



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-SMD3535UVC-P3D

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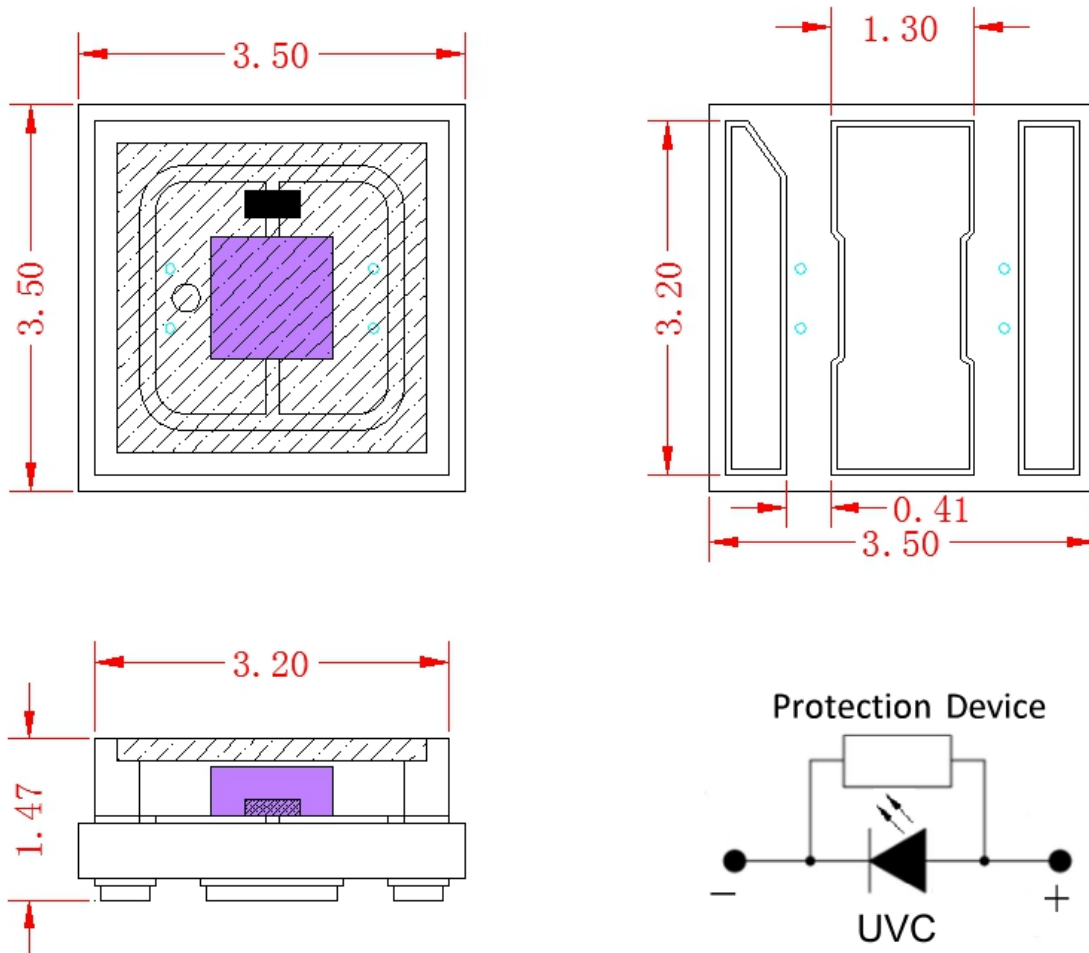
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1. 外形尺寸 Dimensions

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±0.05mm

All dimensions area in mm tolerance is ±0.1mm 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
正向电流 Forward Current	IF	400	mA
峰值电流 Peak Current	IFp	500	mA
工作温度 Operating Temperature	Topr	-40°C To +60°C	°C
结点温度 Junction Temperature	Tj	125	°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
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=350mA Ta=25°C

项目 Item	符号 Symbol	最小值 Min.	规格值 Typ.	最大值 Max.	单位 Units
正向电压 Forward Voltage	VF	5.5	--	8.0	V
波段 Spectrum	Nm	265	--	285	Nm
光功率 Radiant flux	Φ_e	50	--	70	mW
光功率密度 Optical power density	Ee	300	--	450	mW/cm ²
发光角度 Viewing Angle	2 $\theta_{1/2}$	--	120	--	deg.
热阻 Thermal Resistance	R θ J-B	4.7	--	6.9	°C/W

注释 Notes:

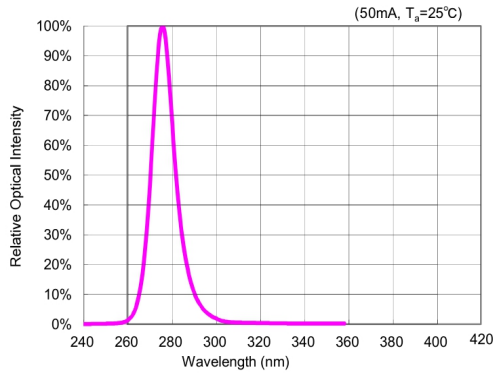
- 1.光功率密度值为产品发光表面测量值,仅供参考,实际到达应用受体表面光密度与应用条件有关; The value of optical power(radiant flux) here is surface measurement for reference,real value of optical power to the receptor's surface is related with use conditions.
- 2.应用过程中,本产品发出的深紫外应注意对眼睛的保护,必要的情况下请佩戴防紫外墨镜操作; As to protect your eyes in application process,anti-uv sunglasses may necessary in operating.



3.典型特性曲线/Typical Characteristic Curves

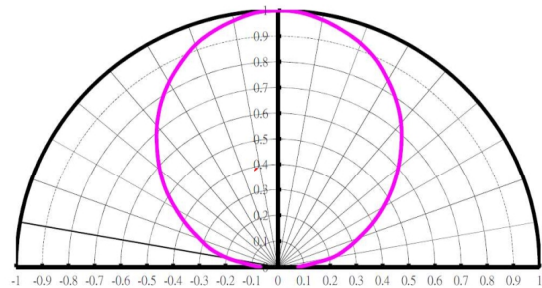
(1).典型光谱分布

Typical spectral distribution



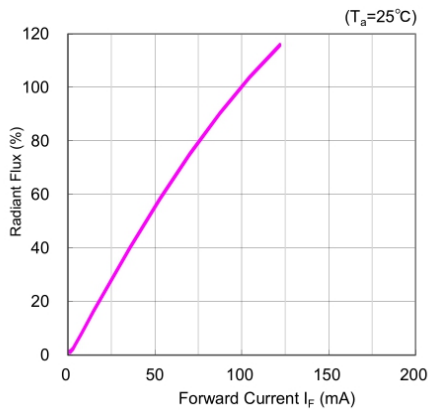
(2).典型发光角度辐射图

Typical Light-Emitting Angle Radiation Pattern



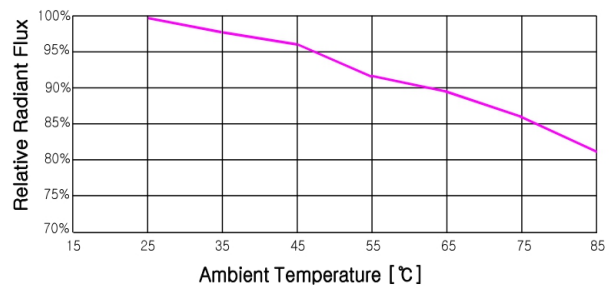
(3).正向电流与相对光通量曲线图

Forward Current vs. Relative Luminous Flux Curve



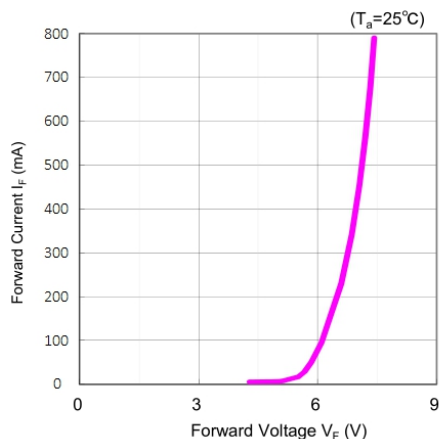
(4).输出光通量与温度曲线

Relative Flux vs. Temperature



(5).电性特征曲线图($T_j = 25^\circ\text{C}$)

Electrical Characteristics Curve





5.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.

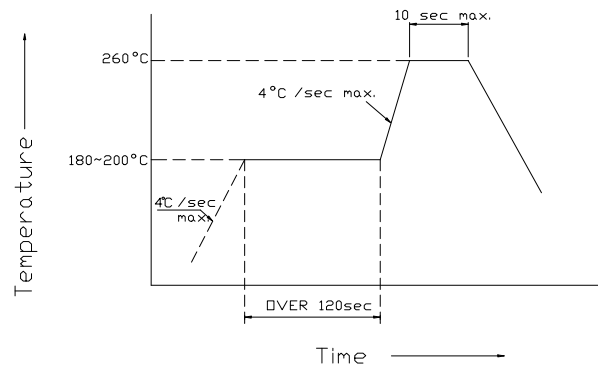
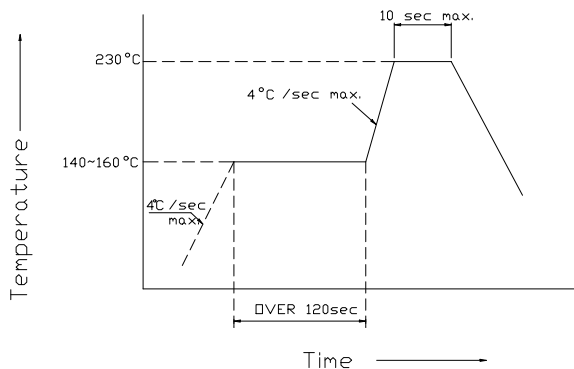
Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and Second soldering process.

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 预热时间 Pre-heat time 峰值温度 Peak temperature 焊接时间 Soldering time 条件Condition	有铅 Lead Solder 140 ~ 160°C 120 sec. Max. 230°C Max. 10 sec. Max. 参考下图	无铅 Lead-free Solder 180 ~ 200°C 120 sec. Max. 260°C Max. 10 sec. Max. 参考下图	温度Temperature 焊接时间Soldering time 350°C Max. 3 sec. Max. (one time only)

有铅回焊 (Lead Solder)

无铅回焊 (Lead-Free Solder)



(2) 储藏 Storage

LED 在温度为 30°C 或更低湿度 60%RH 以下,可保存一年.

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



(3)使用注意事项 Cautions:

6.1.产品为石英玻璃封装，禁止有外力在产品表面产生压力

The product is sealed with quartz glass, no external force is allowed to produce pressure on the product surface

6.2 因产品使用功率较高，应特别注意使用过程中对基板温度的管控，必须做好散热处理，建议在满负荷使用时保证基板温度在 70°C 以内；

Special attention and control the temp of the substrate in using process, Good heat treatment is necessary due to the high power, Ensure substrate temp below 50C in full load use.

6.3 本产品必须使用横流电源驱动；

This product must be driven by constant current power supply.

6.4.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（Cl, H₂S, NH₃, SO₂, NO_x, 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 (Cl, H₂S, where NH₃, SO₂, NO_x); Exposure to the sun under, Outdoor exposure, Dusty place. Water, oil, medical liquid and organic solvent.

6.5.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.

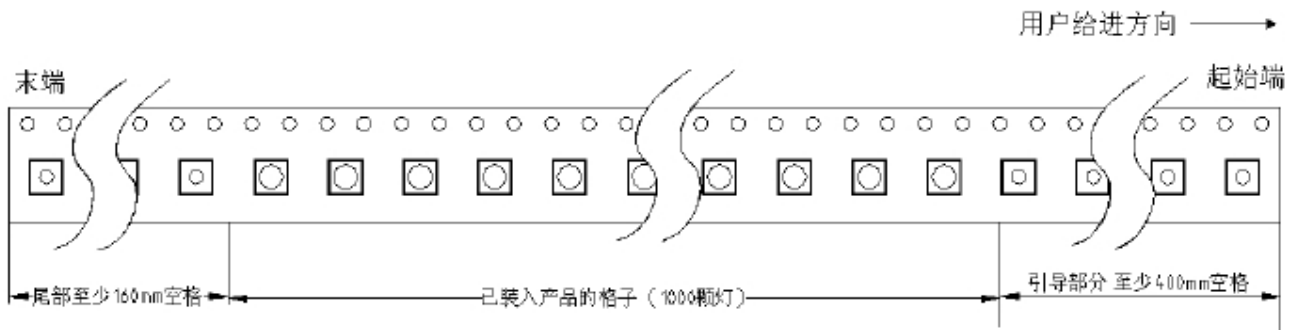
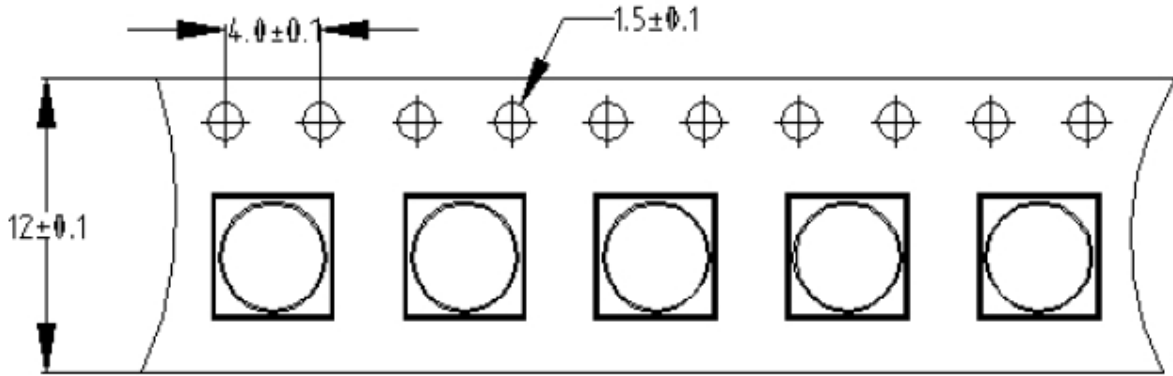


6. 包装/Packaging

(1).装带规格 Taping Specifications (单位:毫米 Units:mm)

包装规格

包装方式: 7英寸卷盘包装 (包装数量: 4000 pcs) □ 载带尺寸图



卷盘尺寸图

