



深圳市联佑光电技术有限公司

SHENZHEN LEARNEW OPTOELECTRONICS TECHNOLOGY CO.,LTD.
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产品规格书

SPECIFICATION

产品型号 Model. P/N NO.: LN-SMD6868UV-P4(60DEG)

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深圳市联佑光电		客户/Customer (加盖公章)		
技术部/TD		市场部/MKT Dept	公司名称/Customer name:	
制作 Maker	审核 Checked	业务员 Salesman	技术部 Technique department	采购部门 Purchasing Department

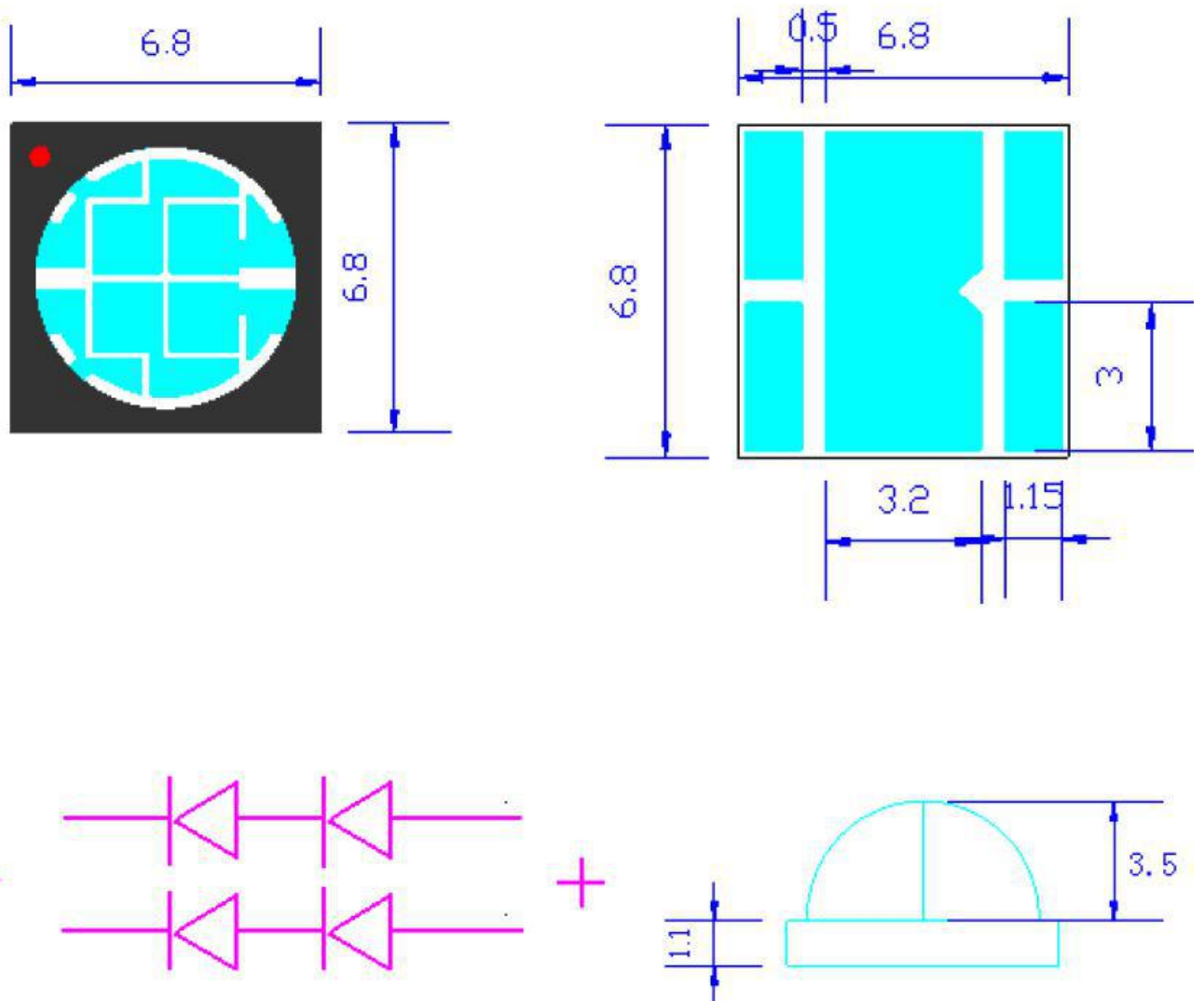


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1. 外形尺寸 Dimensions

单位(Units):毫米(mm)



备注/Postscript:

所有尺寸单位为 mm ， 如无特殊说明误差范围为 $\pm 0.05\text{mm}$

All dimensions are in mm tolerance is $\pm 0.1\text{mm}$ unless otherwise noted.



2. 光电特性 Electrical / Optical characteristics

(1) .极限参数 Absolute Maximum Ratings

项目/Item	符号/Symbol	数值/Value	单位/Unit
峰值电流 Peak Current	IF	2000	mA
工作温度 Operating Temperature	Topr	-40°C To +80°C	°C
结点温度 Junction Temperature	Tj	120	°C
储存温度 Storage Temperature	Tstg	-40°C To +100°C	°C
静电击穿电压 ESD Sensitivity	~	±2,000V HBM	V
反向电压 Reverse Voltage	VR	10	V
反向电流 Reverse Current	IR	10	uA
直流脉冲电 DC Pulse Current (@ 1 KHz ;1/10 Duty Cycle)	IFP	2000	mA
焊接温度 Soldering Temperature	Tsld	Reflow Soldering : 260°C Hand Soldering : 350°C	for 10sec. for 3sec.

(2) . 光电特性 Electrical / Optical characteristics

IF=1400mA Ta=25°C

项目 Item	符号 Symbol	最小值 Min.	规格值 Typ.	最大值 Max.	单位 Units	条件 Condition
正向电压 Forward Voltage	VF	6.4	--	8.0	V	IF=1400mA
正向电流 Forward Current	IF	--	1400	2000	mA	--
峰值波长 Peak wavelength	nm	365	--	395	nm	IF=1400mA
光功率 Optical power	P	3200	--	4000	MW	PW=365nm
		4000	--	4500		PW=385nm
		4100	--	5000		PW=395nm
发光角度 Viewing Angle	2θ1/2	--	60	--	deg.	IF=1400mA
热阻 Thermal Resistance	RθJ-B	--	4.0	--	°C/W	IF=1400mA



3.典型特性曲线/Typical Characteristic Curves

(1) .典型光谱分布

Typical spectral distribution

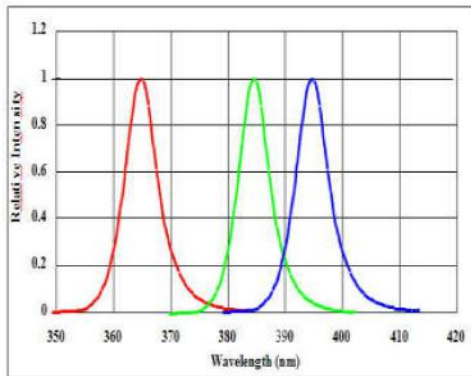
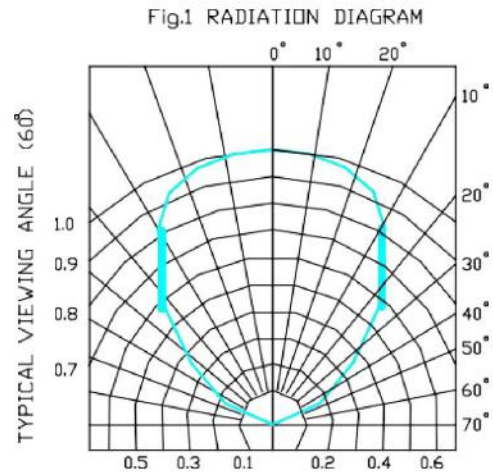


Fig. Typical Relative Intensity vs. wavelength

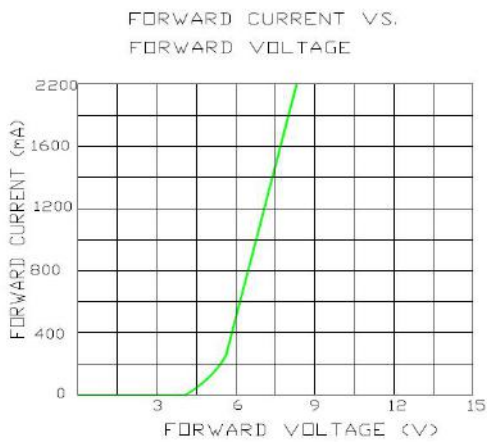
(2) .典型发光角度辐射图

Typical Light-Emitting Angle Radiation Pattern



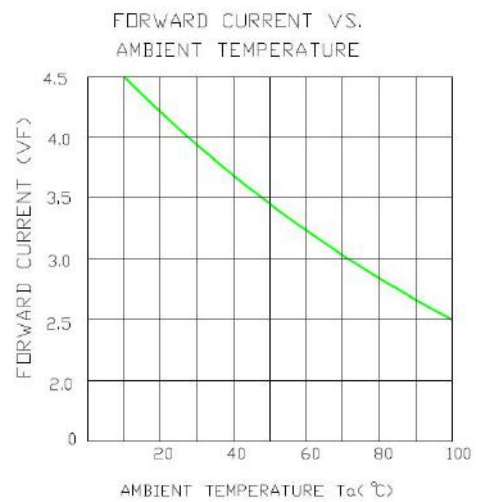
(5) .电性特征曲线图(Tj = 25°C)

Electrical Characteristics Curve



(4) .电压与温度曲线

Voltage vs. Temperature





4.注意事项/Cautions

(1) 焊接条件 Soldering Conditions

本产品建议最多只可回焊两次,且在首次回焊后须冷却至室温之后方可进行第二次回焊.

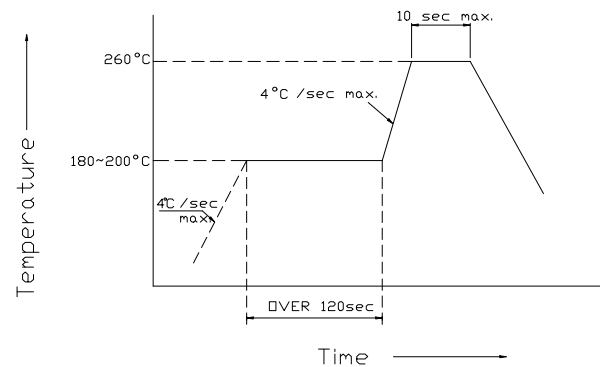
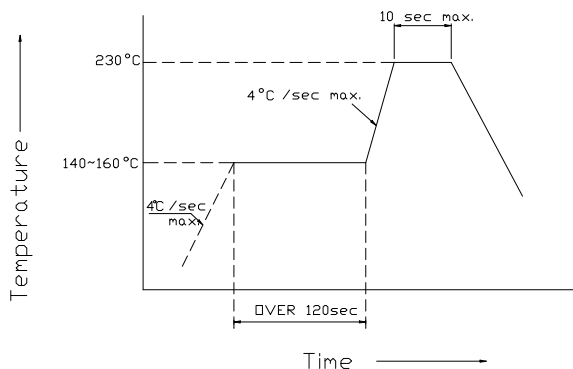
Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and Second soldering process.

推荐焊接条件(Recommended soldering conditions)

回流焊接 Reflow Soldering			手工焊接 Hand Soldering	
预热温度 Pre-heat	有铅 Lead Solder	无铅 Lead-free Solder	温度 Temperature	360°C Max. 3 sec. Max. (one time only)
预热时间 Pre-heat time	140 ~ 160°C 120 sec.	180 ~ 200°C 120 sec. Max.		
峰值温度 Peak temperature	Max. 230°C Max.	260°C Max.	焊接时间 Soldering time	
焊接时间 Soldering time	10 sec. Max.	10 sec. Max.		
条件Condition	参考下图	参考下图		

有铅回焊 (Lead Solder)

无铅回焊 (Lead-Free Solder)



(2) 防潮包装 Moisture Proof Package

使用防潮包装

It is recommended that moisture proof package be used .

(3) 储藏 Storage

打开包装袋之前,LED 在温度为 30°C 或更低湿度 60%RH 以下,可保存一年.

Before opening the package ,The LEDs should be kept at 30°C or less and 60%RH or less. The LEDs should be used within a year.

(4) 打开包装之后,应在 24hrs 内焊接完毕.

After opening the package, The LEDs should be soldered within 24 hours (1days) after opening the package.



(5)使用注意事项 Cautions:

5.1.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.

5.2 抽真空包装材料未超过 30 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:

5.2.1 在 24hrs 内未焊接完毕。

Soldered within 24 hrs

5.2.2 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℃ within and 60%RH below

5.2.3 存储低于 30%RH。

Stored in 30%RH for moisture below.

5.3.材料拆装后使用时间超过 24H 未用完, 需烘烤 75℃/3H 除湿后才可使用。

Products not be used after opening the package need to be dried out for 75℃/3H

5.4.此产品设计不针对下列任何条件, 如在下列任何条件下使用产品, 请确定其正常性能和可靠性;

如: 潮湿, 有露水凝霜, 盐水空气, 腐蚀性气体的地方 (C1,H2S,NH3,SO2,NOX,等); 太阳直晒下, 户外暴露, 多灰尘的地方。水中, 油, 医用液体和有机溶剂等。

This product design is not targeted at any of the following conditions, such as the use of the product in any of the following conditions, make sure the normal performance and reliability;Such as: wet with dew, frost, salt air, corrosive gases (C1, H2S, where NH3, SO2, NOX); Exposure to the sun under, Outdoor exposure, Dusty place. Water, oil, medical liquid and organic solvent.

5.5.如果 led 光源使用超出规定的正向电流或散热系统不够良好时, 有可能会增加产品失效率或衰减过高现象, 请使用合适的驱动电流和散热体, 以避免产品存在品质隐患。

If the LED light source used in excess of the prescribed forward current or cooling system is not enough good, may increase the product failure rate or attenuation phenomenon, please use the drive current and the radiating body fit, in order to avoid products are quality hidden danger.