

KURIOS

承认书

Specification For Approval

客户名称 (Customer Name): _____

产品编号 (Product ID): _____

产品型号 (Product Model): _____

产品规格 (Product Specifications): LPT 3313

送样日期 (Date): _____

客户确认 (Customer acknowledges that)

鹏远光电 (Pengyuan Optoelectronics)

核准 Approved	审核 Audit	确认 Confirm	业务 Business	工程 Engineering	制作 Make
				Wu	Wu

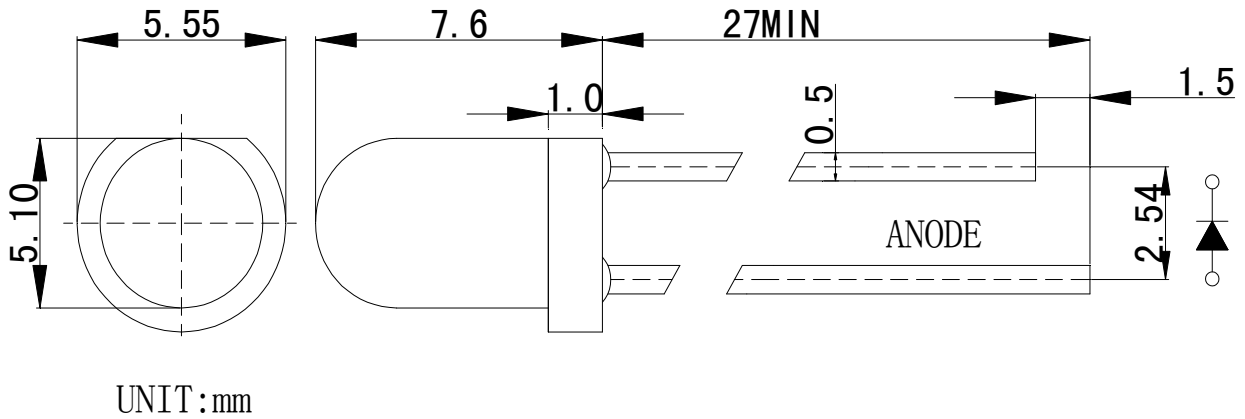
客户确认 (Customer acknowledges that): 合格 Qualified 不合格 Failure

客户意见 (Customer feedback):

Blank area for customer feedback.

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尺寸 Dimensions: 单位 Unit: 毫米 mm [英寸] [inch]



备注 (Notes:)

- 1.所有尺寸单位是 mm
All dimension units are millimeters.
- 2.塑胶部分未标记尺寸的公差为 ± 0.05
All dimension tolerance is ± 0.05 mm unless otherwise noted.
- 3.所有胶体底部与引脚处多胶部分大约为 1.5mm
An epoxy meniscus may extend about 1.5mm down the leads
- 4.支架部分镍低 30u" min 镀锡厚度 80 u" min
- 5.支架长度最大公差为 ± 0.12 mm 以内

LED Chip (LED 芯片)		胶体颜色
材料 Material	发光颜色 Emitting Color	Lens Color
InGaN	无	Black lens

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最大绝对额定值(室温 = 25°C) Absolute Maximum Ratings at (Ta = 25°C)

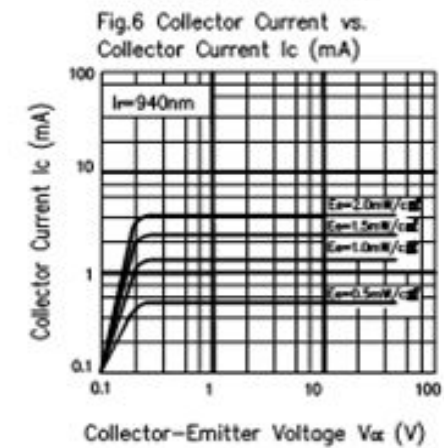
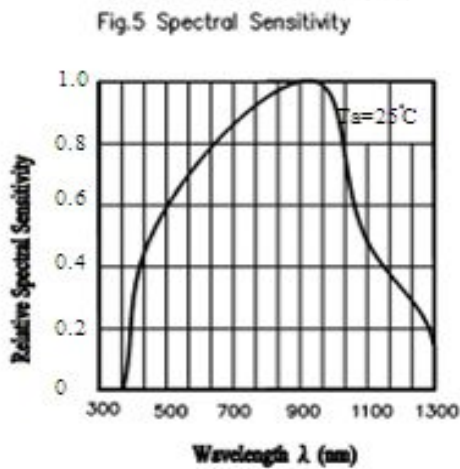
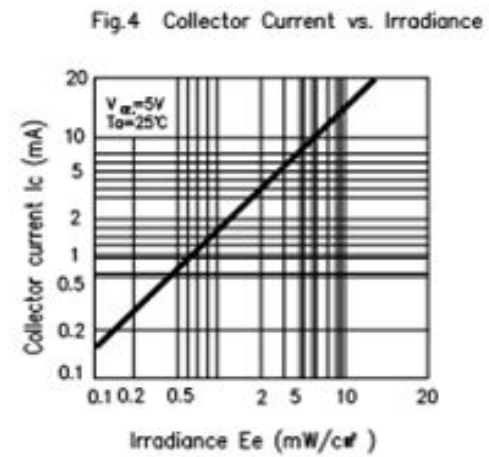
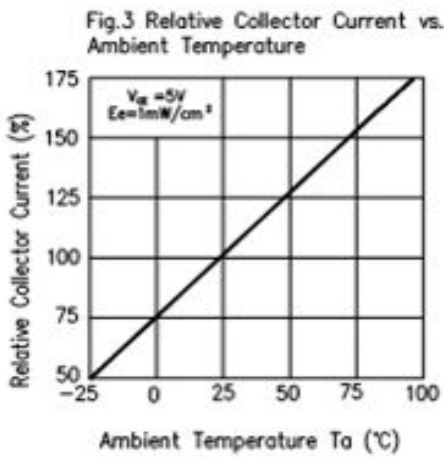
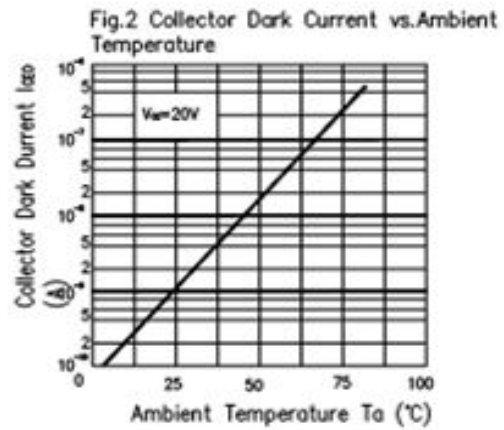
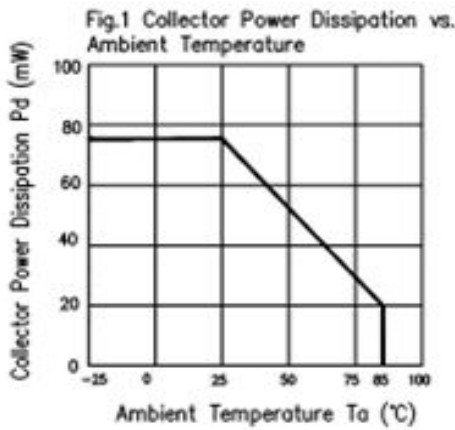
Parameter	Symbol	Absolute Maximum Rating	Unit
Collector-Emitter Voltage	V _{CEO}	30	V
Emitter-Collector-Voltage	V _{CEO}	5	V
Collector Current	I _C	40	mA
Power Dissipation	P _D	75	mW
Operating Temperature	T _{opr}	-40~+80	°C
Storage Temperature	T _{stg}	-40~+100	°C
Soldering Heat (5s)	T _{sol}	260	°C

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Collector - Emitter Breakdown Voltage	BV _{CEO}	30	---	---	V	I _C =100 A Ee=0mW/cm ²
Emitter-Collector Breakdown Voltage	BV _{CEO}	5	---	---	v	I _E =100 A Ee=0mW/cm ²
Collector-Emitter Saturation Voltage	V _{(CE)(sat)}	---	---	0.4	V	I _C =2mA Ee=1mW/cm ²
Rise Time	t _r	---	15	---	S	V _{CE} =5V I _C =1mA R _L =1000Ω
Fall Time	t _f	---	15	---		
Collector Dark Current	I _{CEO}	---	---	100	nA	Ee=0mW/cm ² V _{CE} =20V
On State Collector Current	I _{C(on)}	0.53		3.41	mA	Ee=0.555mW/cm ² V _{CE} =5V
Wavelength of Peak Sensitivity	λ _p	---	940	---	nm	---
Rang of Spectral Bandwidth	λ _{0.5}	400	---	1200	nm	---

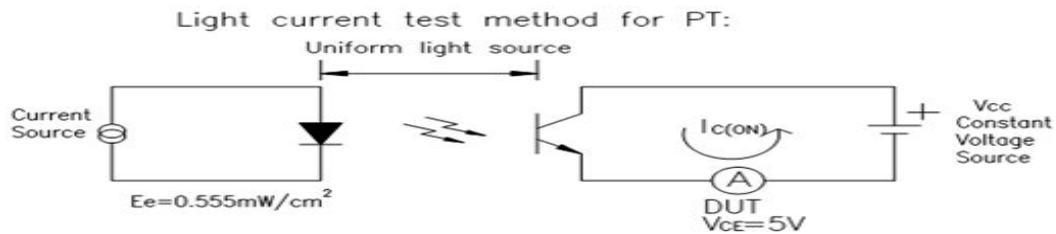
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Typical Electro-Optical Characteristics Curves



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Test method



Ranks

Parameter	Symbol	Min	Max	Unit	Test condition
7-3	$I_{c(ON)}$	0.53	1.19	mA	$V_{CE} = 5V$ $E_e = 0.555 \text{ mW/cm}^2$
7-2		0.88	1.70		
7-1		1.24	2.21		
6-2		1.59	2.98		
6-1		1.77	3.41		

Reliability Test Item And Condition

The reliability of products shall be satisfied with items listed below. Confidence level : 90%
LTPD : 10%

NO.	Item	Test Conditions	Test Hours/ Cycles	Sample Sizes	Failure Judgement Criteria	Ac/Re
1	Solder Heat	TEMP: $260^\circ\text{C} \pm 5^\circ\text{C}$	10sec	22pcs	More than 90% of lead to be covered by soldering $I_R \geq U \times 2$ $E_e \leq L \times 0.8$ $V_f \geq U \times 1.2$ U : Upper Specification Limit L : Lower Specification Limit	0/1
2	Temperature Cycle	H : $+100^\circ\text{C}$ 15mins ↕ 5mins L : -40°C 15mins	300Cycle	22pcs		0/1
3	Thermal Shock	H : $+100^\circ\text{C}$ 5mins ↕ 10secs L : -10°C 5mins	300cycle	22pcs		0/1
4	High Temperature Storage	TEMP. : $+100^\circ\text{C}$	1000hrs	22pcs		0/1
5	Low Temperature Storage	TEMP. : -40°C	1000hrs	22pcs		0/1
6	DC Operating Life	$V_{CE} = 5V$	1000hrs	22pcs		0/1
7	High Temperature/ High Humidity	$85^\circ\text{C} / 85\% \text{ R.H}$	1000hrs	22pcs		0/1