

承認書 Specification For Approval

C	Sustomer: (客	戶) ————			_
De	escription:	≦品描述) 	5MM草帽雾状共	 は以口RGB	_
Par	rt number:(產	E品型號) TJ-	L5FCMXHMCY	LCRGB-A5	_
	Date: (日:	期)			_
App	roved By: (2	客戶承認)			
Prep	pared By:(我司]承認)			
	Approval	Check	Design	Sales	
	核准	 審核	 製作	業務]

Customer Service Hotline: 400-676-8616

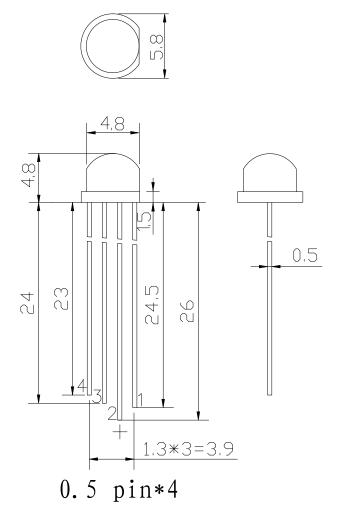
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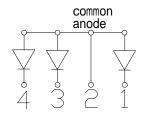
1. overview

- * Low power consumption
- * Low power
- * General equipment on the PCB board or panel
- * with ICSupporting the use/Low current requirement
- 2. Product appearance size figure

(unit:mm)



- 1、RED
- 2、COMMON
- 3、GREEN
- 4、BLUE



Note:

- 1: All dimensions are in millimeters (inches).
- 2: Tolerance is ±0.25mm (.010") unless otherwise noted.
- 3: Specifications are subject to change without notices.
- 4: This specification is for reference only for one year

4. parameter

4.1 The limit parameter (room temperature 25°C)

parameter	The numerical	Unit	
Dissipation power	320	mW	
Pulse current (1/10 work loops 0.1 millisecond pulse width)	100	mA	
Working current (IF)	30	mA	
Reverse voltage (VR)	5	V	
Working temperature range	−20°C ~ +80°C		
Storage temperature range	-30°C ~ +100°C		
Soldering temperature from the roots (4.0 mm)	260°C for 5 Seconds		

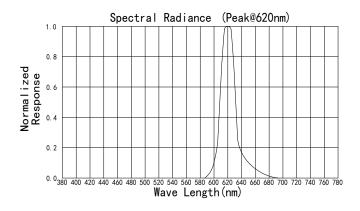
Photoelectric parameters At room temperature 25°C

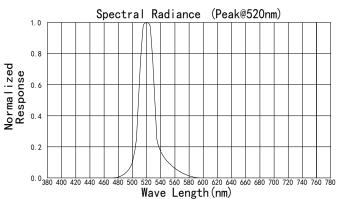
Parameter		min	Avg	max	Unit	Test Condition
	Red	200	500		mcd	If=20mA
Luminous intensity	Green	800	1500		mcd	If=20mA
	Blue	200	400		mcd	If=20mA
	Red	620		630	Nm	If=20mA
The wavelength(λ)	Green	515	525	530	Nm	If=20mA
	Blue	460		470	Nm	If=20mA
	Red	1.8		2. 4	V	If=20mA
electric voltage	Green	2.8		3. 4	V	If=20mA
	Blue	2.8		3. 4	V	If=20mA
Reverse current				5	μД	Vr=5V

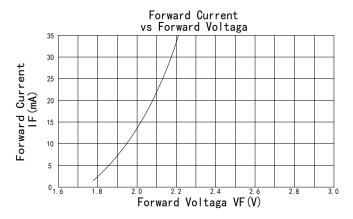
Selection Guide:

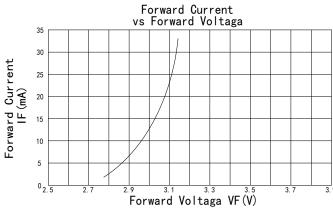
Colloid color	Chip			
	Material	Emitting light colors	λp (nm)	
White Diffused	GaASP/Gap	Red	620	
will te Dillused	InGaN/GaN	Blue	465	
	InGaN/GaN	Green	520	

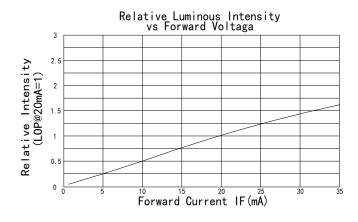
5. Under the condition of 25 $^{\circ}$ C electrical diagram:

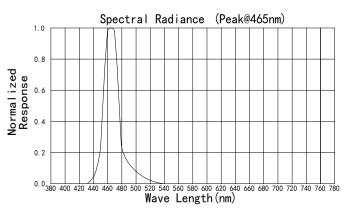












6. Not dry glue label

P/N: Product number

VF: Forward voltage

BIN: points light

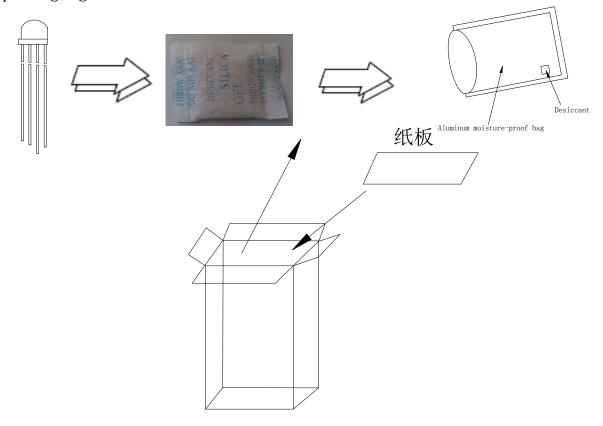
IV: Luminous intensity

WL: Color/wavelength

QTY: number

QC: Production order

7. packaging



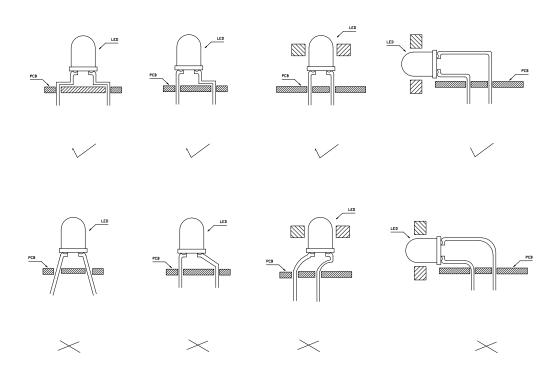
The packing way: Electrostatic bag packing

Packing specification: White light color packing 1000 PCS/bag, puguang 1000 PCS/bag o

Pay attention to: Above belongs to the normal packing specification, if you have any special requirements according to customer requirements

8. The cautions of stent deformation

Stent deformation must be conducted before welding, plastic, stent bend position must be at least 3 mm at the bottom of the encapsulating resin, at the same time, avoid bent many times on the same position. When the deformation, fixed bracket, please use the right tools to avoid resin pressure. Especially not as a pivot pin connected with the resin part, so the stress within the product on light emitting structure directly into damage, lead to the change of product features and even damaged. For the same reason, in the assembly of products, the distance between welding PCB hole must be in the pin spacing of the products strictly match, as shown in the figure below:



- $ec{}$ correct mounting methods
- × Incorrect mounting methods

9. Reliability of the experimental project and conditions

serial number	Test project	The test conditions	The sample quantity	Acceptance/ rejection
1	Life test	Test current: 20MA The temperature: 25°C The test of time: 1000 hours	20	0/1
2	High temperature high humidity(sta tic test)	The temperature: =+65°C humidity: 90% RH The test of time: 240 hours	20	0/1
3	Cold and hot shock	-30°C ~ +100°C 20min 10s 20min Test time: 100 loops	20	0/1
4	High temperature storage	The high temperature: 100°C The test of time: 1000 hours	20	0/1
5	Low temperature storage	The low temperature: -30°C The test of time: 1000 hours	20	0/1
6	Temperature loop	-30°C ~ +100°C 60min 20s 60min Test time: 20 loops	20	0/1
7	Reflow soldering	260°C (Max), the maximum of no more than 5 seconds	20	0/1

Reliability experiment unqualified judgement standard

IV: Attenuation is more than 30%

VF: Change is more than 20%

note:1) Same project the results of the test must be completed within 2 hours •

2) Testing must be completed in each experiment. Material return to normal conditions °

11. ESD protective

LED is a semiconductor device, the static sensitive, especially for white, green, blue, purple LED to make efforts to prevent electrostatic generation and eliminate static electricity \circ

11.1 The generation of static electricity

a. Friction: in daily life, any two objects of different material contact after the separation, can produce static, and the one of the most common method of generation of static electricity, is the electrification. The insulation material, the better, the easier the electrification. In addition, any two objects of different material contact again after separation, also can produce static electricity.

b. Induction: in view of the conductive material, because electrons can flow freely in its surface, such as to be put in the electric field, due to the same, opposites attract, the positive and negative ions will move, can produce electric charge on the surface °

c. Conduction: in view of the conductive material, because electrons can flow freely in surface, such as contact with a charged object, the charge transfer will occur °

11.2 The dangers of static electricity on the LED:

- a. For the moment's electric field or electric current produced by the heat, the LED local injury o
- b. Because of destruction of the electric field or current LED insulation layer, the device will not work (destroyed) characterized by death $lamp \circ$

11.3 Electrostatic protection and measures to eliminate

For the entire process (production, testing, packaging, etc.) all employees in direct contact with the LED to measures to prevent and eliminate static electricity, mainly:

- a. Laying anti-static workshop floor and well grounded •
- b. Workbench for esd workstation, production machines grounding is good •
- c. Operators wear anti-static clothing, anti-static hand ring, gloves or foot ring o
- d. Application of ion fan, the welding electric grounding measures •
- e. Packing with antistatic materials •