



深圳市国冶星光电子有限公司

SHENZHEN GUOYEXING OPTOELECTRONICS CO., LTD.

承认书

SPECIFICATION FOR APPROVAL

客户名称 Customer: SUSAN

产品名称 Description: LED LAMP

产品型号 Model: GL-900URCC

样品编号 Lot No.: YJF080814

编号 No.: _____

日期 Date: 2008-8-9

附产品规格书 Enclosure is the specification

深圳市国冶星光电子有限公司 SHENZHEN GUOYEXING OPTOELECTRONICS CO., LTD.			
生产部 Production Dept.	质量部 Quality Dept.	工程部 Engineering Dept.	市场部 Marketing Dept.

客户确认签名 APPROVED SIGNATURES			

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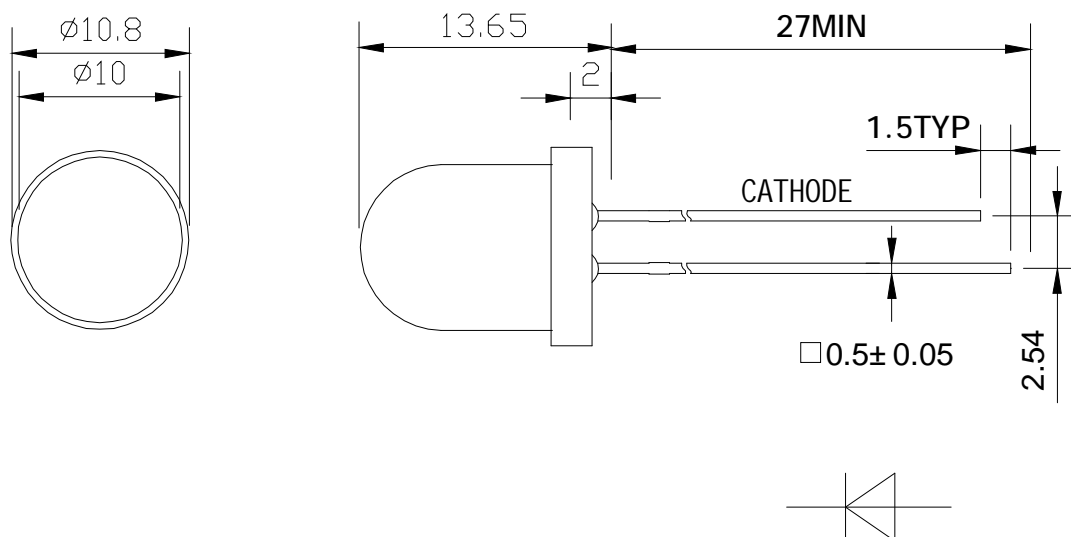


GL-900URCC RED(红色)

1. Features (特征)

- 1) 10mm DIAMETER LAMP
(Φ10 发光二极管)
- 2) LOW CURRENT REQUIREMENT
(低电流驱动)
- 3) LOW POWER CONSUMPTION
(低功率消耗)
- 4) VERSATILE MOUNTING ON P.C. BOARD PANEL
(易安装)
- 5) LONG LIFE-SOLID STATE RELIABILITY
(寿命长)

2. Package Dimensions(封装尺寸)



Notes:

1. All dimensions are in millimeters.
(单位: 毫米)
2. Tolerance is ± 0.25 unless otherwise noted.
(尺寸公差: ± 0.25 ,另有标注除外.)
3. Specifications are subject to change without notice.
(规格若有变动,恕不另行通知.)
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RED (红色)



3. 注：此页参数仅对样品，出货范围参照最后一页

Part No. (产品型号)	Chip Material (晶片材质)	Emitting Color (发光颜色)	Lens Type (胶体颜色)	Iv(mcd)@20mA (发光强度)			Viewing Angle (发光角度)
				Min. (最小值)	Typ. (规格值)	Max (最大值)	2 θ 1/2 (角度)
GL-900URCC	AlGaInP	Red(红色)	Water Clear (无色透明)	2384	3100	4030	18°

Note:

θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

(θ 1/2 是指当亮度减到一半时与发光特性曲线相交所对应的角度值.)

4. Electrical / Optical Characteristics at TA=25° C(25° C 环境下之电性/光学特性)

Parameter(参数)	Symbol (符号)	Min. (最小值)	Typ. (规格值)	Max. (最大值)	Units (单位)	Test Conditions (测试条件)
Forward Voltage (正向电压)	V _F	1.7	1.9	2.5	V	I _F =20mA
Peak Wavelength (峰值波长)	λ _p	625	630	635	nm	I _F =20mA
Dominate Wavelength (主波长)	λ _D	615	620	625	nm	I _F =20mA
Spectral Line Half-width (带宽)	Δ λ	-	17	-	nm	I _F =20mA
Reverse Current (反向电流)	I _R	-	-	10	uA	V _R =5V

5. Absolute Maximum Ratings at TA=25° C(在 25° C 环境下之最大绝对额定值)

Parameter(参数)	Symbol(符号)	Maximum Rating(最大值)	Units(单位)
Power dissipation(功率消耗)	P _d	75	mW
Forward Current(正向电流)	I _F	30	mA
Peak Forward Current (1)(正向电流峰值)	I _F (Peak)	130	mA
Reverse Voltage(反向电压)	V _R	5	V
Operating Temperature(操作温度)	T _{opr}	-40° C To +80° C	
Storage Temperature(贮藏温度)	T _{stg}	-40° C To +80° C	
Lead Solder Temperature(2)(焊接温度)	T _{sol}	260° C for 3 seconds	

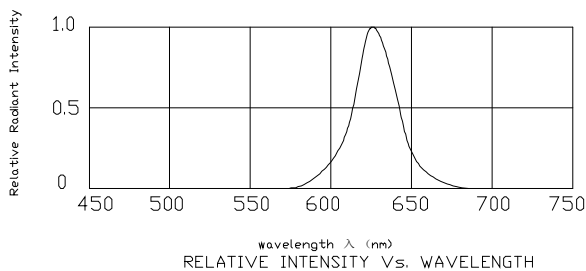
Note:

- 1) 1/10 Duty Cycle, 0.1ms Pulse Width.
(1/10 周期, 0.1ms 脉宽)
- 2) 3mm below package base.
(在胶体 3 毫米以下焊接)
- 3) The production accord with the demand of ROHS.
(此产品符合 ROHS 要求.)

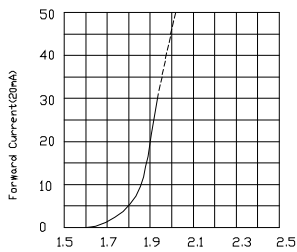


Relative Intensity Vs Wavelength Chart

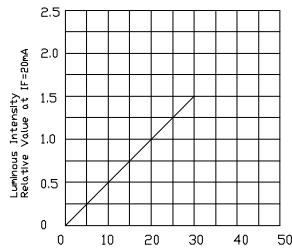
(相对亮度与波长关系曲线图)



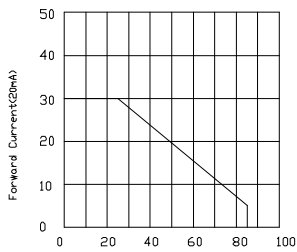
(红色 GL-900URCC)



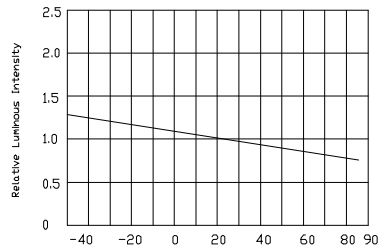
正向电流与正向电压关系曲线图



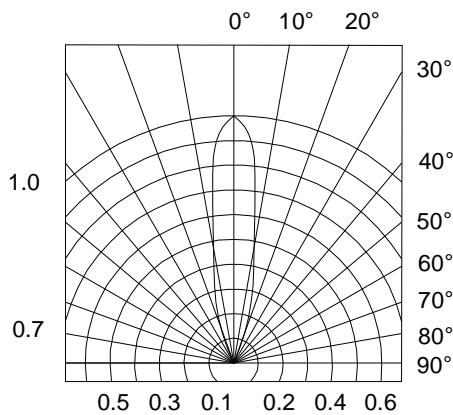
亮度与正向电流关系曲线图



正向电流递减曲线图



亮度与环境温度关系曲线图





RELIABILITY (可靠性)

(1) TEST ITEMS AND RESULTS (测试项目及结果)

类别 Type	测试项目 Test Item	测试条件		备注 Note	取样数 Sample size	允收数 Accept
		Test condition(二/三元)	Test condition(四元)			
环境测试(Environments Sequence)	冷热冲击 Thermal shock	-20℃~80℃ 15min, 15min	-40℃~100℃ 15min, 15min	循环 100 次 100 cycles	20~560	0
	回流焊	195℃~240℃ 5min		循环 1 次 1 cycles	20~560	0
	波峰焊	240℃~260℃ 5sec		循环 1 次 1 cycles	20~560	0
寿命试验 (Operation Sequence)	常温寿命测试(L.F) Life test	Ta=25℃ If=20mA	Ta=25℃ If=20mA	1000Hrs	20~560	0
破坏性试验(Destructive Sequence)	墨水渗透实验	Ta=25℃ 红墨水		60 minutes	20	0



Intensity And Color Bin Limits(亮度及波长等级)

(1)Intensity Bin Limits (If=20mA)

SELECTION CODE FOR SUPER BRIGHT LEDS		
Group	Light intensity in mcd(20mA) Super Bright Red	
	Min.	Max.
W	2005	2605
X	2605	3385
Y	3385	4400

Tolerance for each Bin limit is $\pm 10\%$

(2)Color Bin Limits (If=20mA)

COLOR CODE FOR RED LEDS + DISPLAYS		
Group	Dom. WaveLength (nm)	
	min.	max.
F2	615	620
G2	620	625
H2	625	630

Tolerance for each Bin limit is ± 1 nm.

Forward Voltage Bin limits(If=20mA)< V_F 值等级 >

Grade (等级)	A3	B3	C3	D3	E3
Range (范围)	1.6-1.8	1.8-2.0	2.0-2.2	2.2-2.4	2.4-2.6

Tolerance for each Bin limit is ± 0.05 v.