产品规格书
（SPECIFICATION）

CUSTOMER(客 户):_____

PRODUCT NUMBER (产品型号):_____3W45mil purple light_____

DESCRIPTION(产品描述):_____

ORDER DATE(送样日期):_____2021/07/17_____

制表	李强
审核	
核准	
日期	2021/07/017

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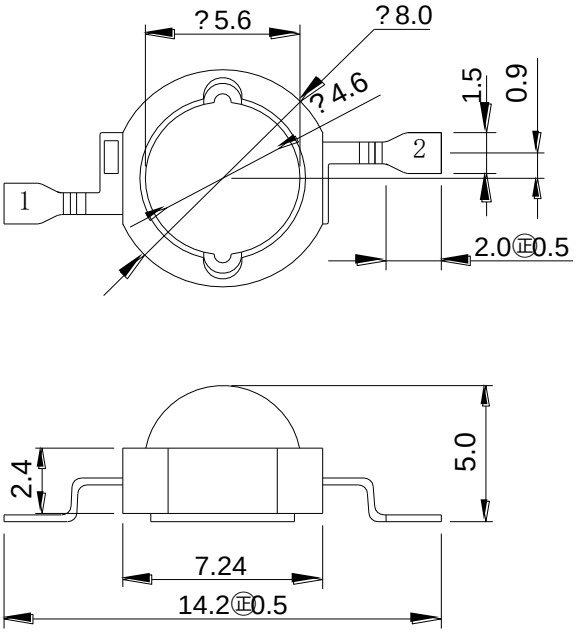
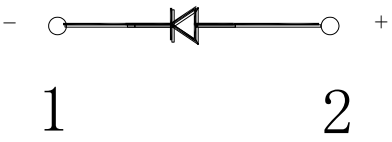
※ Description of packaging materials

Item	Material specification
Chip material	GaN/InGaN
Phosphor material	YAG
Packaging material	Silicone
Bracket pin material	Copper alloy coated with silver
Plastic stent	Polyphthalamide

※ Size specification marking:





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Note: The size unit is mm, and the size difference range is ±0.25mm

※ Photoelectric parameters （TA=25ºC）:

Parameter	Symbol	Min.	Medium	Max.	Unit	Conditions
Forward voltage	V_F	3.2	3.4	3.6	V	IF= 650mA
Luminous flux	ϕ_V	40	/	45	LM	
Related band	TC	395	/	405	NM	
Light Angle	$2\theta^{1/2}$	-	140	-	deg	
Reverse current	IR	0		5	uA	VR=5 V

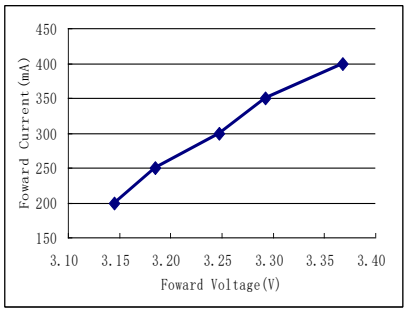
Remark: 1.2$\theta_{1/2}$ Referring to the Angle between the direction where the luminescence intensity value is half of the axial intensity value and the luminescence axial direction (normal), called $\theta_{1/2}$， 2 times $\theta_{1/2}$ is the Angle of view (or half-power Angle).

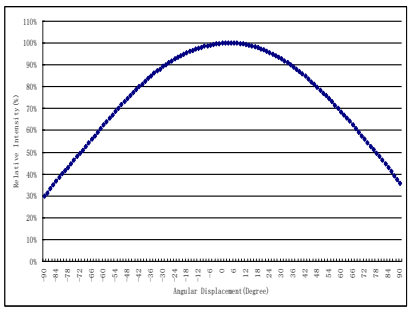
※ Limit parameter （TA=25ºC）

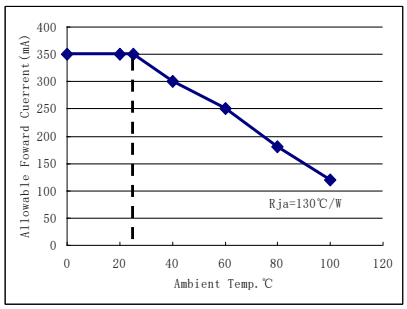
Item	Symbol	Parameter	Unit
Drive current	I_F	**700**	mA
Power	P_D	3	W
Junction temperature	T_j	125	℃
High temperature lenses withstand temperature	T_{opr}	220	℃
Operating temperature range	T_{opr}	-30~+85	℃
Storage temperature range	T_{stg}	-40~+100	℃

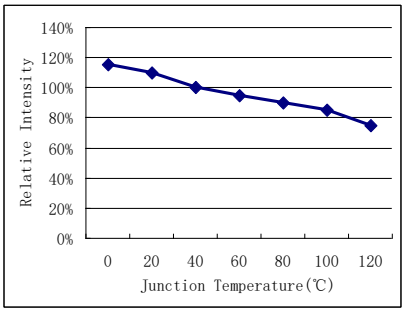
Remark:
1. Luminous intensity error ±10%
2. Forward voltage error ±0.1V
3. CIE color coordinate test error ±0.005

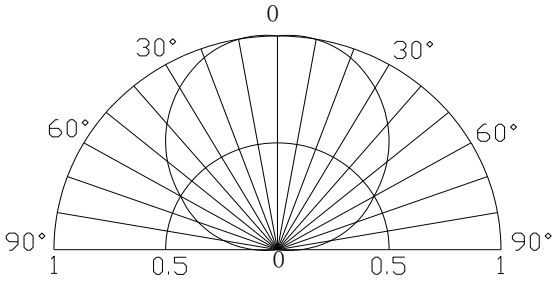
※ **Photoelectric characteristic curve**（IF= 700 mA）（**TA=25ºC**）：











※Usage instructions and parameters:

Item	Parameter description
Aluminum heat sink	**The heat dissipation surface area must be large enough to ensure that the temperature of the aluminum substrate does not exceed 60℃**
Antistatic force	**The human body model 2.4V**
Soldering iron welding temperature	**300℃ In less than 3 seconds**
Reflow soldering temperature	**180±5℃(Maximum temperature zone temperature, maximum temperature zone welding time 3-6 seconds)**
Temperature	**Storage temperature -30℃~85℃**
Humidity	**10%~90%**
Corrosion resistance	**Stronger**
Waterproof level	IP30

※ Precautions for product use

Condition:

The operating conditions must be within the rated parameters.

Installation:

When installing lamps and lanterns, do not burn the luminous layer of the product with a high temperature iron to avoid dead lights or affect the luminous effect.

Static electricity:

Static electricity or surge voltage can disable the product. It is recommended that you wear an ESD wrist strap or ESD gloves when using the product. All devices, devices, and machines must be grounded. Precautions are recommended to prevent the surge voltage generated by the device from acting on the product. When assemble into finished products inspection by a single product, test each product is destroyed by static electricity, examination may be held by a lamp test or in electricity shed is to the test voltage (current 90 ma, the most suitable), has been damaged products show is different from normal product features, such as forward voltage becomes lower down or in a small electric light.

Heat:

Heat dissipation design of terminal products is particularly important. Please consider the heat dissipation of the product. When designing the system, the increase of the temperature coefficient of the product with electrical power input is determined by the thermal resistance of the circuit board and the density of

the product on the circuit board and its original components. Therefore, it is necessary to avoid a large amount of centralized heat dissipation and strictly follow the parameters given in the specifications. Please decide to consider the current ambient temperature before using the current through each product and refer to the ambient temperature on the specification book vs. Forward current characteristics are allowed, while measures are taken to improve the operational characteristics of the product by dissipating heat around the product heat sink.