/22
	Low Temperature Life Test 低温寿命试验	T <sub>a</sub> =-20°C I <sub>F</sub> =300mA	1000 hrs	0/22



处理预防 Handling precautions

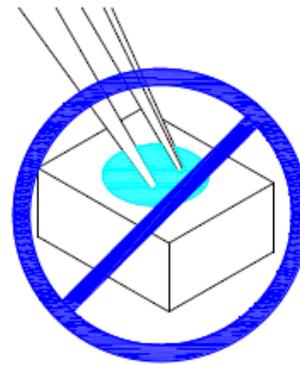
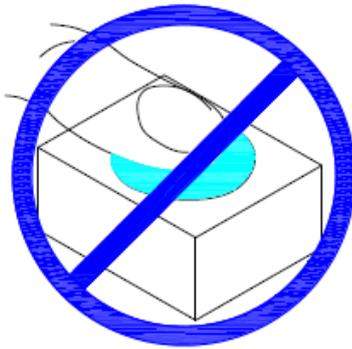
1. 处理元件沿着端面借用镊子或适当工具

Handle the component along the side surface by using forceps or appropriate tools



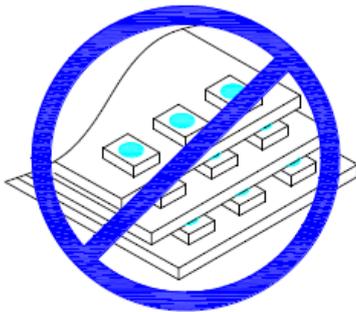
2. 不直接用手或工具接触硅胶或透镜表面，它可能损害内部电子线路

Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry



3. 不将发光二极管叠堆一起，它可能会刮损硅胶或透镜

Do not stack together assembled PCBs containing LEDs. Impact may scratch the silicone lens or damage



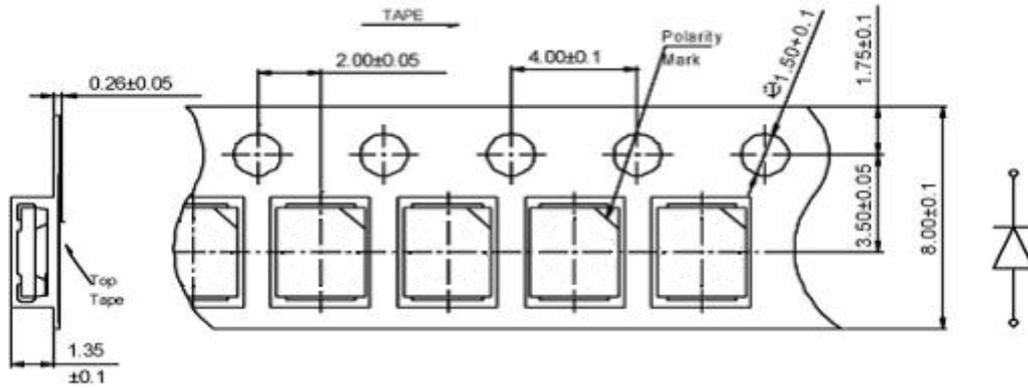
4. 不适合在酸性的环境中使用

Not available in the situation of acidity for PH

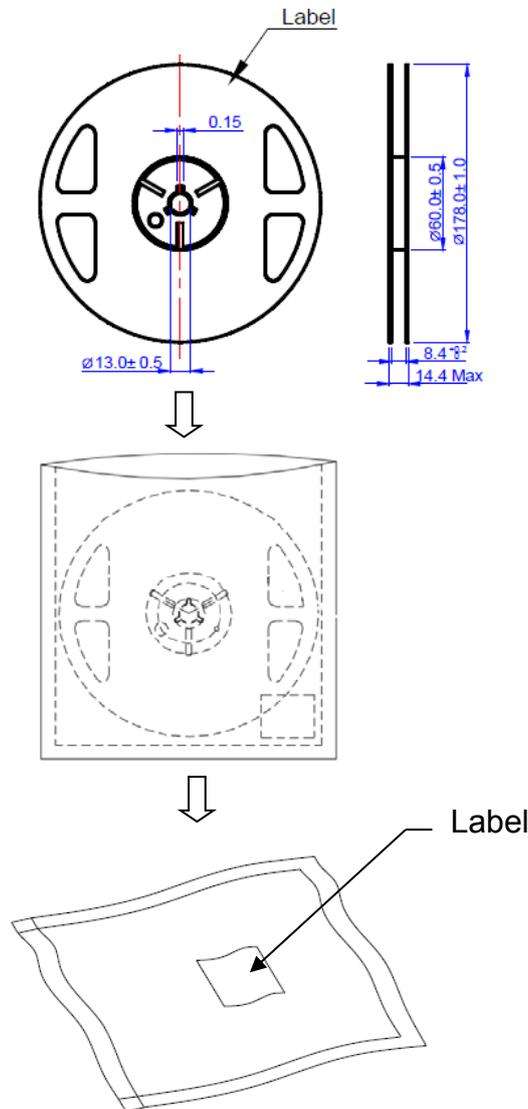


**包装规格 Packaging Specifications**

1. 包装载带尺寸 Package Dimensions of Tape (unit: mm)



2. 卷盘尺寸 Dimensions of Reel (Unit: mm)



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