

RoHS

Specification

规格书

Customer Name:

客户名称:

Customer P/N:

客户品号:

Factory P/N:

公司品号:

HL-PYT-1005S26YC-04

Sending Date:

送样日期:

Client approval 客户审核		Hongli approval 鸿利智汇审核		
Approval 核准	Audit 确认	Audit 确认		Confirma- tion 制作
		Sales department 营销中心	Quality department 品质部	Engineering technol- ogy centre 工程技术中心
☐ Qualified 接受 ☐ Disqualified 不接受		DATE: 日期:		

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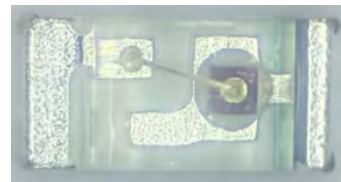
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HL-PYT-1005S26YC-04

Features (特征)

- Extremely wide viewing angle. (宽的发光角度)
- Suitable for all SMT assembly and solder process. (适用于所有的SMT组装和焊接工艺)
- Available on tape and reel. (适用于载带及卷轴)
- Moisture sensitivity level: Level 3. (防潮等级 Level 3)
- Package: 4000pcs/reel. (包装每卷4000PCS)
- RoHS compliant. (RoHS 认证)



Description (描述)

The Yellow source color devices are made with AlGaInP on Substrate Light Emitting Diode

黄光LED由AlGaInP四种元素芯片激发而成

After the product life cycle for recycling

产品生命周期后进行回收处理



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

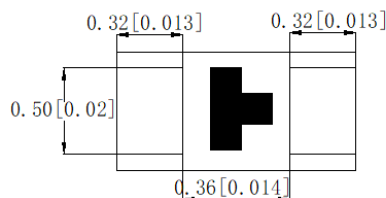
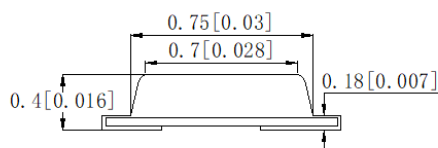
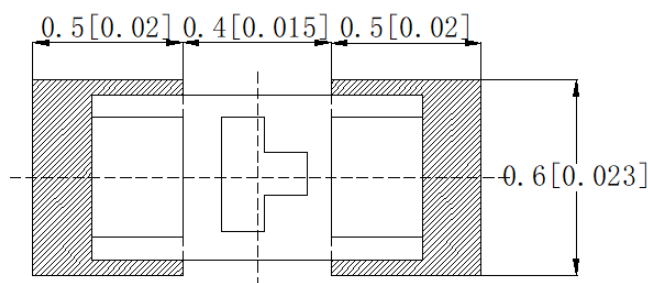
注意：操作时应注意静电敏感
释放设备装置

Package Dimensions (封装尺寸)

Applications (应用)

- Optical indicator (光学指示)
- Backlight for LCD, switch and Symbol, display
(LCD背光、转换器, 开关和标志, 显示器等)
- General use (一般应用)

Recommended Soldering Pattern (建议焊盘尺寸图)



1+ ————> 2-

Notes: (备注)

- Mark the size of the unit is mm. marked in brackets (标注尺寸单位为毫米, 括号内标注为英寸)
- All dimensions allow tolerance $\pm 0.1\text{mm}$ (所有尺寸允许公差 $\pm 0.1\text{mm}$)

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Selection Guide (选择指南)

Part No. 型号	Dice	Lens Type 胶体类型	Luminous intensity (mcd) 光强@ 5mA		Viewing Angle 角度
			Min	Typ	2θ1/2
HL-PYT-1005S26YC-04	AlGaInP)	Water Clear	35	50	130°

Note:(备注)

1. The 2θ1/2 measurement error ± 10 degrees(角度测试误差为 $\pm 10^\circ$)
2. the above luminous intensity measurement allowance tolerance $\pm 10\%$.
上述发光强度的测试允许公差为 $\pm 10\%$

Electrical / Optical Characteristics at Ta=25°C 电性与光学特性

Parameter (参数)	Symbol (符号)	Min. (最小)	Typ. (平均)	Max. (最大)	Units (单位)	Test Conditions 测试条件
Forward Voltage 正向电压	V _F	1.7	--	2.3	V	I _F =5mA
Reverse Current 反向电流	I _R	--	--	10	μA	V _R = 5V
Dominate Wavelength 主波长	λ _d	586	--	595	nm	I _F =5mA

Absolute Maximum Ratings at Ta=25°C 绝对最大额定值

Parameter (参数)	Symbol (符号)	Rating (值)	Units (单位)
Power Dissipation (功耗)	P _d	46	mW
Forward Current (正向电流)	I _F	20	mA
Peak Pulse Current [1] (峰值脉冲电流)	I _{FP}	100	mA
Reverse Voltage (反向电压)	V _R	5	V
Electrostatic Discharge (HBM) (静电)	ESD	2000	V
Operating Temperature (操作温度)	T _{opr}	-40 ~ +85	°C
Storage Temperature (保存温度)	T _{stg}	-40 ~ +100	°C

Note: (备注)

1. 1/10 Duty cycle, 0.1ms pulse width. (脉宽0.1ms, 周期1/10)
2. The above forward voltage measurement allowance tolerance is $\pm 0.1V$. (以上所示电压测量误差 $\pm 0.1V$)
3. The above dominate wavelength measurement allowance tolerance is $\pm 1nm$. (以上所示波长测量误差 $\pm 1nm$)

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Bin Range of Luminous Intensity (亮度分档)

Luminous Intensity (mcd) 光强	
Code 代码	Range 范围
D	35-50
E	50-70
F	70-90

Bin Range of Forward Voltage (电压分档)

Forward Voltage (V) 电压			
Code 代码	Range 范围	Code 代码	Range 范围
J	1.7-1.8	M	2.0-2.1
K	1.8-1.9	N	2.1-2.2
L	1.9-2.0	O	2.2-2.3

Bin Range of Dominate Wavelength (主波长分档)

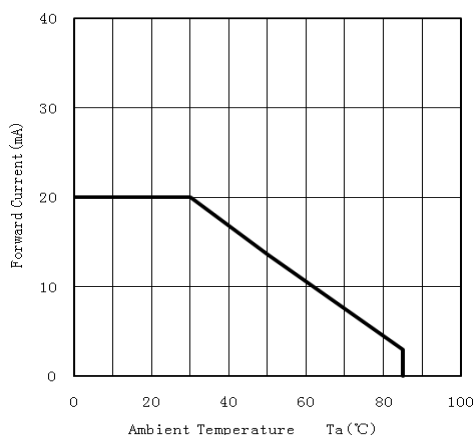
Dominate Wavelength (nm) 主波长	
Code 代码	Range 范围
C	586-589
D	589-592
E	592-595

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Typical optical characteristics curves 典型光学特性曲线

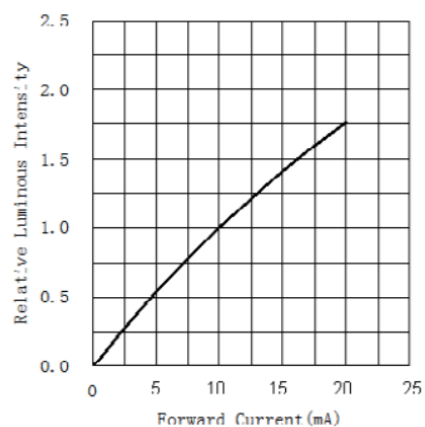
Ambient Temperature vs. Forward Current

环境温度与正向电流特性曲线



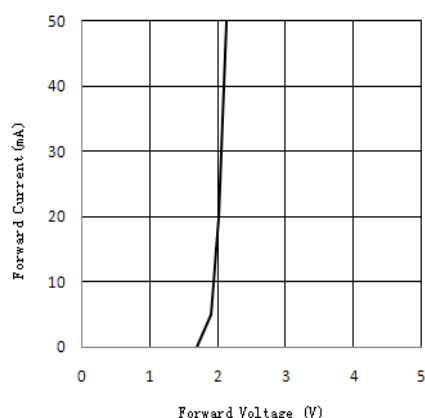
Forward Current VS. Relative Intensity

正向电流与相对光强特性曲线



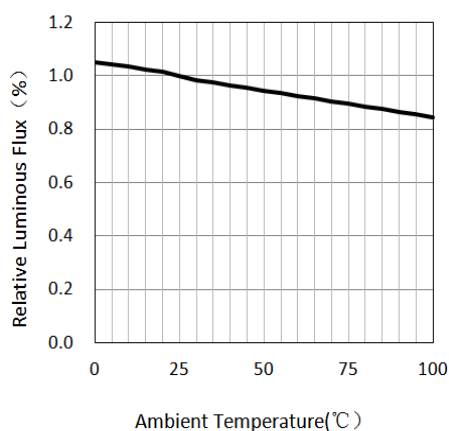
Forward Voltage VS. Forward Current

正向电压与正向电流特性曲线



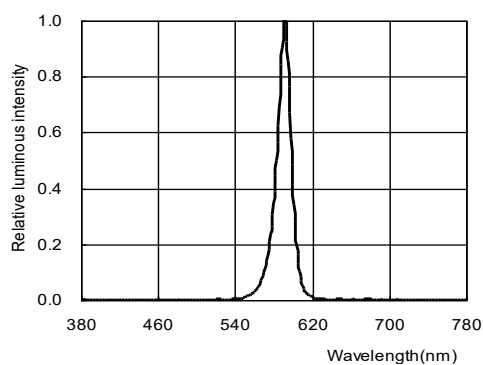
Ambient Temperature VS. Relative Intensity

环境温度与相对光强特性曲线



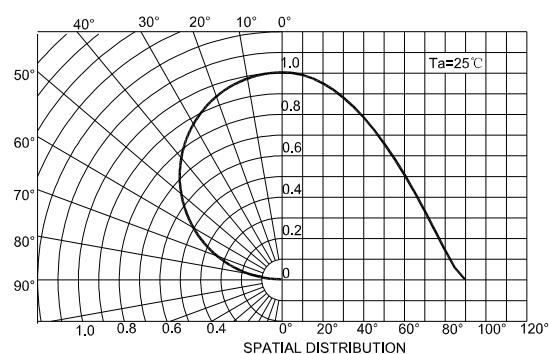
Relative spectral emission

相对光谱分布特性曲线



Radiation diagram

辐射图特性曲线



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Reliability Test Items And Conditions 信赖性测试项目及条件

Test Items 项目	Ref.Standard 参考标准	Test Condition 测试条件	Time 时间	Quantity 数量	Ac/Re 接收/拒收
Reflow 回流焊	JESD22-B106	Temp:260°Cmax T=10 sec	3 times.	22Pcs.	0/1
Thermal Shock 冷热冲击	JESD22-A106	-45°C-125°C 15min/10s/15min	100 Cycles	22Pcs.	0/1
High Temperature Storage 高温保存	JESD22-A103	Temp:100°C±5°C	1000Hrs.	11Pcs.	0/1
Low Temperature Storage 低温保存	JESD22-A119	Temp:-40°C±5°C	1000Hrs.	11Pcs.	0/1
Life Test 常温通电	JESD22-A108	Ta=25°C±5°C IF=5mA	1000Hrs.	11Pcs.	0/1
High Temperature High Humidity 高温高湿保存	JESD22-A101	85°C±5°C/ 85%RH	1000Hrs.	11Pcs.	0/1

Criteria For Judging Damage 失效判定标准

Test Items 项目	Symbol 符号	Test Condition 测试条件	Criteria For Judgement 判定标准	
			Min. 最小	Max. 最大
Forward Voltage 正向电压	V _F	I _F =5mA	--	U.S.L*)x1.1
Reverse Current 反向电流	I _R	V _R = 5V	--	U.S.L*)x2.0
Luminous intensity 光强	I _V	I _F =5mA	L.S.L*)x0.7	--

U. S. L: Upper standard level 规格上限

L. S. L: Lower standard level

*The technical information shown in the data sheets are limited to the typical characteristics and circuit examples of the referenced products. It does not constitute the warranting of industrial property nor the granting of any license.

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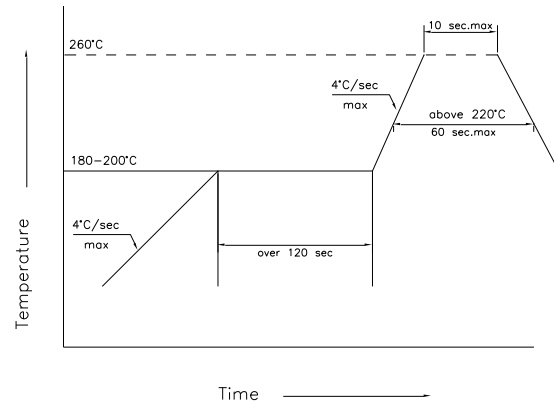
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SMT Reflow Soldering Instructions SMT回流焊说明

1.Reflow soldering should not be done more than two times. 回流焊不可以做两次以上

2.When soldering , do not put stress on the LEDs during heating

当焊接时，不要在材料受热时用力压胶体表面



Soldering iron 烙铁焊接

1.When hand soldering, keep the temperature of iron below less 350° less than 5 seconds

当手工焊接时，烙铁的温度必须小于350°C，时间不可超过5秒

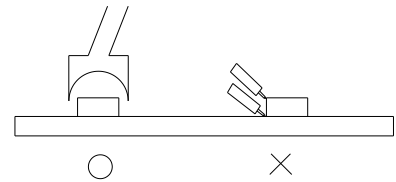
2.The hand solder should be done only one times

手工焊接只可焊接一次

Repairing 修补

Repair should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used (as below figure). It should be confirmed in advance whether the characteristics of LEDs will or will not be damaged by repairing.

LED回流焊后不应该修复，当修复是不可避免时，必须使用双头烙铁（如下图），但必须事先确认此种方式会或不会损坏LED本身的特性。



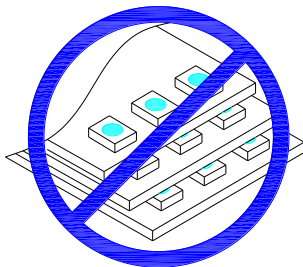
Cautions 注意事项

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

不可将模组材料堆积在一起，它可能会损坏内部电路

2.Not suitable to operate in acidic environment, PH<7

不可用在PH<7的酸性场所



3.Other points for attention, please refer to our LED user manual, In accordance with the user manual, the product shelf life is 24 months, If there is a warranty agreement, the warranty agreement shall prevail

其它注意事项请参照我们的LED使用手册，符合使用手册的情况下，产品保质期为24个月，已签订保质协议的则以保质协议为准

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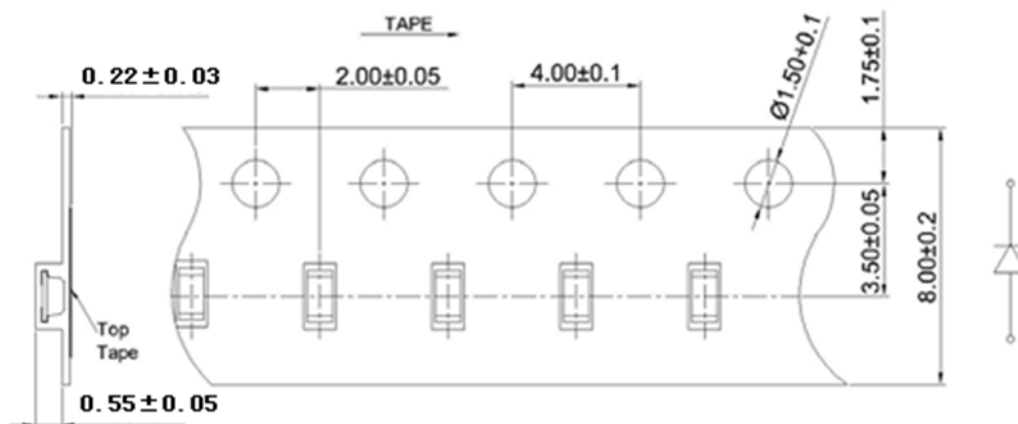
Label 标签

Part No: Part number 型号
IV: Luminous intensity rank 亮度等级
WLD: Dominate Wavelength 波长等级
VF: Forward voltage rank 电压等级
LotNo: Lot number 批号



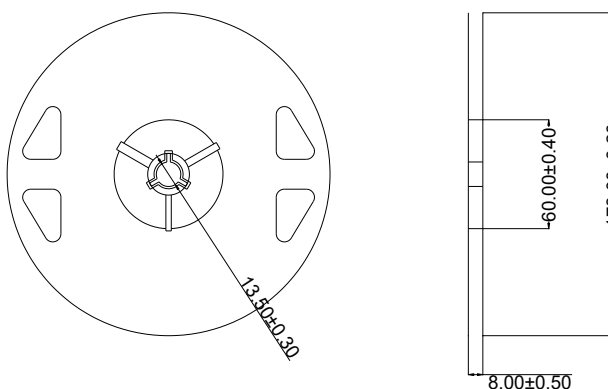
Tape Specifications (Units : mm)

载带规格 (单位: mm)

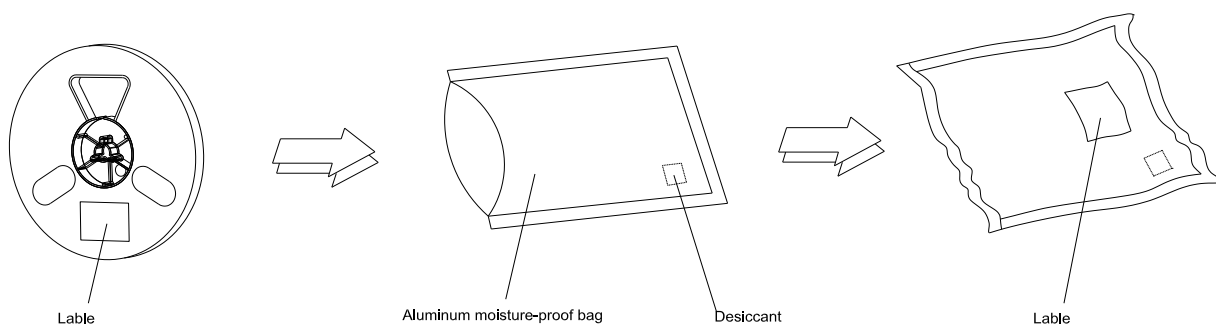


Reel Dimensions

卷轴尺寸



Moisture Resistant Packaging 防潮带包装



Note: The tolerances unless mentioned is $\pm 0.1\text{mm}$, Unit: mm

注: 标注公差为 $\pm 0.1\text{mm}$, 单位: mm

修订次数	修订人	修订内容	修订日期	版次
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