

Data Sheet

Customer:	
Part No:	YL5050/G/XX/22/3/P2/60-H
Sample No:	YL180112-059
Description:	5050 Green SMD
Item No:	

Customer					
Check	Inspection	Approval	Date		

Y.LIN					
Drawn	Check Approval		Date		
			2017/9/15		

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YL5050/G/XX/22/3/P2/60-H

Features:

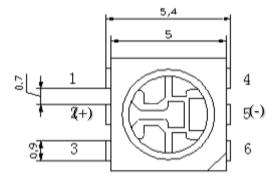
- . Reflow Solderable
- . High Luminous Intensity and Low Power Dissipation
- . Good Reliability and Long Life
- . Complied With RoHS Directive

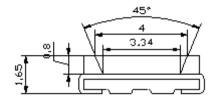
Technical Data Sheet

This product is generally used as indicator and luminary for electronic equipment such as household appliance, communication equipment, and dashboard.

Applications

- Optical indicator
- Indoor display
- Backlighting in dashboard and switch
- Flat backlighting for LCD, symbol and display
- General use





Notes:

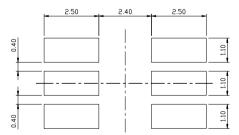
1. All dimension units are millimeters.

2. All dimension tolerance is ±0.2mm unless otherwise noted.









Y.LIN

Y. LIN ELECTRONICS CO., LTD.

YL5050/G/XX/22/3/P2/60-H

Selection Guide

Part No.	Dice	Lens Type	Luminous Flux(Lm) @ 60mA			Viewing Angle
		JP	Min	Тур	Max	201/2
YL5050/G/XX/22/3/P2/60-H	Blue (InGaN)	Water Clear	22	23	26	120

Note:

1.1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

2.the above luminous intensity measurement allowance tolerance $\pm 10\%$

Electrical / Optical Characteristics at Ta=25 °C

Parameter	Symbol	Min.	Тур.	Max	Units	test conditions
Forward Voltage	VF	2.7		3.3	V	IF=60mA
Reverse Current	IR			10	uA	VR = 5V
Dominate Wavelength	λd	515		530	nm	IF=60mA

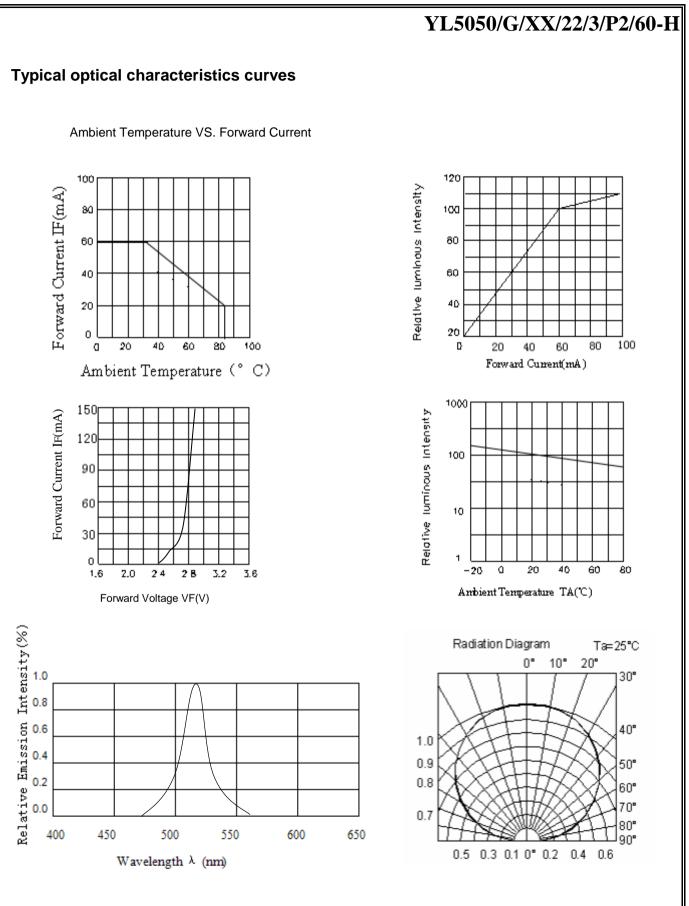
Absolute Maximum Ratings at Ta=25 °C

Parameter	Symbol	Rating	Units
Power Dissipation	Pd	200	mW
DC Forward Current	IF	60	mA
Peak Forward Current [1]	IFP	90	mA
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-40~+85	C
Storage Temperature	Tstg	-40~+100	C

Note:

- 1. 1/10 Dut cycle,0.1ms pulse width.
- 2. The above forward voltage measurement allowance tolerance ± 0.1 V.
- 3. The tolerance of wave length: $\pm 1 \text{ nm}$.







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Reliability Test Items And Conditions

The reliability of products shall be satisfied with items listed below.

Confidence level :90%

LTPD :10%

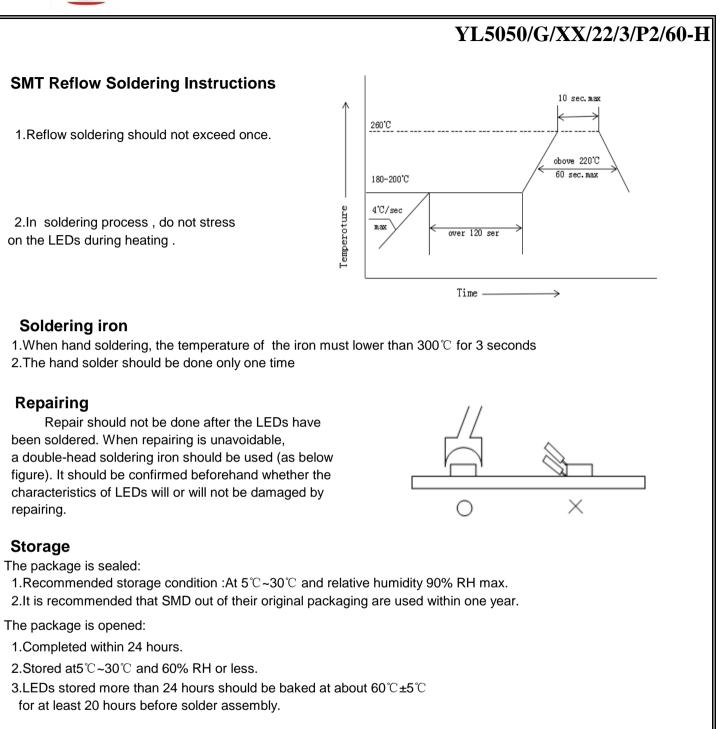
Test Items	Test conditions	Quantity	Judging Criteria
Solderability	Solder Temperature: 240°C Solder Duration: (3.5±0.5) sec.	22	Solderable Area Over 95%
Thermal Shock Followed by High Temperature And High Humidity Cyclic	-40°→10min 5 Cycles † ↓ shift(2~3)min 100°C →10 min. 25°C~55°C (90%~95%) RH 2 Cycles for 48 hrs., Recover for 2 hrs	22	C=0 & I**
Resistance For Soldering Heat	Reflow Soldering	22	C=0 & I**
DC Operating Life	1000 hrs. Forward Current: 60mA	22	C=0 & I**
High Temperature Storage	100°C → 1000 hrs	22	C=0 & I**
High Temperature And High Humidity Cyclic	25℃~55℃ (90%~95%)RH 6 Cycles for 144 hrs., Recover for 2 hrs.	22	C=0 & I**

The thchnical iformation shown in the data sheets are limited to the typical characteristics and circuit examples

of the referenced products. It does not constitute the warranting of industrial property nor the granting of any license.

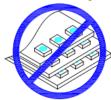
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Handling Precautions

1.Do not stack together assembled PCBs containing LEDs. Impact may scratch the silicone lens or damage.



2.Not available in the situation of acidity for PH.





