



深圳市像素之光科技有限公司 iPixel LED Light Co. , Ltd

Add: 7F, Mingjinhai Complex Building, Tangtou Rd, Shiyan Town, Baoan, Shenzhen, China. 518108
Tel: 0086-755-85257292 Web: www.ipixelleds.com E-mail: inquiry@ipixelleds.com

DESCRIPTIONS:

- 3.2x1.6x0.8mm SMD LED
- Emitting Color: Pink
- Lens Color: Red Fluorescent

CUSTOMER:_____

MASON P/N:C1206PF

CUSTOMER P/N:_____

CUSTOMER APPROVED SIGNATURES

APPROVRD BY	CHECKED BY



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PRELIMINARY SPEC

3.2x1.6X0.8mm SMD CHIP LED

PART NO: C1206PF

pink



ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING

ELECTROSTATIC DISCHARGE
SENSITIVE DEVICES

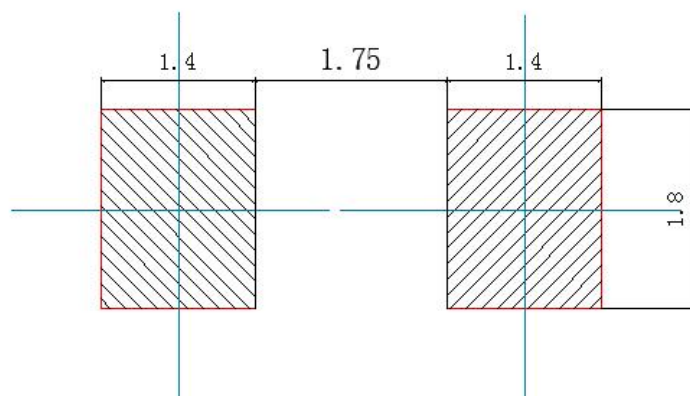
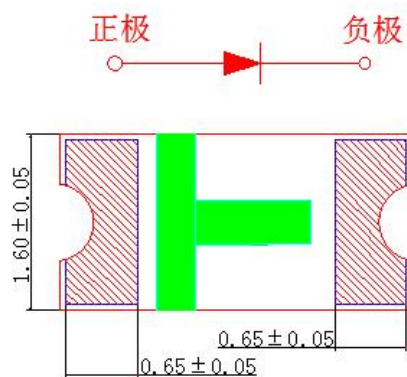
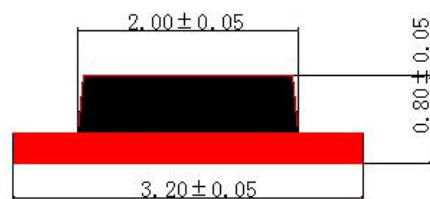
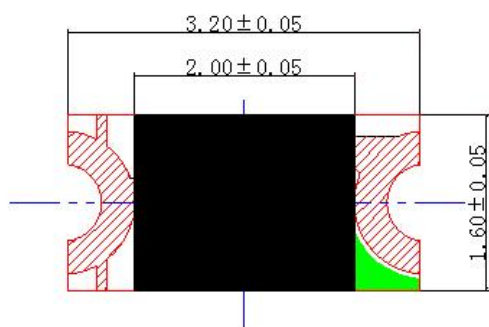
Features

- 3.2mmx1.6mm SMT LED, 0.8mm THICKNESS.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE : 3000PCS / REEL.
- RoHS COMPLIANT.

Applications

- Automotive: backlighting in dashboard and switch.
- Telecommunication: indicator and back-lighting in telephone and fax.
- Flat backlight for LCD switch and symbol.

◆ Package Dimensions



Notes:

1. All dimensions are in millimeters.
2. Tolerance is ± 0.15 unless otherwise noted.
3. Specifications are subject to change without notice.



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◆ Device Selection Guide

Part No.	Chip		Lens color
C1206PF	Material	Emitted color	Red Fluorescent
	(InGaN)	Pink	

◆ Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	Value	Unit
Power Dissipation	PD	100	mW
Forward Current	IF	20	mA
Peak Forward Current*1	IFP	100	mA
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-40°C To +85°C	
Storage Temperature	Tstg	-40°C To +85°C	
Reflow Soldering temperature	Tsol	250±5(for10sec)°C	
Manual welding Temperature	Tsol	300±5(for4sec)°C	

Notes:

*1: Pulse width≤0.1ms, Duty cycle≤1/10

2: (Product is highest resistant to 265°C reflow but suggested the highest temperature of 250°C within) 产品最高可耐 265°C回流焊，但建议最高温度设为 250°C)

◆ Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min	typ	Max	Unit	Test Conditions
Forward Voltage	VF	2.6	—	3.0	V	IF=5mA
Reverse Current	IR	—	—	10	μA	VR=5V
Chromaticity Coordinates	X	—	0.43	—		IF=5mA
	Y	—	0.235	—		
Luminous Intensity	IV	100	—	250	mcd	IF=5mA
Viewing Angle	2θ1/2	—	90	—	Deg.	IF=5mA

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or chromaticity), the typical accuracy of the sorting process is as follows:

1. Chromaticity Coordinates: ±0.01
2. Luminous Intensity: ±15%
3. Forward Voltage: ±0.1V



◆ Typical Electrical/Optical Characteristics Curves

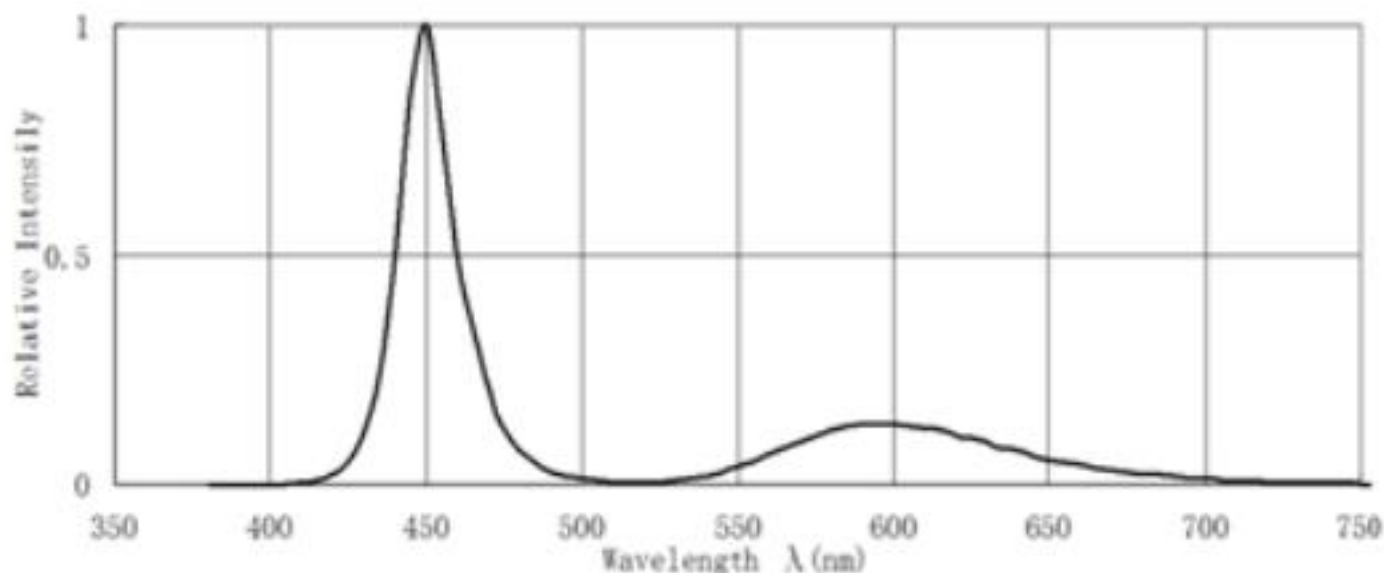


Fig. 1 Relative Intensity vs. Wavelength

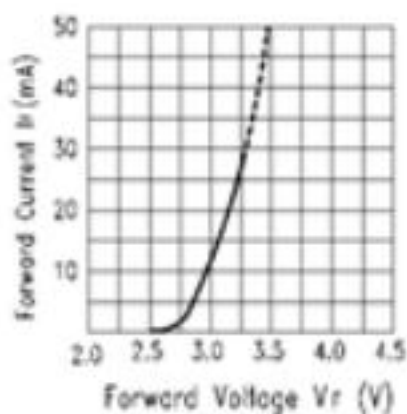


Fig. 2 Forward Current vs. Forward Voltage

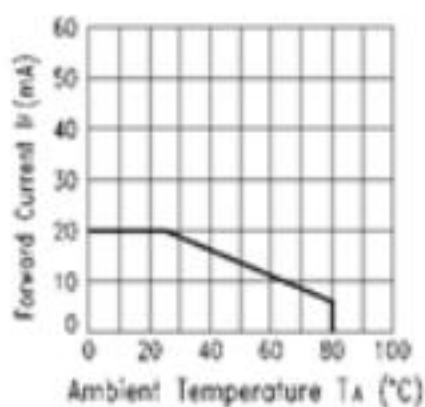


Fig. 3 Forward Current Derating Curve

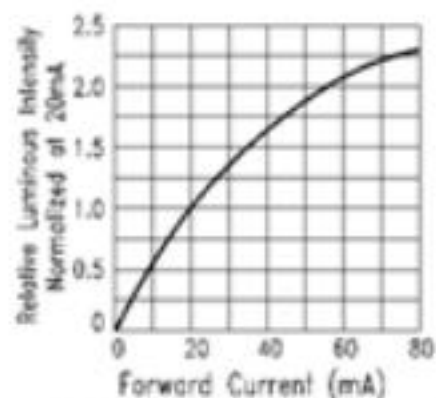


Fig. 4 Relative Luminous Intensity vs. Forward Current

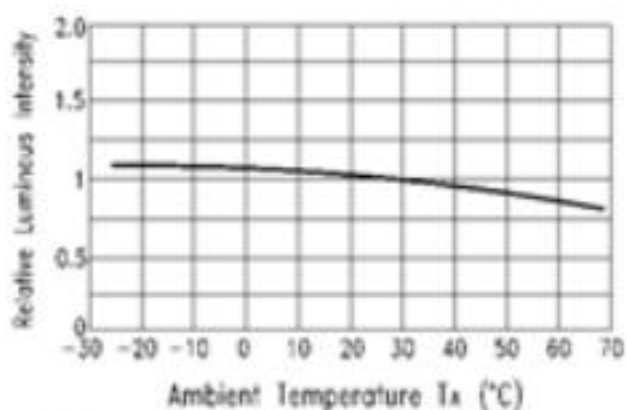


Fig. 5 Luminous Intensity vs. Ambient Temperature

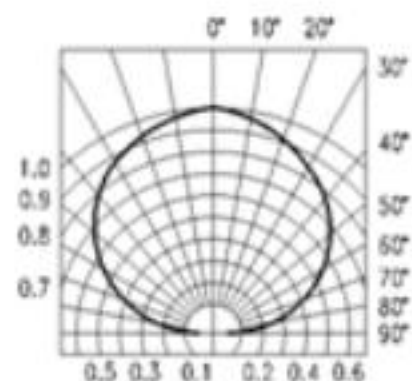


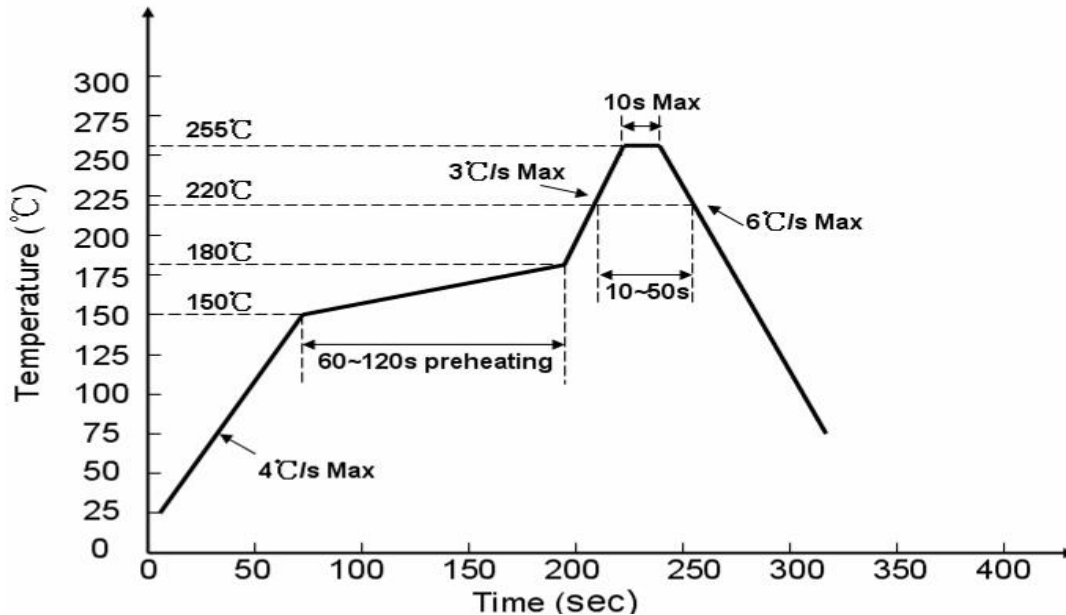
Fig. 6 Spatial Distribution



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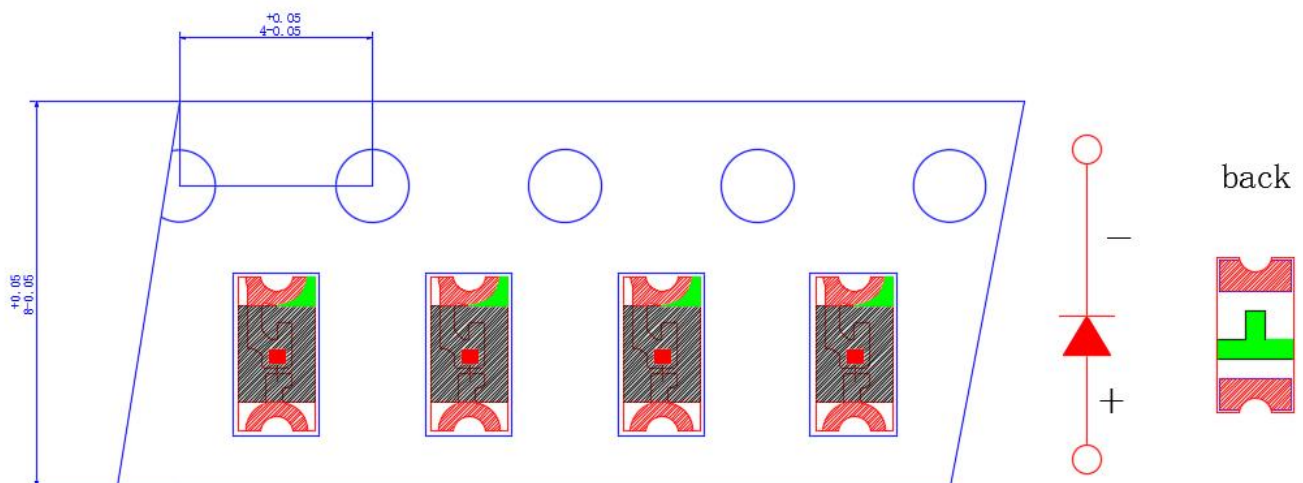
◆ Soldering Profile



Lead process

◆ Tape specifications

(Units:mm)





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◆ VF Rank

Rank	VF		Condition
	MIN	MAX	
2.6-2.7	2.6	2.7	IF=5mA
2.7-2.8	2.7	2.8	
2.8-2.9	2.8	2.9	
2.9-3.0	2.9	3.0	
3.0-3.1	3.0	3.1	

Tolerance:±0.05V

◆ IV Rank

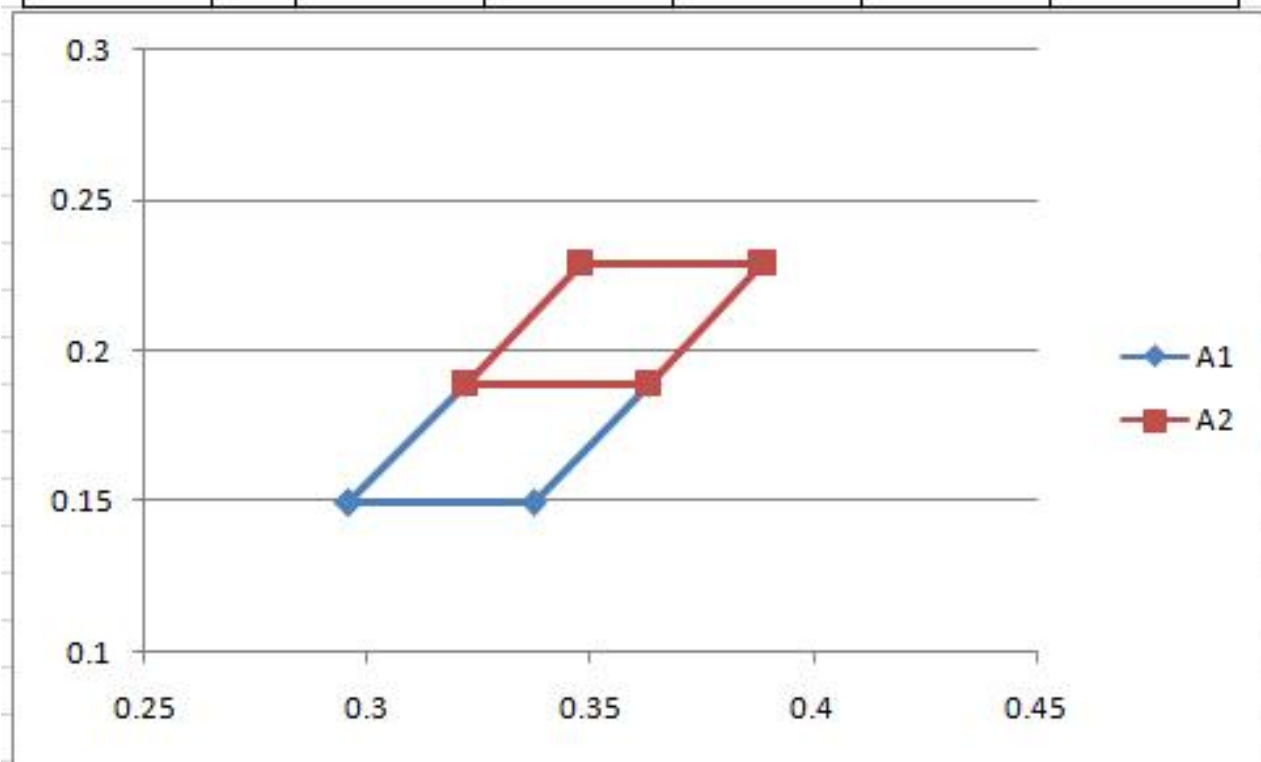
Rank	IV		Condition
	MIN	MAX	
80-150	80	150	IF=5mA
150-250	150	250	

Tolerance:±15%



◆ X Y Rank

		X1Y1	X2Y2	X3Y3	X4Y4	X1Y1
A1	X	0.2959	0.3219	0.3631	0.3374	0.2959
	Y	0.1496	0.1893	0.1893	0.1496	0.1496
A2	X	0.3219	0.3478	0.3888	0.3631	0.3219
	Y	0.1893	0.229	0.229	0.1893	0.1893





◆ Label Explanation :

◆ CAUTIONS:

1.Storage

- In order to avoid the absorption of moisture, it is recommended to store in the dry box (or desiccator) with a desiccant. Otherwise, to store them in the following environment is recommended. Temperature: 5°C~30°C Humidity: 60%HR max.

- Attention after opened

However LED is corresponded SMD, when LED be soldered dip, interfacial separation may affect The light transmission efficiency, causing the light intensity to drop. Attention in followed. a. After opened and mounted, the soldering shall be quickly. b. Keeping of a fraction Temperature: 5°C~40°C Humidity: less than 30%

- In case or more than 1 week passed after opening or change color of indicator on desiccant components shall be dried 10-12hr. at 60°C±3°C.

2.ESD (Electrostatic Discharge)

Static Electricity or power surge will damage the LED.

The following procedures may decrease the possibility of ESD damage.

- All production machinery and test instruments must be electrically grounded.
- Use a conductive wrist band or anti-electrostatic glove when handling these LEDs.
- Maintain a humidity level of 50% or higher in production areas.
- Use anti-static packaging for transport and storage.

3.Please be careful when using in an environment with high concentrations of sulphur or sulphuric gases,as sulphuration can lead to disconnection from the chip resistor or a poor contact connection.