Model No.	FYL-5014PGC1H-TL-S2
Date / Rev.	2021.08.17 / A

PRODUCT SPECIFICATION

Model No.：FYL-5014PGC1H-TL-S2

Descriptions:
■Dice material: InGaN.
■Emitting Color: Super Bright Pure Green.
■Device Outline: Φ5mm round type.
■Lens Type: Water clear.

CUSTOMER APPROVED SIGNATURES	APPROVED BY	SALES BY	PREPARED BY
		Foryard S011 2021. 08. 17	Foryard E001 2021. 08. 17

NINGBO FORYARD OPTOELECTRONICS CO.,LTD.

Add: No. 666 Jinghua Road, Hi-tech Park, Ningbo, Zhejiang, China **Zip:**315103

Tel: 0086-574-87933652 87922206 87927870

Fax: 0086-574-87927917

E-mail: Sales@foryard.com (General)

Model No.: FYL-5014PGC1H-TL-S2

■ Features

1.Low power consumption.

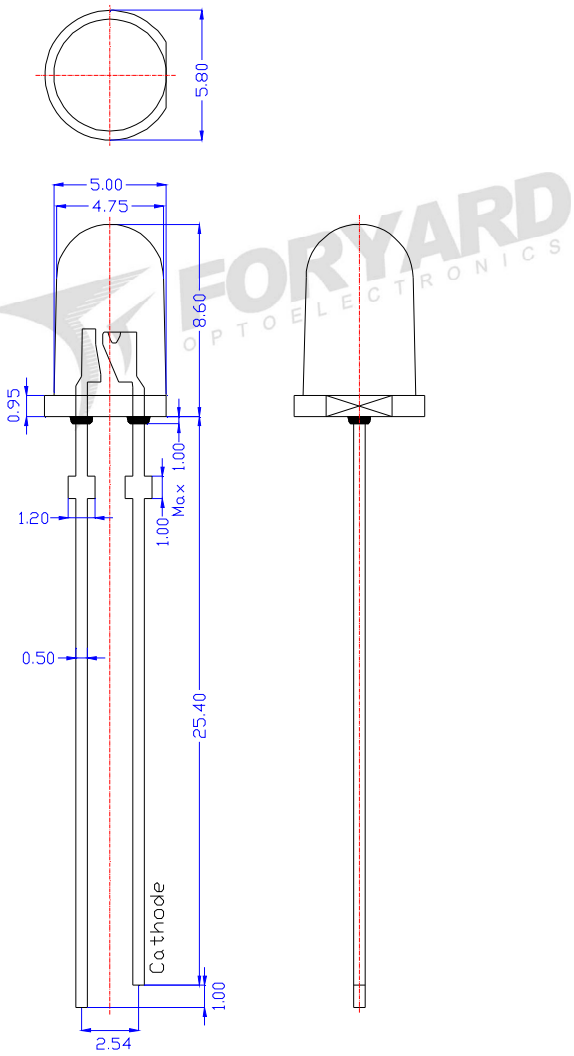
2.High efficiency.

3.General purpose leads.

4.High intensity.

5.RoHs compliant.

■ Package configuration



Notes:

1. All dimensions are millimeters (inches)
2. Tolerance is ±0.25mm(.010”) unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
4. The drawing is different from the actual one, please refer to the sample.

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■ Absolute Maximun Ratings(Ta=25ºC)

Parameter	MAX.	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	mA
Derating Linear From 50℃	0.4	mA/℃
Reverse Voltage	5	V
Operating Temperature Range	-40℃ to +85℃	
Storage Temperature Range	-40℃ to +100℃	
Lead Soldering Temperature[4mm(.157") From Body]	260℃ for 5 Seconds	

■ Typical Electrical &Optical Charcteristics(Ta=25ºC)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_V	18500	27000	40000	mcd	IF=20mA
Viewing Angle	$2\theta_{1/2}$	---	20	---	Deg	
Peak Emission Wavelength	λp	---	520	--	nm	
Dominant Wavelength	λd	516	520	524	nm	
Spectral Line Half-Width	△λ	---	36	--	nm	
Forward Voltage	V_F	2.6	3	3.4	V	
Reverse Current	I_R	---	---	10	μA	VR=5V

Note:

1.Luminous Intensity is based on the Foryard standards.

2.Pay attention about static for InGaN

■Luminous Intensity Guide (Unit: mcd) @IF=20mA

Code	N29	N30	N31	N32
Luminous Intensity(mcd)	18500~22500	22500~27000	27000~33000	33000~40000

Tolerance of measurement of luminous intensity is ±15%

■Dominate Wavelength Guide (Unit: nm) @IF=20mA

Code	G11	G12	G13	G14
Dominate Wavelength(nm)	516~518	518~520	520~522	522~524

Tolerance for each Dominate Wavelength bin is ±1nm

■Forward Voltage Guide (Unit: V) @IF=20mA

Code	V6	V7	V8	V9
Forward Voltage(V)	2.6~2.8	2.8~3.0	3.0~3.2	3.2~3.4

Tolerance of measurement of forward voltage is ±0.1V

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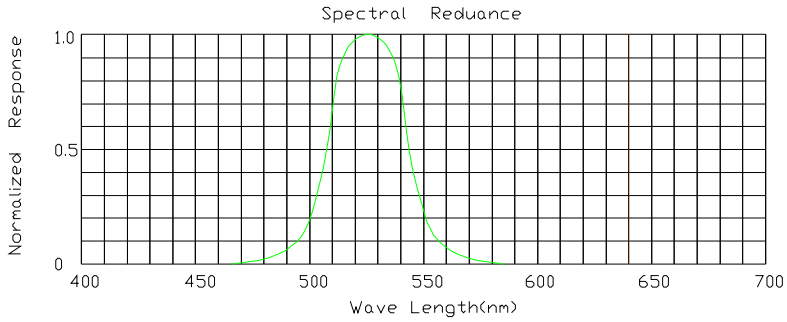
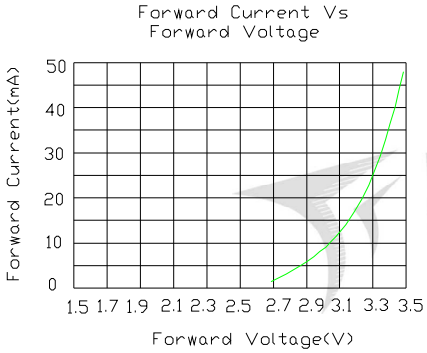
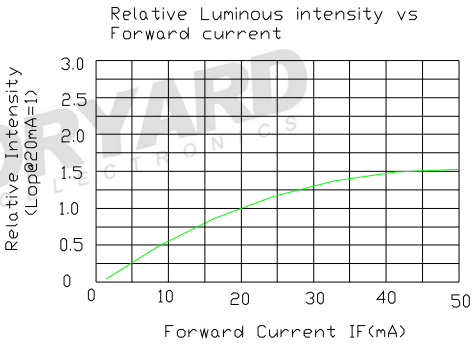
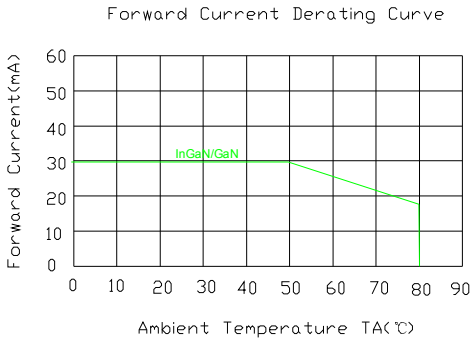
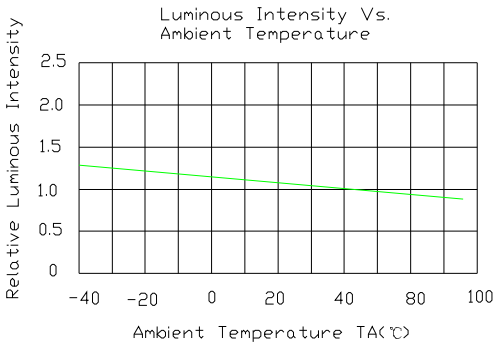
■ Typical Eletrical/Optical Characteristics Curves(Ta=25ºC Unless Otherwise Noted)



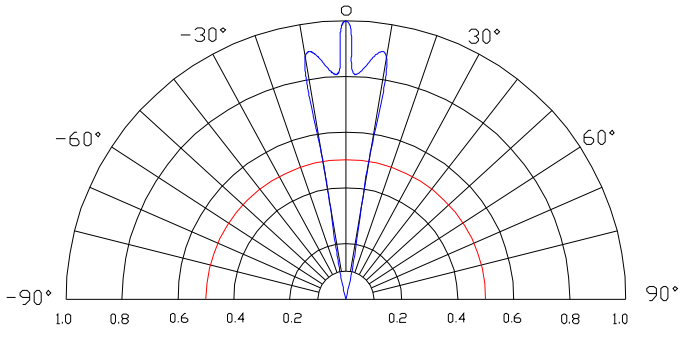








■ Radiation pattern



Relative Lumionous Intensity(LOP @max=1)

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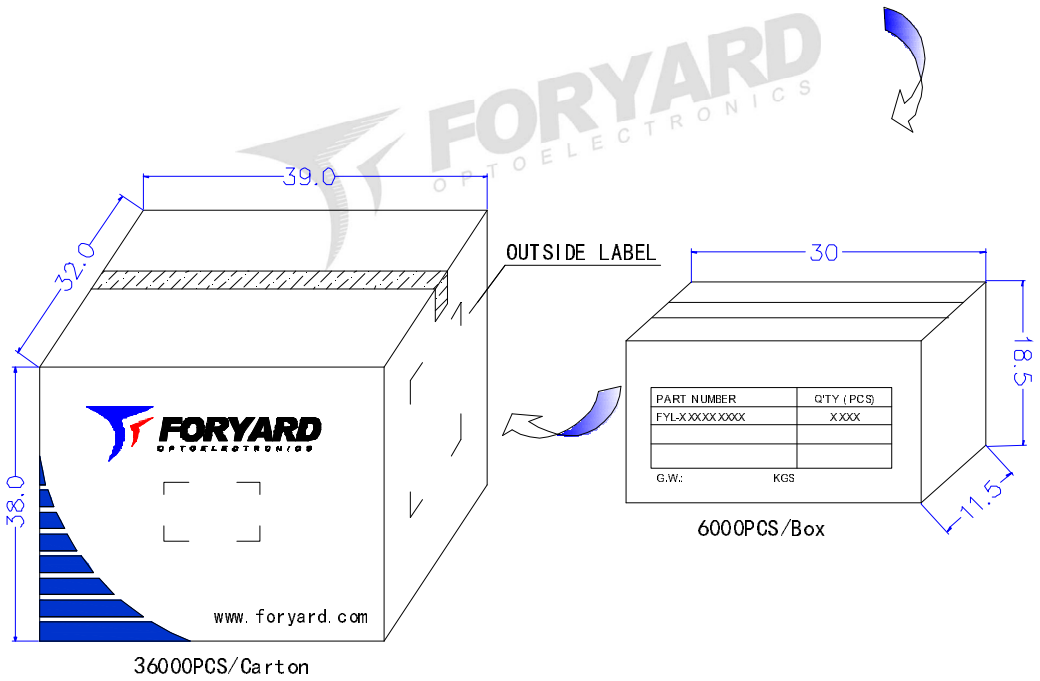
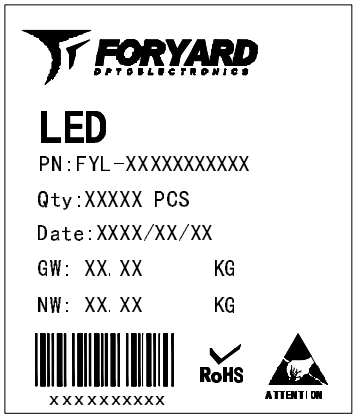
■ LAMP PACKING.

5mm 500PCS/Polybag



6000PCS/Box

36000PCS/Carton



OUTSIDE LABEL

Note: The specifications are subject to change without notice. Please contact us for updated information.