Sample Admit Books
(样品承认书)

Customer
(客户名称) : _____

Part NO.
(产品型号) : **33*33-5w-1B12C (822)**

Description ON
(产品描述) : **6000K-6500K**

Date
(日期) : 2024-10-8

Customer Affirm (客户确认)			Jiangmen Yifan Photoelectric Technology Co., Ltd (江门市熠凡光电科技有限公司)		
Approve (核准)	Assessor (审核)	Affirm (确认)	Approve (核准)	Assessor (审核)	Produce (制作)
客户确认：□合格 □不合格			2024-10-8		

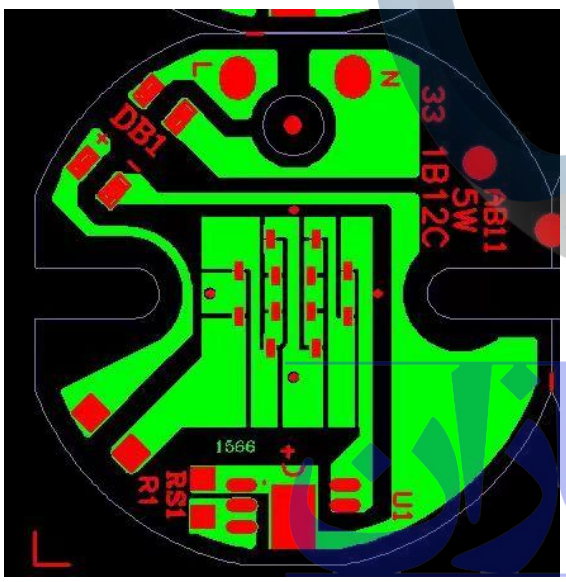
■ Feature
(特 性)

◆ Superexcellent heat conduct design
(优良的热传导设计)
◆ Super long lifetime：30000HRs
(超长寿命：30000 小时)
◆Lowest thermal resistance:2℃/W
(最低热阻:2℃/W)
◆Max junction temperature: 120℃
(最高节温:120℃/W)
◆Ultraviolet
(防紫外线)

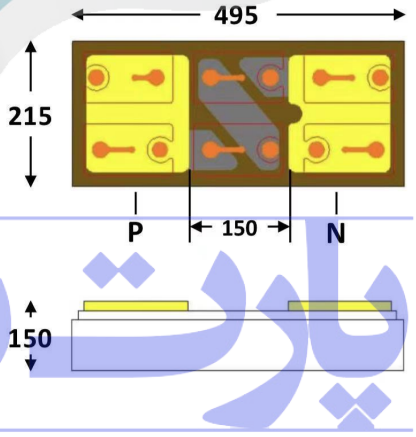
■ Applications
(应 用)

◆ General Linghting
(普通照明)
◆ Display lighting
(展示照明)
◆Landscape Lighting
(景观照明)
◆ Roadway lighting
(道路照明)
◆ Join and type, personal lighting
(携便式、个人照明)

■ Package Dimensions
(外观尺寸)



基板外观尺寸图



芯片外观尺寸图

Notes:

[1]. All dimensions are in millimeters.
(所有尺寸以毫米为单位)

[2]. Tolerance is ±0.25 unless otherwise noted
(未标注公差为：±0.25)

■ Electrical/Optical Characteristics (At T_A=25°C)
(光 电 参 数)

Parameter (参数)	Symbol (符号)	Conditions (测试条件)	Min. (最小值)	Avg. (平均值)	Max. (最大值)	Units (单位)
Luminous Flux (发光亮度)	Φ	I_F=25mA	60	--	70	Lm/W
Color Temperature (色温)	TC	I_F=25mA	6000	--	6500	K
Forward Voltage (正向压降)	V_F	I_F=25mA	219	--	220	V
Thermal Resistance Junction To Board (热 阻)	$R\Theta_{J-B}$	I_F=25mA	- -	2	- -	°C/W
Reverse Current (反向漏电流)	I_R	V_R=5V	- -	- -	10	μA
Viewing Angle [1] (发光角度)	$2\Theta_{1/2}$	I_F=25mA	- -	120	- -	Deg
CRI (显色指数)	Ra	I_F=25mA	70	--	73	--

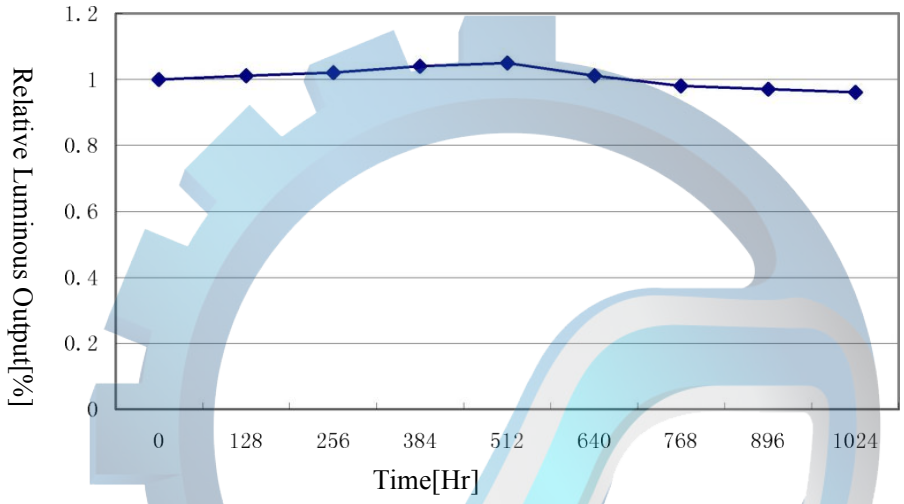
■ Absolute Maximum Rating(At TA=25°C)
(极 限 参 数)

Parameter (参数)	Symbol (符号)	Ratings (数值)	Units (单位)
Power Dissipation (功率)	P_D	5	W
Continuous Forward Current (正向输入电流)	I_F	25	mA
LED Junction Temperature (结点温度)	T_J	110	°C
Reverse Voltage (反向电压)	V_R	250	V
Operating Temperature Range (工作温度)	T_{OPR}	-30°C To +70°C	
Storage Temperature Range (储存温度)	T_{STG}	-40°C To +100°C	
Manual Solding Temperature (手工焊接温度)	T_{SOL}	350°C± 20°C For 3~5 Seconds	

Room Temperature Operating Life Reliability Test Result

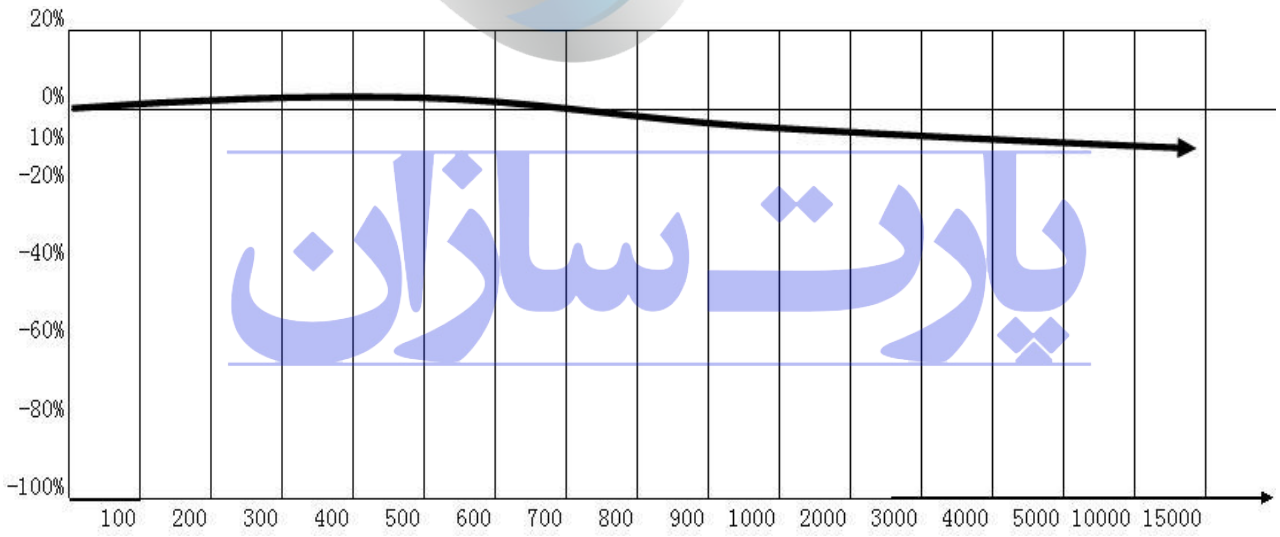
常温点亮信耐性结果

(Ta=25°C,Tj=50℃，If=25mA)



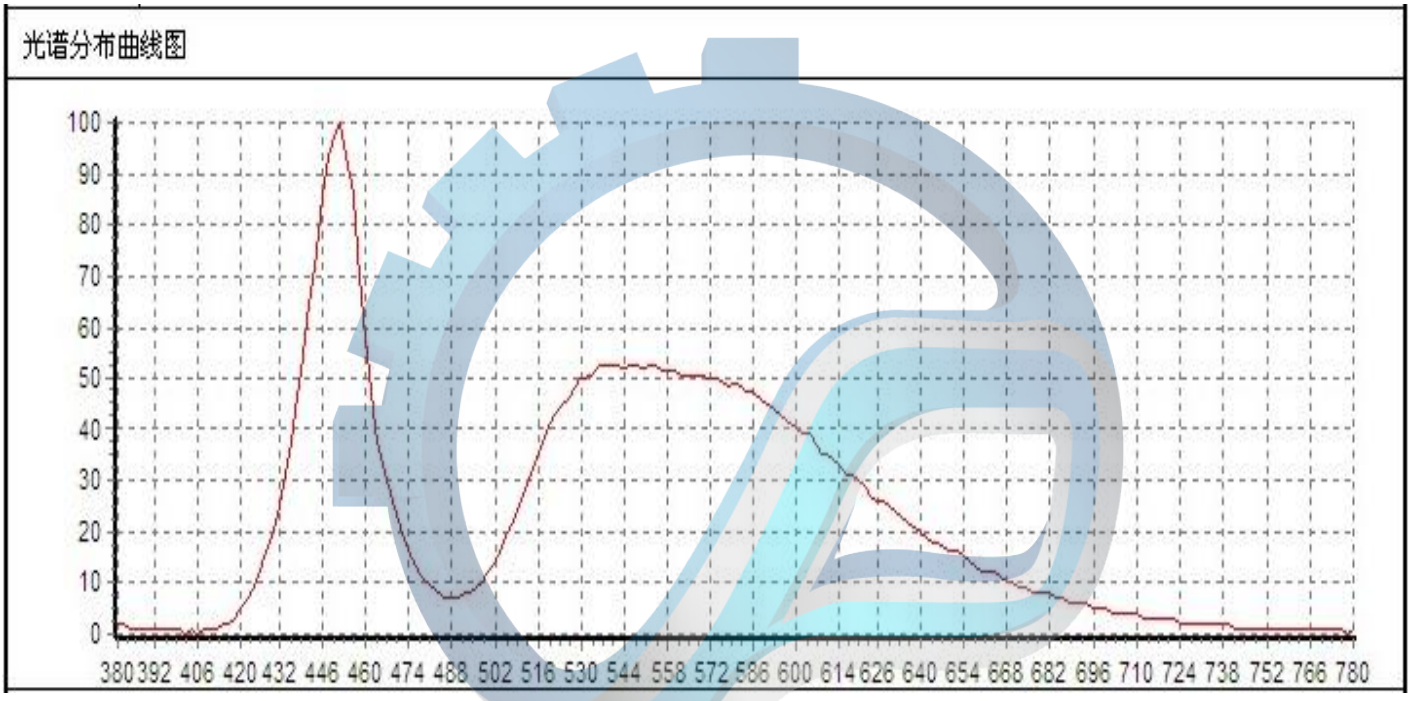
2000HR 2％ degradation2000 小时衰减 2%)

Life Time graph (使用寿命)



15000HR 10％ degradation (15000 小时衰减 10%)

■ Typical Electro-Optical Characteristic Curve



■ RELIABILITY (可靠性)

Reliability test items and conditions (可靠性试验标准)

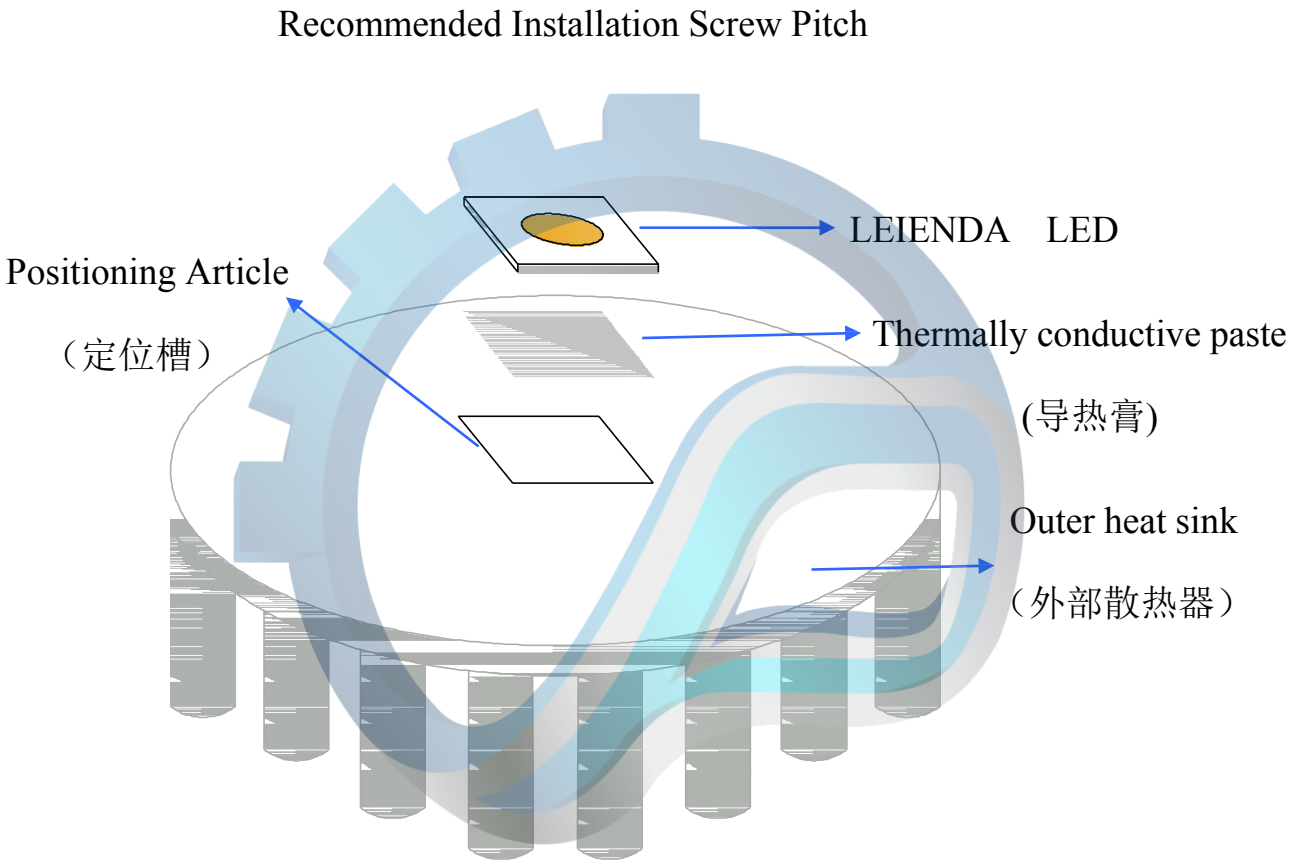
序号 Items	试验项目 Test Item	试验条件 Test Conditions	取样数量 QTY Of Sanple	Ac/Re
1	常温试验 Test under room temp	测试电流 25 mA Test I_F=25mA 温度:室温 Temp:Room temperature 测试时间:1000 小时 Test time=1000hrs	10	0/1
2	高温高湿 High Temperature High Humidity	温度 75℃ Temp=+75℃ 湿度 75% RH=75%HR 测试时间：1000 小时 Test time=1000hrs	10	0/1
3	冷热冲击 Thermal Shock	-40℃~+100℃ 15min~15min 测试 500 回合 Test time=500cycles	10	0/1
4	高温贮存 High Temperature storage	高温 100℃ High temp=+100℃ 测试时间：1000 小时 Test time=1000hrs	10	0/1
5	低温贮存 Low Temperature storage	低温-40℃ Low temp=-40℃ 测试时间：1000 小时 Test time=1000hrs	10	0/1
6	温度循环 Temperature Cycle	-40℃ ~ +100℃ 30min 5min 30min 测试 500 回合 Test time=500cycles	10	0/1
7	耐焊性 Reflow Soldering	操作条件：Operation heating 最高温度 260 度，最大时间 10 秒 260℃（Max），within 10sec（Max）	10	0/1

Judgment criteria of failure for zhe reliability (可靠性判断标准)

序号 ITEMS	项目/Item	符号 Symols	测试条件 Test Conditions	判断标准 Criteria
1	正向电压 ForwardVoltage	VF	I_F=25mA	初始值±10%
2	光通量 Luminous Intensity	Φ_V	I_F=25mA	平均衰减≤10%
3	可焊性 Solderability	--	--	沾锡面积达 95%以上

■ Product installation diagram

（产品安装示意图）



Precaution for use (防护措施)

1. Storage 储存

To avoid moisture, we recommend storage conditions for the unopened LED +5 ~ +30 °C, rela-tive humidity <60%. LED should be used within 168 Hrs. of opening the package. Please make sure to dehumidify and vacuum pack the remaining/ unused LED. Dehumidifying condition: +120 ° C ± 5 ° C, 04 Hrs. Effective age for the sealed led is one year. 为避免受潮的影响，我司建议产品在未开包装前储存条件为 5-30°C，相对湿度小于 60%。已开包装的 LED 光源请在 168H 内使用安装完毕，如未用完之产品，请进行除湿并抽真空后密封保存。除湿条件：120°C±5°C，4H。产品密封保存有效使用期为一年。

2.The soldering precautions 组装注意事项 ：

Soldering conditions: Reflow soldering is not recommended for this LED. If hand soldering, set sol-dering iron temperature at 350° C and soldering time not More than 5 seconds, after the first soldering, make sure the substrate surface temperature returns to ambient temperature before a second soldering. Please make sure when soldering, there is no external force on the soldering surface and silicon batardeau (such as pressure, friction or sharp metal nails, etc.), to avoid gold wire deformation or dam-age and other abnormalities. If beyond recommended conditions, we cannot guarantee the LED stability, please do the risk assessment first.

During assembly, please ensure that a good quality thermal paste is applied and distributed evenly over the surface. While using thermal pad (Heat Sink), make sure LED is firmly tightened and there is no gap between surfaces. In such heat-media products, through a pressure test of at least 500 volts.

焊接条件：此产品不推荐使用回流焊接的作业方式，手工焊接烙铁温度设定 350℃，焊接时间不可超过 5 秒，第一焊点焊接后请确保基板表面温度恢复到环境温度，方可进行第二次的焊接。焊接时请注意不可有外力作用于胶体表面及外圈的围坝胶上（如压力，摩擦或锋利金属钉等），以免造成金线变形或断线等异常；如果超 出此使用条件，金光原照明将不能保证产品的稳定性，如需使用超出的操作条件，请务必进行风险评。

为确保在组装时降低接触热阻，请注意导热膏涂布均匀且分布面积合理，不可出现导热膏太少或涂抹高低不 盯等现象。如使用导热胶垫时，请确保螺丝安装后基板与导热胶垫的完全接触，不可存在中空现象。产品在此 类耐热介质下，能通过至少 500 伏的耐压测试。

3. Anti-Static Measures 防静电措施：

Please take adequate measures to prevent electrostatic generation, such as wearing electrostatic ring or anti-static fingerstall etc; any relative products like plant equipment, machinery, carrier and transpor-tation units shall be connected to discharging unit/ ground. The ESD sensitivity of this product is > 1000V（HBM）, after assembly the final lamp, please make sure to discharge Static Electricity by proper ESD equipment.请采取足够的措施来防止静电产生，比如带静电环或防静电手指套等； 每个制造厂关于产品（工厂、设备、机器、载波机和运输单位）应当连接到底面，请避免产品电气带电；本产品的防静电敏感度超过 1000V（HBM），装配后的最终灯具产品（S）建议检查是否损坏 LED（漏电现象）

4、Temperature Control 温度控制

Recommended temperature conditions for enhanced product life: Be sure to TS point (negative pads) controlled below 75 ℃, The radiator temperature and the difference between anode plate welding temperature should not exceed 5℃ ,COB recommendation colloid surface temperature control ≤200 ℃.

保证散热前提条件为：请务必将 TS 点（负极焊盘）控制在 75℃以下，散热器温度与负极焊盘温度相差不能超过

5℃，建议 COB 胶体表面温度控制≤200℃。

5、The drive control 驱动控制

Drive this product at constant current. Output current range specifications should be ac-cording to the operational and other conditions, as mentioned in data sheet. Before using a constant voltage source or altered specifications other than recommended, please consider risk factors.

本产品需使用恒流源进行驱动，且输出电流符合规格书上的功率使用范围，如需使用恒压源或其他使用条件，请 进行使用效果风险评估。

6、Other 其他

Should the product be used outdoors, be sure to IP (protection class) ≥65

若本产品在户外使用，请务必将 IP(防护等级)≥65

Product is not suitable to use in following conditions

本产品不可在以下条件下使用，如果产品在以下条件下使用，评估其使用效果和风险是有必要的：

-Direct or indirect wet / damp conditions, such as rain, etc.;

-直接或间接的打湿或受潮，比如淋雨等；

-In contact with sea water and erosive materials

-被海水损害或侵蚀；

-Exposed to corrosive gases (e.g., Cl2, H2S, NH3, SOx, NOx, etc.);

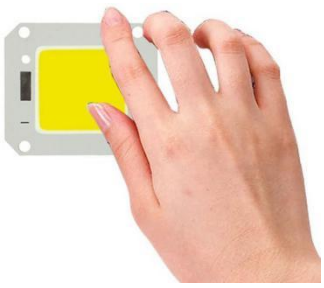
-被暴露于腐蚀性气体(如 Cl2,H2S、NH3、SOx、NOx 等)；

-It works at minus twenty degrees centigrade;

-零下二十摄氏度工作 ；

-Exposed to dust, liquids or oils.

-被暴露于粉尘、液体或油。



OK **NG**