Specification
规格书

Customer Name: _____
客户名称

Customer P/N: _____
客户品号

Product P/N: GM-150P395-42C1C6-S1D5B
产品型号

Sending Date: _____
供货日期

○ Technical Reference 技术参考			○ Sample 样品		■ Mass Product 量产供货
Customer approval 客户审核			GM approval 光脉审核		
Approved 核准	Audit 确认	Confirmation 制作	Approved 核准	Audit 确认	Confirmation 制作
		WL			
○ Qualified 接受		○ Disqualified 不接受	Date: 日期:		







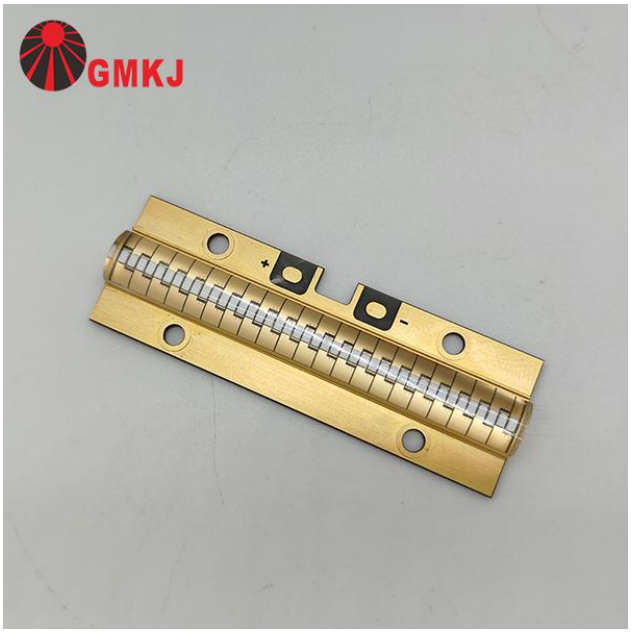
ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE DEVICES

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■ Features 产品特征：

- low voltage operation 低电压工作
- Instant light 瞬间点亮
- Long operating life 超长工作时间

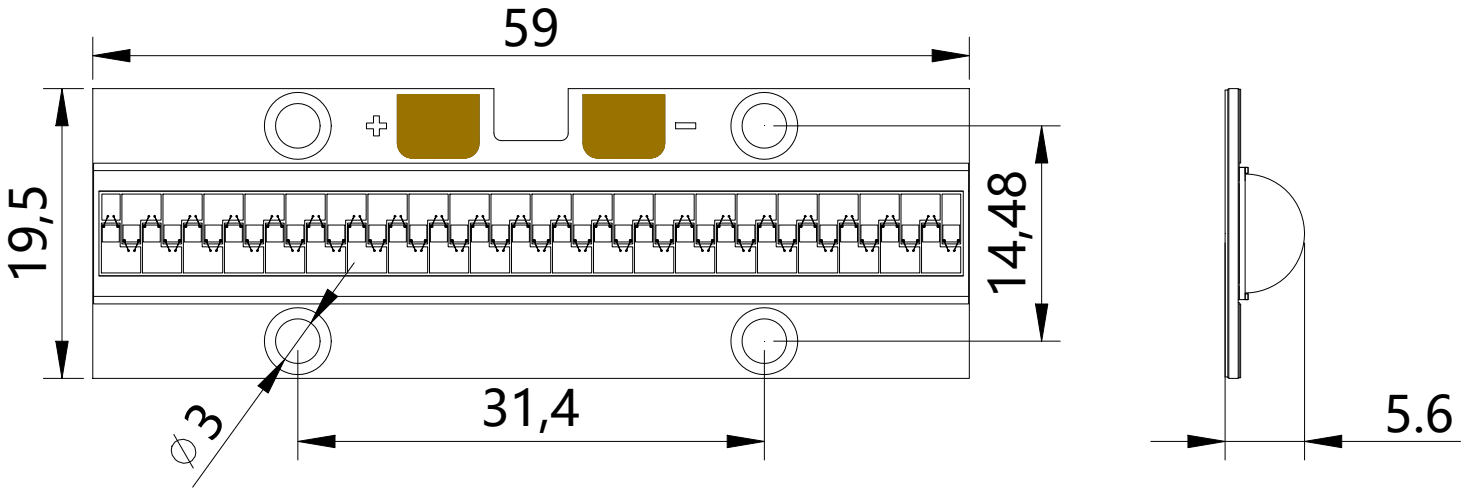


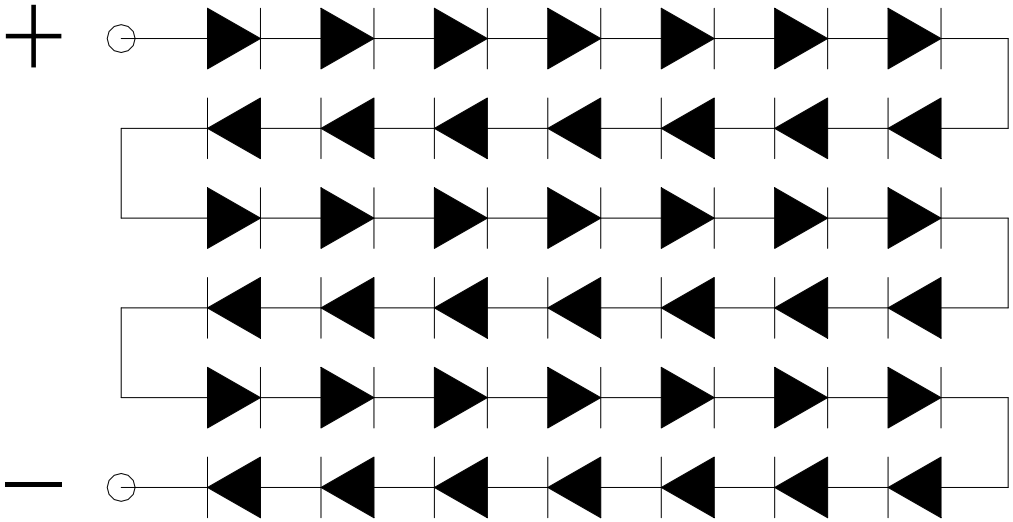
■ Applications 产品应用：

- Disinfection and sterilization 消毒杀菌
- UV curing UV 固化
- Nail beauty 美甲美容

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■ Package Dimensions 封装外形尺寸





Notes: All dimensions in mm tolerance is ±0.1mm unless otherwise noted.
除非另有说明，以上尺寸以 mm 为单位，公差在±0.1mm。

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■ Absolute Maximum Ratings(At TA =25℃) 极限参数

Parameter	Symbol	Rating	Unit
DC Forward Current (正向电流)	I_F	1000	mA
Peak pulse Current* (脉冲电流)	I_{FP}	1500	mA
Power Dissipation (功率)	P_D	150	W
Reverse Voltage (反向电压)	V_R	210	V
Reverse Current (反向电流)	I_R	10	μA
Operating Temperature Range (工作温度)	T_{OPR}	-40～+85	°C
Storage Temperature Range (储存温度)	T_{STG}	-40～+100	°C
LED Junction Temperature (结点温度)	T_J	120	°C

Note: 备注

1. 1/10 Duty cycle, 0.1ms pulse width. 脉宽 0.1ms,周期 1/10。
2. Care is to be taken that power dissipation does not exceed the absolute maximum rating of the product. 使用功率不能超过规定的最大值。
3. When the LEDs are in operation the maximum current should be decided after measuring the package temperature, junction temperature should not exceed the maximum rate. LED 使用最大电流需根据散热条件确定，结温不能超过最大值。

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■ Electrical/Optical Characteristics--White (At T_A=25°C) 光电特性参数

Parameter	Symbol	Conditions	Min	Avg.	Max	Units
Forward Voltage （正向压降）	V_F	I_F=700mA	135	--	150	V
Radiant Flux （光功率）	Φe	I_F=700mA	40000	--	50000	mW
Peak wavelength （峰值波长）	λp	I_F=700mA	395	--	400	nm
Thermal Resistance Junction To Soldering Pad （热阻）	$RΘ_{J-S}$	I_F=700mA	--	3	--	°C/W
Viewing Angle [1] （发光角度）	$2Θ_{1/2}$	I_F=700mA	--	60	--	Deg

Attention:

Such UV LED modules needs to be cooled by cold water system!

Note:(备注)

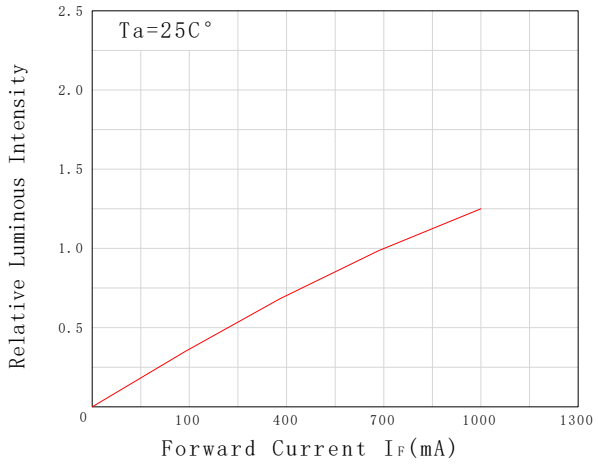
1. The above forward voltage measurement allowance tolerance is ±0.1V。
以上所示电压测量误差±0.1V
2. The above luminous flux measurement allowance tolerance is ±10%。
上述发光通量的测试允许公差为±10%
3. The above Color Rendering Index measurement allowance tolerance is ±2。
以上显色性指数的测试允许公差为±2
4. The above color coordinates measurement allowance tolerance is ±0.003。
以上所示坐标测量误差 ±0.003。
5. 2θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value。
2q1/2 是半值角,指光强是光学中心线光强的 1/2 处到光学中心线的角度

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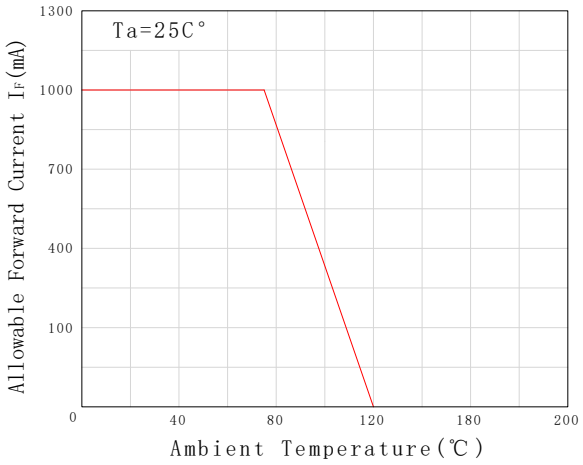
■ Typical Optical/Electrical Characteristics Curves 典型光电参数曲线

(Ta=25℃ IF=700mA Unless Otherwise Noted)

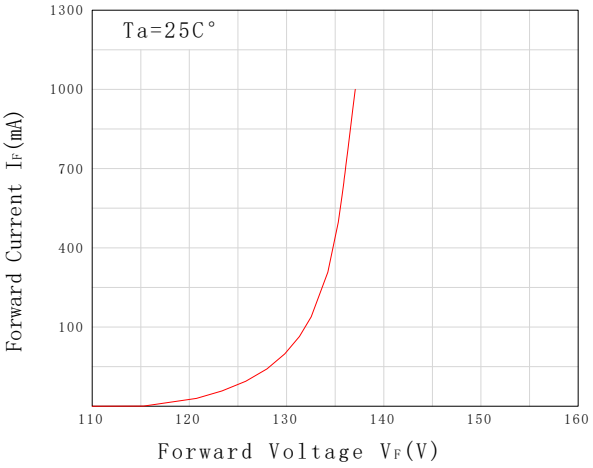
Relative Luminous Intensity - IF



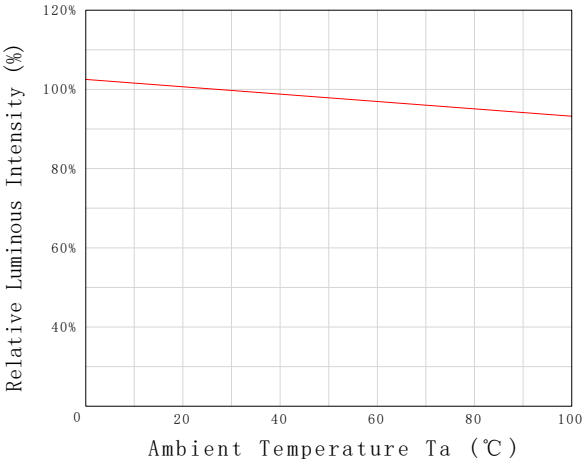
Allowable Forward Current - Ta



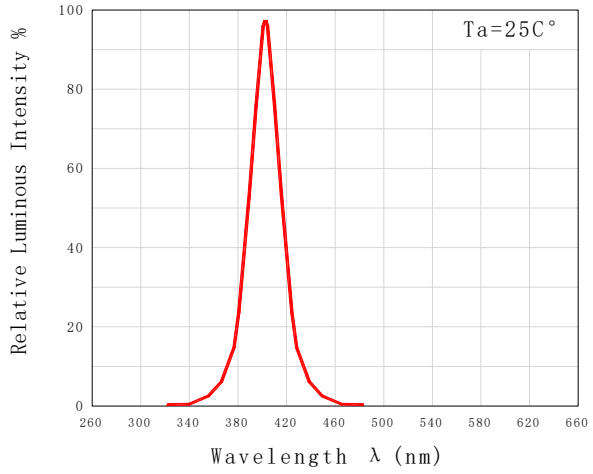
IF - VF

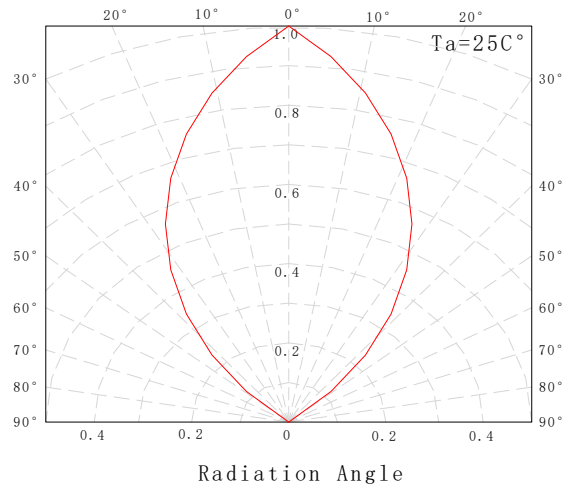


Relative Luminous Intensity - Ta



Wavelength Characteristics





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■Product specification 产品使用说明

一、Storage/use 储存/使用：

1.In order to avoid moisture absorption, it is suggested to store the products in a drying cabinet with desiccant. The storage temperature is 5℃~30℃, and the humidity is ≤60%HR 为避免吸潮建议将产品贮存在放有干燥剂的干燥柜中，贮存温度为：5℃~30℃，湿度：≤60%HR。

2. After storage for six months, it is recommended to re-use the spectral separation to prevent changes in photoelectric parameters 储存六个月之后建议重新分光分色后使用，防止光电参数发生变化。

3.It is recommended to dry products that have been sealed and stored for more than six months before use. The drying condition is 65℃±5℃ for 10 hours 密封储存六个月以上的产品使用前，建议干燥，干燥条件为：65℃±5℃10 个小时。

4.The product shall be used within 24h after opening, otherwise it shall be baked at 65℃ for 4-6h before reflow welding 产品开封 24h 内需使用完毕，否则需 65℃ 烘烤 4-6h 后再过回流焊。

5. Do not press the gel surface with any sharp object (such as tweezers).Do not leave fingerprints on the surface of the colloid.The positive normal pressure of the colloid should be less than 2 newtons and the number of press should be less than 3 times.The lateral pressure of the lens body is less than 1.5 newtons and the number of press is less than 3 times.Pick up materials correctly (as shown below)请勿以任何尖锐物体（例如镊子）按压胶体表面。请勿在胶体表面留下指印。胶体正面法向承受按压力需小于 2 牛顿，按压次数小于 3 次；透镜体侧面承受按压力小于 1.5 牛顿，按压次数小于 3 次。

二、Products should not be in contact with water, oil or organic solutions。产品不得接触水、油、有机溶液。

三、The operating current value of the product should consider LED junction temperature 产品使用工作电流大小值应考虑 LED 结温。

四、Repackage unused products in moisture-proof bags and store in a dry place 重新包装未使用的产品置防潮袋密封好之后贮存在干燥的地方。

五、External dimensions are subject to change without prior notice 产品外观尺寸可更改而不另行通知。

六、Anti-static requirements: when using products, must wear anti-static ring or anti-static gloves, all equipment, devices, machines must be effectively grounded. This product belongs to electrostatic sensitive device, pay attention to anti-static protection!防静电要求：使用产品时，必须戴防静电环或防静电手套，所有设备、装置、机台必须有效接地。该产品属于静电敏感器件，注意做好防静电保护！

七、When LED working, push the temperature of PCB board should not exceed 60℃.当 LED 工作时，推存 PCB 板的温度不要超过 60℃。

八、Anti - vulcanization, chlorination, bromination and other treatments 防硫化、氯化、溴化等处理：In the closed, high temperature environment, the lamp may contain sulfur/chlorine/bromine and other substances, these sulfur, chlorine and bromine elements will volatilize into gas and corrosion LED light source. Because the LED seal silica gel has porous structure, and the light source silver plating reaction occurred. After curing reaction of LED light source, the functional area of the product will darken, the luminous flux will gradually decline until it becomes slightly bright, and the

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color temperature will drift obviously, and the LED light source will eventually fail. It is recommended to conduct sulfur emission test of lamps first to ensure that LED light source works in sulfur-free/chlorine/bromine and other material environment.在密闭、高温的环境中，灯具内可能含硫/氯/溴等物质，这些硫、氯和溴元素会挥发成气体并腐蚀 LED 光源。因为 LED 封密硅胶具有多孔性结构，与光源镀银层发生硫化反应。LED 光源出现硫化反应后，产品功能区会黑化，光通量会逐渐下降直至微亮，色温出现明显漂移，LED 光源最终会失效。建议先进行灯具排硫测试，确保 LED 光源在无硫/氯/溴等物质环境进行工作。

九、When the customer applies LED, it shall refer to the parameters of this specification and the requirements of operating environment. If the LED is used beyond the parameters or standard conditions without verification, our company will not make any quality guarantee。客户在应用 LED 时，需参考此规格书参数及使用环境要求，未经验证情况下超出参数或标准条件使用，我司不作任何品质担保。

十、Other points for attention,please refer to our LED user manual.其它注意事项请参照我们的 LED 使用手册。

■Declare 申明

This specification is written both in English and in Chinese and the latter is formal。
此规格书以中英文方式书写，若有冲突以中文版本为准。

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