Data Sheet

Customer:

Part No: CL-3014IRC-1050-02

Sample No:

Description: 5Ø Lamp Red Color

Item No:

Customer			
Check	Inspection	Approval	Date

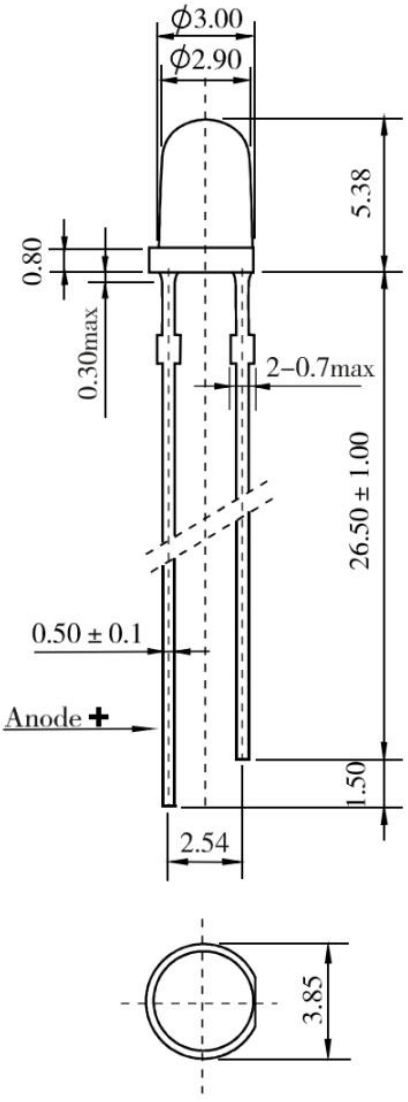
■ Characteristics

- Low Power LED
- 3mm Standard Directvity
- Clear Color Type
- 视角：15°（50%Power Angle：15°）

■ Purpose：

Traffic instructions, mobile phones, LCD backlights, mouse keyboards, automobile instrument lighting, and electronic products with surface plug-in structures are used for indication, lighting, and lighting.

■ Outline Dimension



Tolerance is ±0.1mm unless otherwise noted

■ Absolute Maximum Ratings at:(Ta=25℃)

Parameter	Symbol	Rating	Unit
Forward Current	IF	20	mA
Peak Forward Current Pulse Width=100,Dutycycie=1%	IFP	60	mA
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-40 to 85	℃
Storage Temperature	Tstg	-40 to 85	℃
Soldering Temperature	Tsol	260±5	℃
Power Dissipation	Po	60	mW

■ Typical Optical/Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max
Forward Voltage	VF(V)	IF=20mA	1.0	1.2	1.4
radiated power	Po(mw)	IF=20mA	3.0	-	-
Wavelength	λp(nm)	IF=20mA	1040	1045	1055
Reverse current	IR(ua)	Vr=5V	0	0.1	10
Viewing Angle	2θ1/2(deg)	IF=20mA	13	15	17

■ Note

1. Led bracket forming method

（1）The pin of led can be bent where is at least 2mm out of led colloid.

（2）Must use fixture to deform the led bracket.

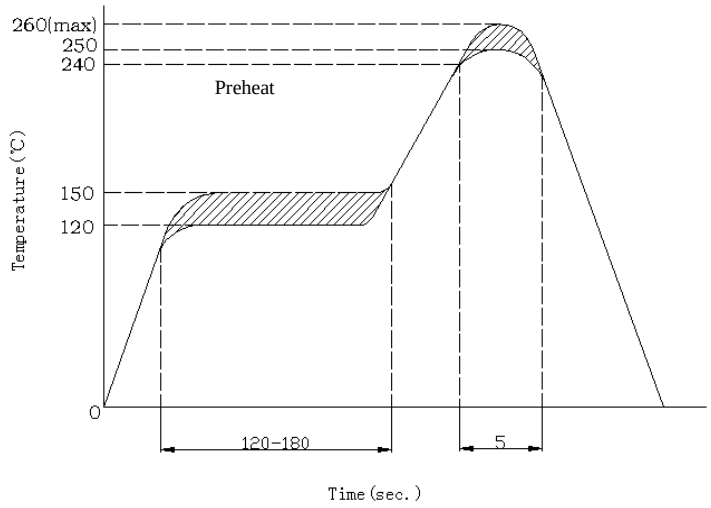
（3）Finishing the forming of led bracket must be before soldering.

（4）Guarantee the gap between two pin of led tallys with LED pads in PCB when forming.

2. Manual soldering

The tip temperature of soldering iron don’t exceed 260℃; soldering time don’t exceed 3s and soldering position must be 3mm out of led colloid。

Soldering temperature curve chart (figure A、figure B)



A 图

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3. ESD countermeasure

Static electricity and high volt can damage led, The production whose Die material is InGaN must strictly required to prevent ESD, Must put on static glove and static fillet, Soldering tool and the cover of device must connect the ground,soldering condition follows the related stating of production specification manual。

4. Protecting countermeasure when over current

Need add the protecting resistor in circuit in order to avoid damaging led due to big current and voltage fluctuation。

5. LED installation method

1）Pay attention to the led polarity and avoid installation wrong。Led can’t be close to euthermic component, work condition should tally with it’s specification。

2）Don’t install the LED under the condition of the led pin deformation。

3）The led bracket don’t load any pressure when installing the led into PCB or fitting hole。

4）Must avoid any strike and force on led before the soldering temperature return to room temperature。

6. Storage time

1）Led can be stored for a year under the condition: the temperature of 5℃～35℃ and humidity of RH60%, These production must be re-inspected and tested before use if their storage time Half a year。

2）If led is exposed in air for a week under the condition: the temperature of 5℃～35℃, humidity of RH60%, must place the led in the ambience of 65℃±5℃ for 24 hours and use it in a Weeks for best。

7. Cleaning

Be careful of some chemical results in the led colloid fades and damage when using chemical clean the led, such as chloroethylene, acetone etc。 can use ethanol to wash or soak led but the time don’t exceed 3 minutes.

8. Kinked

The kinked tooling scrape easily the pin of led, where the led bracket is rusting easily, especial expose it in moist air. To decrease the led bracket rust, advise using plated tin led bracket.

■ Packing

(1) Remark：Decide detail packing box according to customer order or actual status。