承认书

客户名称:					
CUSTOMER NAME:					
经办者:		职	!称:		
DIRECTOR:		TITL	.E:		
客户料号:					
CUSTOMER PART NO.:					
品名:			仮本:		
PART NUMBER: KT-1	206 翠绿色	REVISION:	2.0		
发件日期:		<u>[</u>	回文日期:		
ISSUE DATE: 2	1016-5-12	RETURN	I DATE:	1	
一、谨致执事者: 兹提信 敬请给予办理测试证 同时敬请送返一份的 We are please in sending Please return to us one 二、附件:	人定手续。 付有贵公司签认之 g you herewith our spe	测试认定后之 cification and draw	样品认定丰 vings for your	approv	<i>r</i> al.
ACCESSORY: □样	品 □出货检验记录	录表 □封装尺	寸图 口电	气特	生曲线
□内部线路图 □焊	性建议 □PAD 建	议 □包装方式	Š		
三、客户意见栏 CUST	TOMER'S PROPO	SAL			
□ AGREE 同意 □ DISAGREE 不同	(请于认可栏中签》]意	名)			
REASON 原因:					
	CUSTOMER SIG	NATURE:			

Features

- _3.2mmX1.6mm SMT LED, 0.90mm THICKNESS.
- LOW POWER CONSUMPTION.
- _WIDE VIEWING ANGLE.
- _IDEAL FOR BACKLIGHT AND INDICATOR.
- _VARIOUS COLORS AND LENS TYPES AVAILABLE.
- _PACKAGE: 3000PCS / REEL.
- _RoHS COMPLIANT.

Description

The GREEN source color devices are made with GaN on

Sapphire Light Emitting Diode.

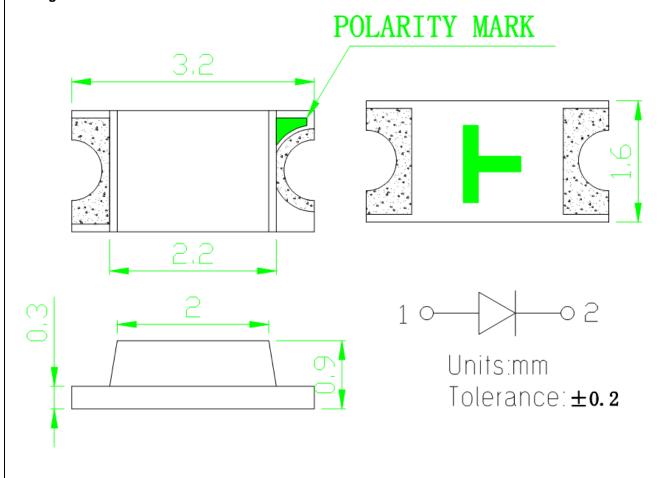
Static electricity and surge damage the LEDS.

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 $\pm 0.1 (0.004\mbox{"})$ unless otherwise noted.
- 3. Specifications are subject to change without notice.

Selection Guide

			lv (mcd)	Viewing
Part No.	Dice	Lens Type	@ 10mA	Angle

			Min.	Тур.	2 θ 1/2
E6C1206VGAC1UDA	GREEN (GaN)	WATER CLEAR	200	400	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	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	GREEN	518	528	nm	IF=10mA
λD	Dominant Wavelength	GREEN			nm	IF=10mA
Δλ1/2	Spectral Line Half-width	GREEN	25		nm	IF=10mA
С	Capacitance	GREEN	105		pF	VF=0V;f=1MHz
VF	Forward Voltage	GREEN	2.8	3.2	٧	IF=10mA
IR	Reverse Curren	GREEN		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

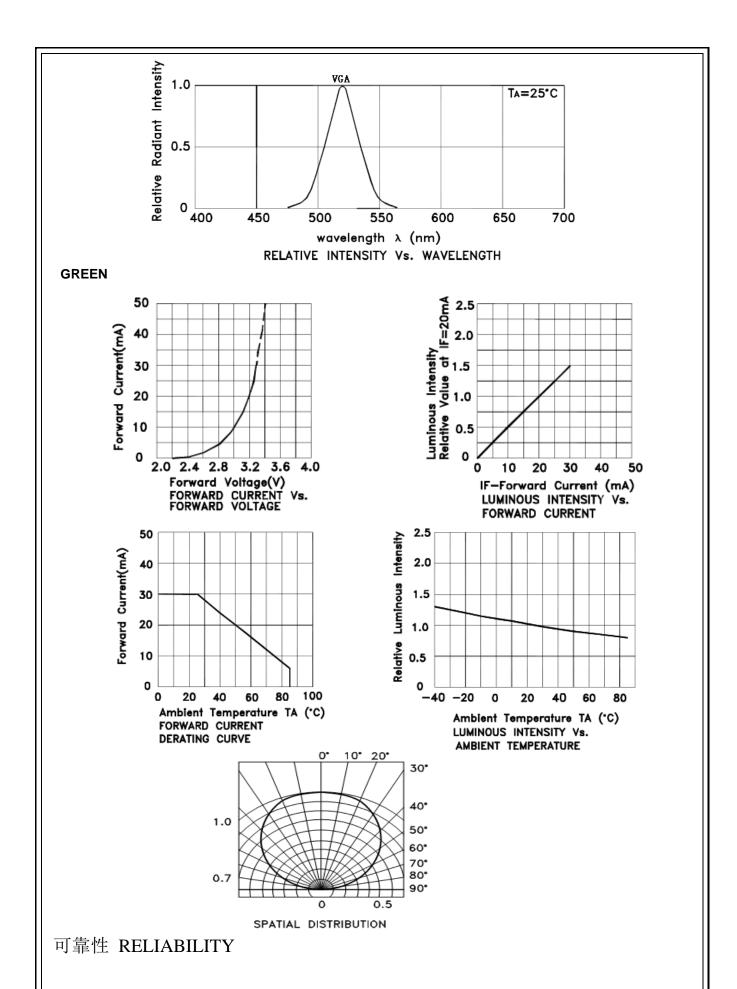
Note: Accuracy may depend on the sorting parameters

Absolute Maximum Ratings at Ta=25°C

Parameter	GREEN	Units
Power dissipation	135	mW
DC Forward Current	30	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note:

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



测试项目及结果 Test Items and Results

序号 试验项目 参考标准 試验条件 持续时间 取样数 接收水准(不合格数量) 1 温度循环 JEITA ED-4701 25℃ 100℃ 40℃~100℃ 40℃~100℃ 40℃~100℃ 500 1000 400 40℃~100℃ 40℃~100℃ 400℃ 15 分钟 15 分钟 500 10 400 400 400 400 400 400 400 400 40							
1 温度循环					持续时	取样	接收水准(不合格
1 温度循环	序号	试验项目	参考标准	试验条件	间	数	数量/抽样总数)
2 冷热冲击 MIL-STD-202G 15 分钟 15 分钟 500 回 50 0/50 合 3 高温储存 JEITA ED-4701 200 201 T₃=100℃ 1000 小 时 50 0/50	1	温度循环		25℃ 30 分钟 5 分钟 30 分	100 回	50	0/50
3 高温储存 200 201 T _s =100℃ 1000 小 时 50 0/50 4 低温储存	2	JEITA ED-4701			500 回	50	0/50
4 低温储存 200 201 T _s =-40℃ 时 50 0/50 **	3			Ta=100°C		50	0/50
5 常温寿命 试验 T₃=25±5℃ IF=20mA 时 50 0/50 6 高温高湿 寿命试验 T₃=60℃ RH=85% IF=20mA 1000 小 时 50 0/50 7 可焊性 (回流焊) JEITA ED-4701 300 303 T₃₀=235℃±5℃,5 秒 使用助焊剂 焊接一 次,5 秒 10 0/10 8 耐焊性 (回流焊) JEITA ED-4701 300 301 T₃₀=260℃,10 秒 所处理: 35℃ 95%RH 96 小时 焊接二 次,每次 10 0/10 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	4	低温储存		Ta=-40°C		50	0/50
6 高温高湿 寿命试验 T₃=60℃ RH=85% 时 1000 小 时 50 0/50 7 可焊性 (回流焊) 300 303 T₅₀=235℃±5℃,5 秒 使用助焊剂 焊接一次,5 秒 10 0/10 8 耐焊性 JEITA ED-4701	5	常温寿命		T₃=25±5°C		50	0/50
6 高温高湿 寿命试验 T₅=60℃ RH=85% IF=20mA 时 50 0/50 7 可焊性 (回流焊) JEITA ED-4701 300 303 T₅oi=235℃±5℃,5 秒 使用助焊剂 焊接一 次,5 秒 10 0/10 8 耐焊性 (回流焊) JEITA ED-4701 300 301 T₅oi=260℃,10 秒 70 处理: 35℃ 95%RH 96 小时 焊接二 70 处理: 35℃ 95%RH 10 秒 0/10 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		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 耐焊性 JEITA ED-4701 T _{sol} =260℃,10 秒 焊接二 预处理: 35℃ 95%RH 次,每次 10 0/10 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	6	高温高湿		Ta=60°C RH=85%		50	0/50
7 (回流焊) 300 303 使用助焊剂 次, 5 秒 10 0/10 耐焊性 JEITA ED-4701 T ₅₀ =260℃,10 秒 焊接二		寿命试验		I _F =20mA			
	7	可焊性	JEITA ED-4701	T _{sol} =235℃±5℃,5 秒		10	0/10
8 (回流焊) 300 301 预处理: 35℃ 95%RH 次,每次 10 0/10 10 秒 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		(回流焊)	300 303	使用助焊剂	次,5 秒		
(回流焊) 300 301 96 小时 10 秒 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		耐焊性	JEITA ED-4701	Tsol=260℃,10 秒			
户的要	8	(回流焊)	300 301			10	0/10
		户的要					

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

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.

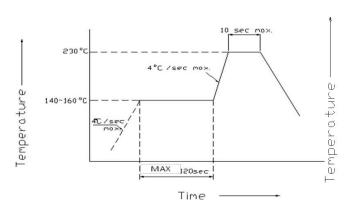
Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and Second soldering process.

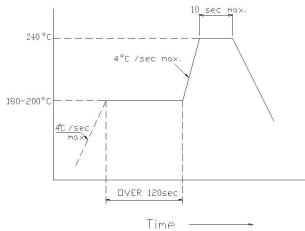
推荐焊接条件(Recommended soldering conditions)

回流	焊接 Reflow Solder:	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 峰值温度 Peak temperature 焊接时间 Soldering time 条件Condition	140 ~ 160° C 120 sec. Max. 230° C Max. 10 sec. Max. 参考下图	180 ~ 200° C 120 sec. Max. 240° C Max. 10 sec. Max.	time	(one time only)

有铅回焊 (Lead Solder)

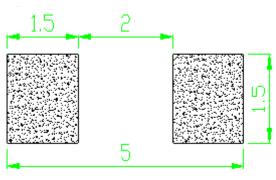
无铅回焊 (Lead-Free Solder)





Recommended Solderii

(Units: mm)



(2)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 $85^{\circ}\text{C}/6\text{H}$.

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。

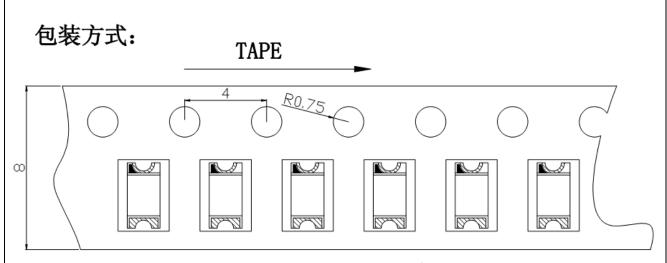
Products not be used for or over 60days after being packaged please return back to take drying out and packaging process for forward using.

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

包装 PACKAGING

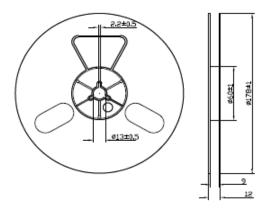
LEDS 在装带之后纸箱包装. The LEDs are packed in cardboard boxes after taping.



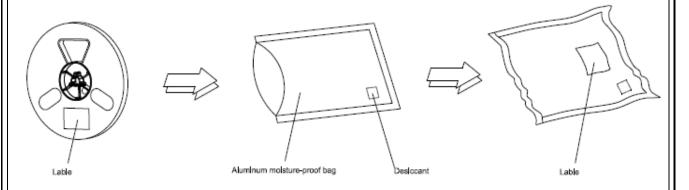
Package: 3000 pcs/reel

Reel Dimensions

卷轴尺寸



Moisture Resistant Packaging 防潮带包装



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