产品规格书

Samples approval sheet

客户名	宮称	(Customer name	2);
产品名	宫称	(Production nam	ne): <u>3mm 圆头有边雾状绿发黄绿短</u> 脚
型	号	(Model):	BQ-3411GD-TJ
编	号	(Part number):	
日	期	(Date):	

	佛山市禅城区贝奇光电器材厂						
编制 Prepared by							
陈润炽							

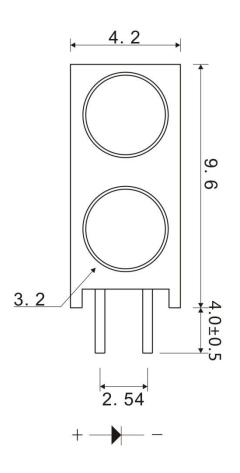
客户确认					
	Customer Confirmation				
确认	确认 审核 核准				
Confirmed by	Checked by	Apporved by			

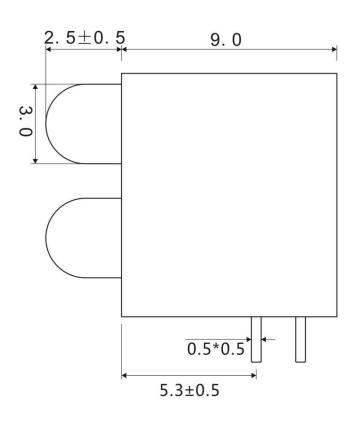
地址(Add): 佛山市禅城区张槎街道莲塘村莲丰工业开发区北 4-5 号六楼

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一、外形图 Outline dimensions:





单位	公差	芯片材质	胶体颜色	发光颜色	
Unit	Unit Tolerance		Lens color	Emitting color	
mm	\pm 0.2mm	AlGaInP	Green Diffused	Yellow Green	
mm	\pm 0.2mm	AlGaInP	Green Diffused	Yellow Green	

※备注: 承认书之编号和型号可用于查询,客户如有需要,请提供相应的编号和型号。

Remark: P/N & Model in samples approval sheet can be used to inquire , please provide corresponding P/N & model if customer need.

型 号 Model:

BQ-3411GD-TJ

页 码 Page: 2/5

二、光电参数 Photo electricity Parameter

(环境温度 Ambient temperature: 25℃ 相对湿度 Humidity: RH 60%)

项目	符号	测试条件	颜色	最小值	典型值	最大值	单位
Item	Symbol	Test condition	Color	Min	Туре	Max	Unit
反向电流	ID	IR VR=5V	G	/	/	10	μА
Reverse Current	IK		G				
正向电压	\/_	VF IV IF=20mA	G	1.8	/	2.4	V
Forward Voltage	VF		G	1.8	/	2.4	V
发光强度	1) /		G	30	/	100	ma a d
Luminous Intensity	IV		G	30	/	100	mcd
主波长	۱	IF=20IIIA	G	565	/	575	nm
Dominant Wavelength	λd		G	565	/	575	nm
半光强角	20 1/2		G	/	60	/	doa
Viewing Angle	2θ 1/2		G	/	60	/	deg

备注: 亮度测试公差±15%, 波长测试公差±1nm, 正向电压测试公差±0.1V

Remark: The tolerance of intensity \pm 15%, the tolerance of wavelength \pm 1nm, the tolerance of forwards voltage \pm 0.1V.Only reference for above when testing.

三、极限参数 Absolute Maximum Rating

(环境温度 Ambient temperature: 25℃ 相对湿度 Humidity: RH 60%)

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项目	符号	数值	单位	备注	
Item	Symbol	Value	Unit	Remark	
正向电流	IF	30	m A		
Forward Current	IF		mA		
峰值正向电流*	IFP	50	mA		
Peak Forward Current*	IFF	50	IIIA		
功耗	PD	75	mW		
Power Dissipation	PD	/5	IIIVV		
工作环境温度	Topr	-40 to +85	$^{\circ}$ C		
Operation Temperature	торі	-40 (0 +63	C		
贮藏温度	Tstg	-40 to +85	$^{\circ}$ C		
Storage Temperature	istg	-40 (0 +63	C		
焊接温度	Tsol	260±5℃	°C	Less than 5 Second	
Soldering Temperature	1301	200⊥3 €		Less than 5 Second	

*注:脉冲宽度≤0.1ms,占空比≤1/10

*Note: pulse Width≤0.1ms,Duty≤1/10

四、可靠性实验项目 Reliability Test Project

描述	项目	测试标准	测试条件	测试时间	数量	失效数量
Description	ltem	Test criterion	Test condition	Testtime	Qty	Fail qty
寿命测试 Life test	术 常温寿命测试 JIS7021:B4 Ta=25℃±5℃,IF=30mA		1000Hrs	20	0	
	高温存储 High temperature store	JIS7021:B10 MIL-STD-202:210A MIL-STD-750:2031	Ta=85°C±5°C	1000Hrs	20	0
环境测试	低温存储 Low temperature store	JIS7021:B12	Ta=-35°C±5°C	1000Hrs	20	0
Ambience test	冷热冲击测试 Cold / Heat strike test	JIS7021::B4 MIL-STD-202:107D MIL-STD-750:1026	30min -10°C±5°C ←→ 100°C±5°C 5min 5min	50Cycles	20	0
	冷热循环测试 Cold and heat cycle test	JIS7021:A3 MIL-STD-202:107D MIL-STD-705:105E	5min 5min 5min -35°C~25°C~85°C~35°C 30min 5min 30min 5min	50Cycles	20	0

判断标准 Judging Criterion

项目 Item	符号 Symbol	实验条件 Experiment condition	判断标准 Criteria Min. Max.	
Forward Voltage	VF	IF=20mA		Initial Datex1.1
Reverse Current	lr	Vr=5V		30µ A
Luminous Intensity	IV	IF=20mA	Initial Datex0.7	

五、注意事项 Note

- (一) 引脚成型方法 Led bracket forming method
- (1) 必需离开胶体 3 毫米才能折弯支架

The pin of led can be bent where is at least 3mm out of led colloid.

(2) 支架成型必须用夹具或由专业人员来完成。

Must use fixture to deform the led bracket.

(3) 支架成型必须在焊接前完成。

Finishing the forming of led bracket must be before soldering.

(4) 支架成型需保证引脚和间距与线路板上一致。

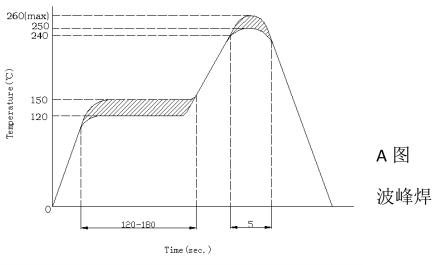
Guarantee the gap between two pin of led tallys with LED pads in PCB when forming.

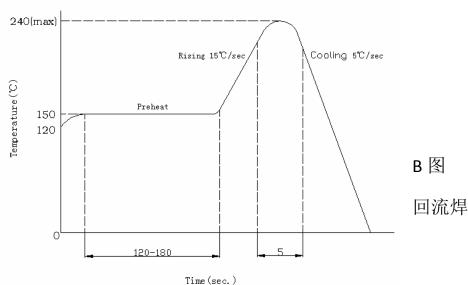
(二) 烙铁 Manual soldering

烙铁(最高 30W) 尖端温度不超过 260℃, 焊接时间不超过 3 秒, 焊接位置至少离胶体 3 毫米。

The tip temperature of soldering iron don't exceed 260°C; soldering time don't exceed 3s and soldering position must be 3mm out of led colloid.

可靠性焊接温度(A 图、B 图)Soldering temperature curve chart(figure A、figure B)





(三) 防静电措施 ESD countermeasure

静电及高压会对 LED 造成损坏,特别是芯片材质为 InGaN 的产品对静电防护要求更加严格,要求在使用和 检验产品时戴防静电手腕带或防静电手套,焊接工具及设备外壳需可靠接地,焊接条件遵循此份规格书中的 条件。

Static electricity and high volt can damage led, The production whose Die material is InGaN must strictly required to prevent ESD, Must put on static glove and static fillet, Soldering tool and the cover of device must connect the ground, soldering condition follows the related stating of production specification manual.

(四) 过电流保护 Protecting countermeasure when over current

为避免由于电压的变化引起大电流冲击而造成产品损坏,需要加入保护电阻。

Need add the protecting resistor in circuit in order to avoid damaging led due to big current and voltage fluctuation.

(五) LED 安装方法 LED installation method

1)注意各类器件外线的排列以防极性装错,器件不可与发热组件靠得太近,工作条件不要超过其规定的极限。

Pay attention to the led polarity and avoid installation wrong. Led can't be close to euthermic component, work condition should tally with it's specification.

- 2) 务必不要在引脚间距变形的情况下安装 LED。
 - Don't install the LED under the condition of the led pin deformation.
- 3) 当装配 LED 进入 PCB 或装配孔时时,LED 支架不能承受任何压力。
 The led bracket don't load any pressure when installing the led into PCB or fitting hole。
- 4)在焊接温度回到正常以前,必须避免使 LED 受到任何的震动或外力。 Must avoid any strike and force on led before the soldering temperature return to room temperature。

(六)存储时间 Storage time

- 1) 在温度 5℃~35℃,湿度 RH60%条件下,产品可以保存一年。超过保存期的产品需要重新检测后方能使用。 Led can be stored for a year under the condition: the temperature of 5°C~35°C and humidity of RH60%, These production must be re-inspected and tested before use if their storage time exceed a year。
- 2)如果打开的产品在 5℃~35℃,RH60%的空气条件下放置超过一周,则需要将产品在 65℃±5℃的环境中 放置 24 小时以上,并尽量在十五天内使用。

If led is exposed in air for a week under the condition: the temperature of 5°C \sim 35°C, humidity of RH60%, must place the led in the ambience of 65°C \pm 5°C for 24 hours and use it in 15 days for best.

(七)清洗 Cleaning

当用化学物品清洗胶体时必须特别小心,因为有些化学品对胶体表面有损伤并引起褪色如三氯乙烯、丙酮等。可用乙醇擦拭、浸渍,时间在常温下不超过3分钟。

Be careful of some chemical results in the led colloid fades and damage when using chemical clean the led, such as trichloroethylene, acetone etc。 can use ethanol to wash or soak led but the time don't exceed 3 minutes.

(八)弯脚 Kinked

当 LED 成形弯脚时,弯脚模具容易刮花 LED 脚支架镀层,刮伤处容易生锈,特别是空气湿度大时。为减少生锈寄回,建议使用镀锡支架。

The kinked tooling scrape easily the pin of led, where the led bracket is rusting easily, especial expose it in moist air. To decrease the led bracket rust, advise using plated tin led bracket.

单击下面可查看定价,库存,交付和生命周期等信息

<u>>>BeiQi</u>