



苏州群力欣光电科技有限公司

Suzhou Que-lesion Optoelectronic Technology co.,Ltd

产品规格书

SPECIFICATION

客户名称 Customer		产品名称 Product	1206LED
客户料号 Customer No.		产品型号 Type	QSTEYC3-04-20MA
规格书编号 SPEC No	20161221002	日期 Date	2016.12.21

客 户 确 认 APPROVED SIGNATURES		

制定(DRAW): _____ 审核(CHECK): _____ 批准 (APPROVE): _____

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QSTEYC3-04-20MA

特征 Features

- 宽的发光角度
Extremely wide viewing angle
- 适合所有 SMT 组装和焊接过程
Suitable for all SMT assembly and solder process
- 可用在载带及卷轴上
Available on tape and reel
- 防潮等级:3 级
Moisture sensitivity level: Level 3
- 包装 3000pcs/卷
Package:3000pcs/reel
- 符合欧盟 RoHS 标准
RoHS compliant

描述 Description

该产品为黄光 LED，是由黄光芯片封装形成

The Colour LED which was fabricated by using a yellow chip

应用 (Applications)

光学指示

Optical indicator

室内显示

Indoor display

汽车照明

Automotive lighting

LCD 背光、转换器，开关和标志，显示器等 Backlight for LCD , switch and symbol , display

用于日光灯管

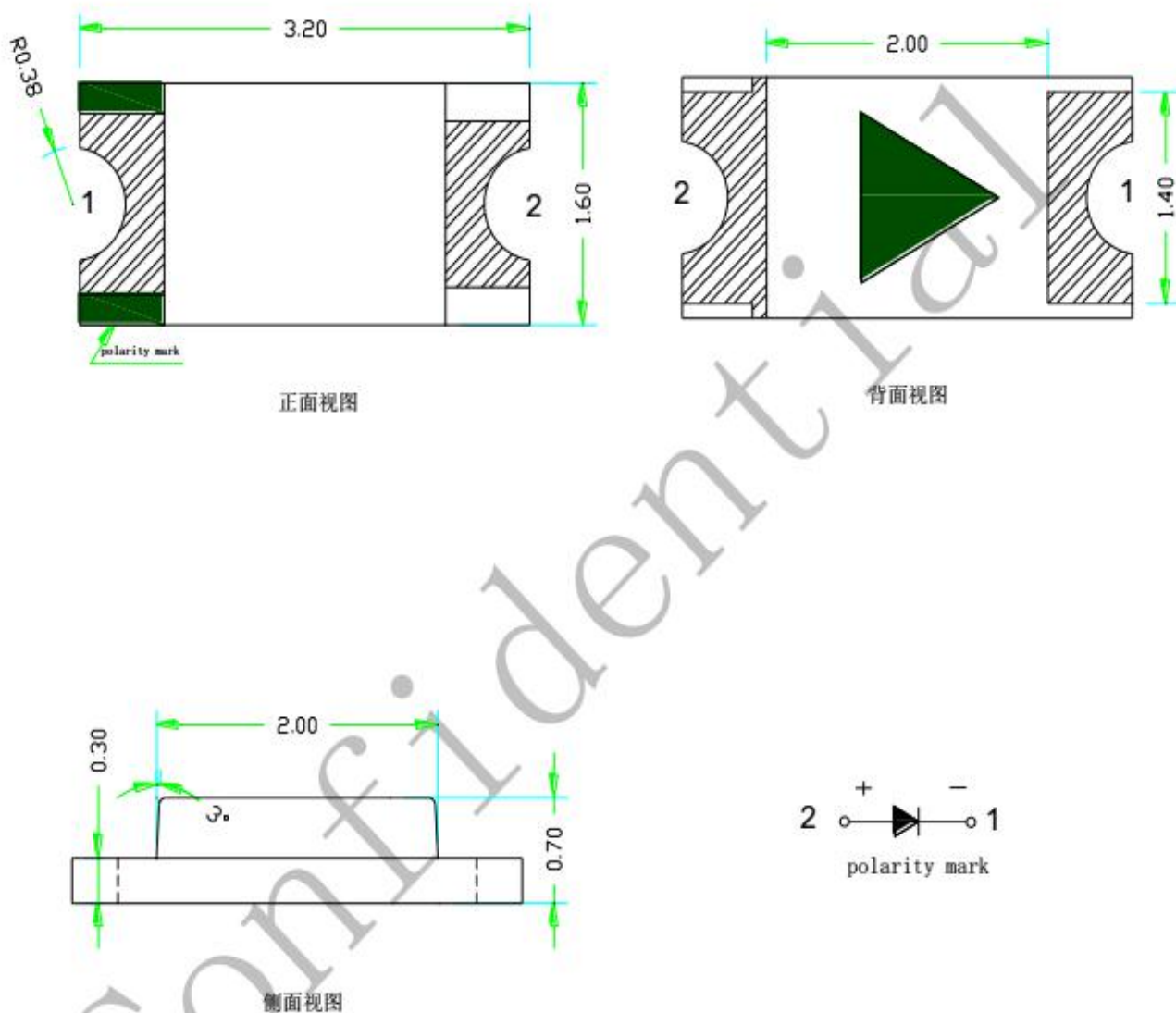
Tubular light application

一般应用

General use

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外形尺寸 Outline Dimensions



NOTES:

1. All dimensions units are millimeters. (所有尺寸标注单位为毫米)
2. All dimensions tolerances are $\pm 0.2\text{mm}$ unless otherwise noted. (除特别标注外, 所有尺寸公差为 ± 0.2 毫米)



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3. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	2 θ 1/2
I	YELLOW (GaAsP/GaP)	WATER CLEAR	70	150	120

Note:

1. θ1/2 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	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Yellow	588	592	nm	IF=20mA
λD	Dominant Wavelength	Yellow			nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Yellow			nm	IF=20mA
C	Capacitance	Yellow	20		pF	VF=0V;f=1MHz
VF	Forward Voltage	Yellow	1.9	2.3	V	IF=20mA
IR	Reverse Current	Yellow		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

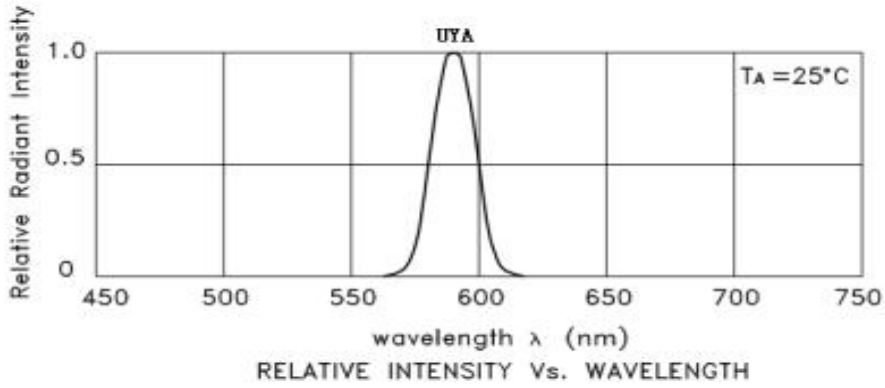
Note: Accuracy may depend on the sorting parameters

Absolute Maximum Ratings at TA=25°C

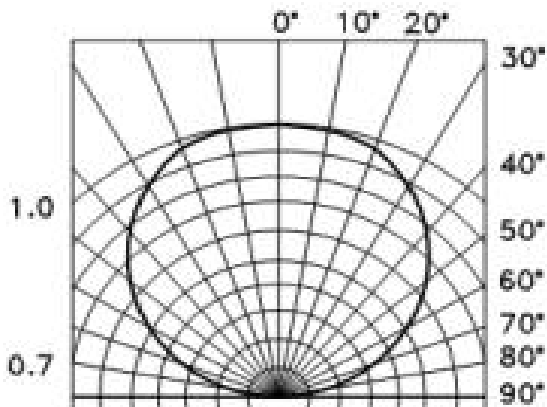
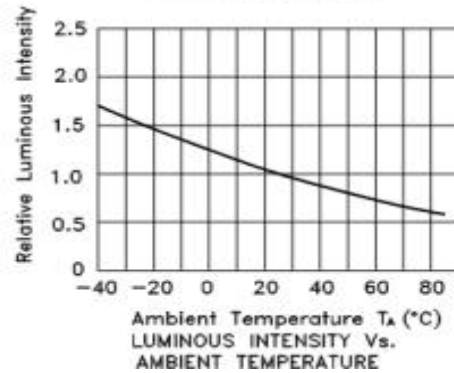
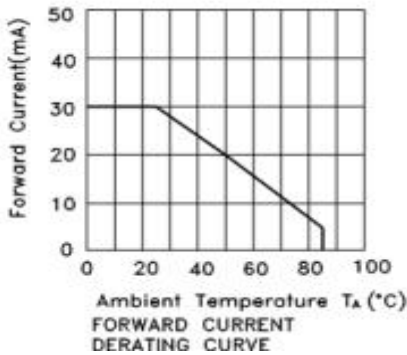
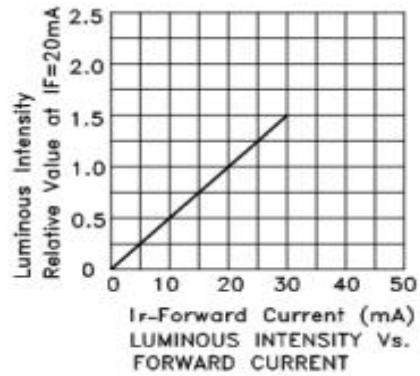
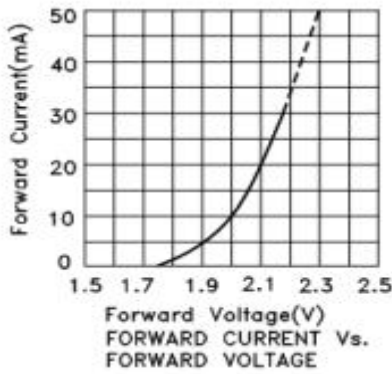
Parameter	YELLOW	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	80	mA
Reverse Voltage	5	V
Operating/ Storage Temperature	-40°C To +85°C	

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



Super Bright Orange **E6C1206UYAC1UDA**





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可靠性

RELIABILITY

测试项目及结果 Test Items and Results						
序号	试验项目	参考标准	试验条件	持续时间	取样数	接收水准(不合格数量/抽样总数)
1	温度循环	JEITA ED-4701	-40°C~25°C~100°C~	循环 100 回 合	50	0/50
			25°C 30 分钟 5 分钟 30 分 钟 5 分钟			
2	冷热冲击	MIL-STD-202G	-40°C~100°C	循环 500 回 合	50	0/50
			15 分钟 15 分钟			
3	高温储存	JEITA ED-4701 200 201	T _s =100°C	1000 小 时	50	0/50
4	低温储存	JEITA ED-4701 200 201	T _s =-40°C	1000 小 时	50	0/50
5	常温寿命		T _s =25±5°C	1000 小 时	50	0/50
	试验		I _f =20mA			
6	高温高湿		T _s =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 _{ref} =235°C±5°C, 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	JEITA ED-4701	T _{ref} =260°C, 10 秒	焊接二 次, 每次 10 秒	10	0/10
	(回流焊)	300 301	预处理: 35°C 95%RH 96 小时			
备注	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					

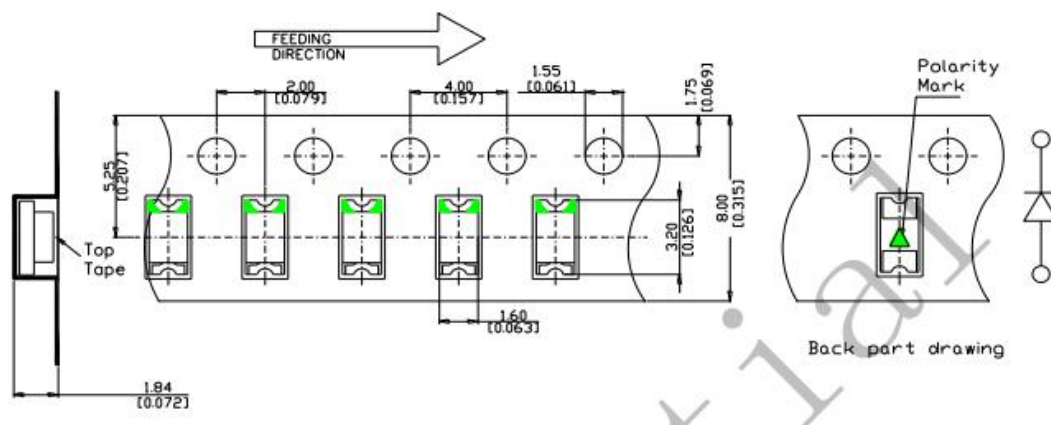
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包装 Packaging

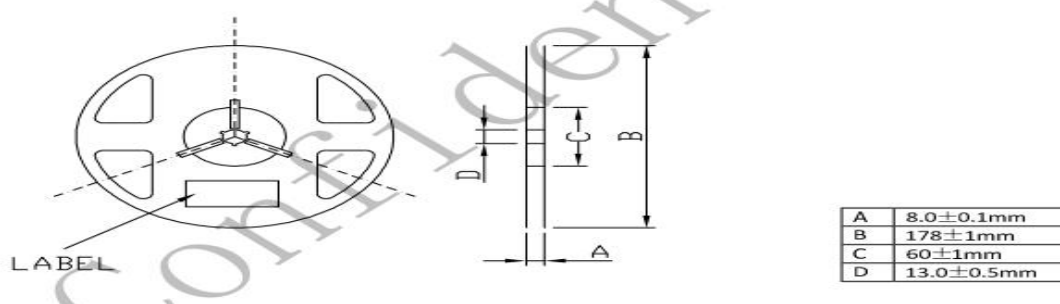
标签 Label

料号 Part No.:*** 批号 Lot No.:*** 数量 O'ty(pcs):***
 亮度 Iv(mcd):*** 波长 (nm) :*** 电压 VF (v) :***
 日期 Date:***

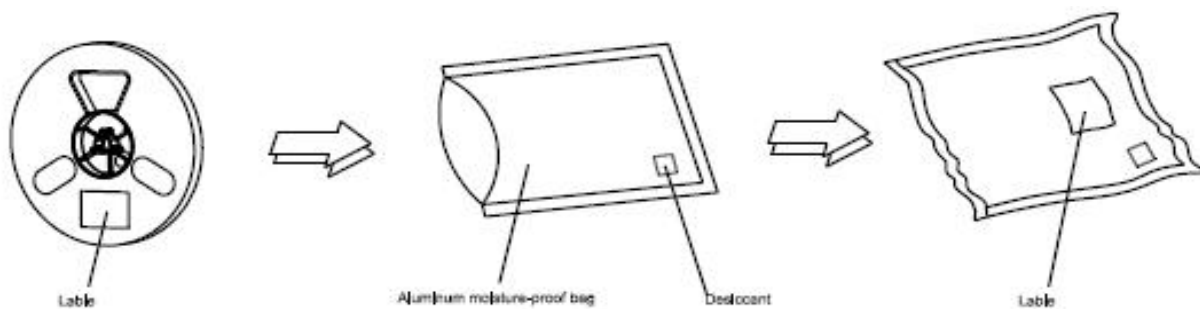
载带规格 (单位: mm) Tape Specifications(Units:mm)



卷轴尺寸 Reel Dimensions



防潮袋包装 Moisture Resistant Packaging



备注: 标注公差为±0.1mm,单位: mm

Note : The tolerances unless mentioned is ±0.1mm,Unit:mm

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焊接指导 Guideline for Soldering

Soldering iron 烙铁焊接

1. When hand soldering, keep the temperature of iron below less 300°C less than 3 seconds

当手工焊接时，烙铁的温度必须小于300℃，时间不可超过3秒

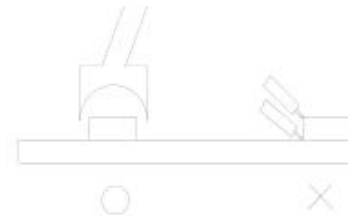
2. The hand solder should be done only one times

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**

The encapsulated material of the LEDs is silicone. Therefore the LEDs have a soft surface on the top of package. The pressure to the top surface will be influence to the reliability of the LEDs. Precautions should be taken to avoid the strong pressure on the encapsulated part. So when use the picking up nozzle, the pressure on the silicone resin should be proper.

LED封装为硅胶，故LED胶体表面较软，用力按压胶体表面会影响LED可靠性，因此应有预防措施避免在封装的零件上的强大压力，当使用吸嘴时，胶体表面的压力应是恰当的。

3. 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

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

不可用在PH<7的酸性场所

