Model No.	FYL-5049LURPGC1G-CA
Date / Rev.	2025.02.20 / A

PRODUCT SPECIFICATION

Model No.：FYL-5049LURPGC1G-CA

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

CUSTOMER APPROVED SIGNATURES	APPROVED BY	SALES BY	PREPARED BY
		Foryard S020 2025. 02. 20	Foryard E001 2025. 02. 20

NINGBO FORYARD OPTOELECTRONICS CO.,LTD.

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■ Features

1.Low power consumption.

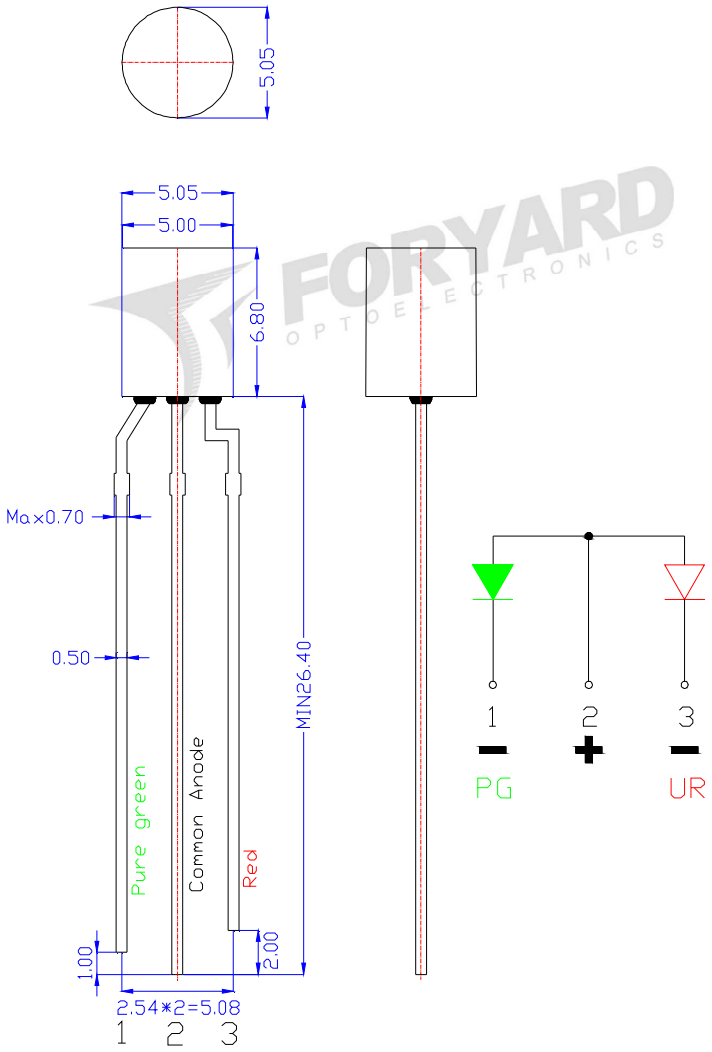
2.High efficiency.

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
	UR	PG	
Power Dissipation	75	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	100	mA
Continuous Forward Current	30	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	Colour	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_V	UR	---	1200	---	mcd	IF=20mA
		PG	---	2600	--		
Viewing Angle	$2\theta_{1/2}$	UR	---	110	---	Deg	
		PG	---	90	--		
Peak Emission Wavelength	λp	UR	---	630	--	nm	
		PG	---	520	--		
Dominant Wavelength	λd	UR	618	625	630	nm	
		PG	515	520	525		
Spectral Line Half-Width	△λ	UR	---	20	--	nm	
		PG	---	36	--		
Forward Voltage	V_F	UR	1.8	2.1	2.4	V	
		PG	2.6	3.1	3.4		
Reverse Current	I_R		---	---	10	μA	VR=5V

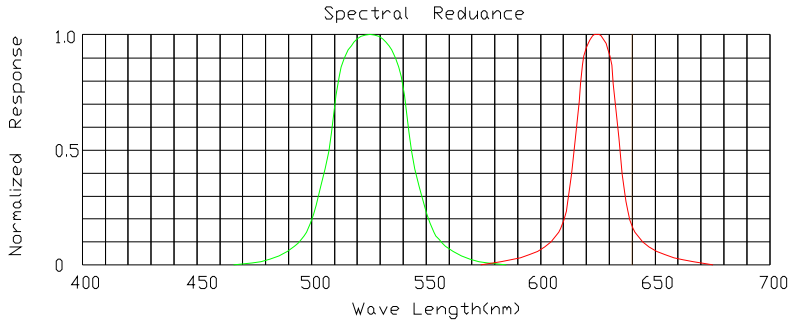
Note:

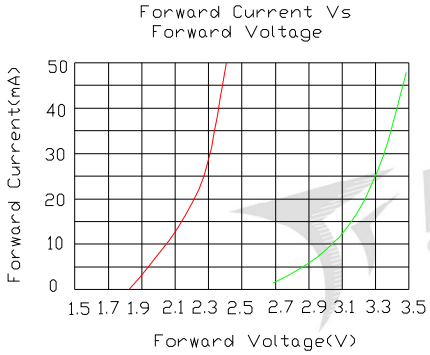
1.Luminous Intensity is based on the Foryard standards.

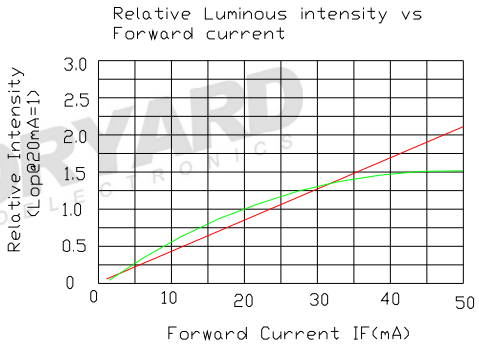
2.Pay attention about static for InGaN

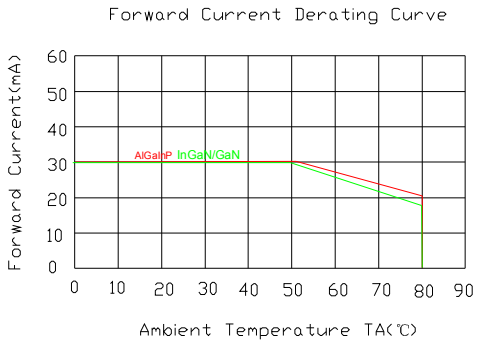
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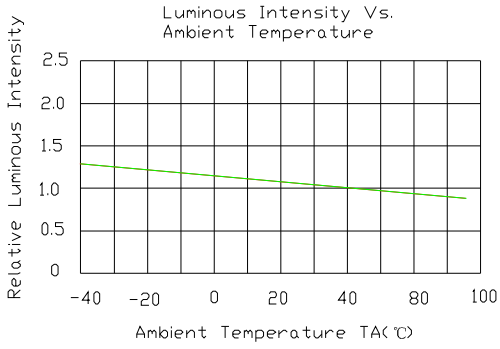
■ Typical Eletrical/Optical Characteristics Curves(Ta=25ºC Unless Otherwise Noted)



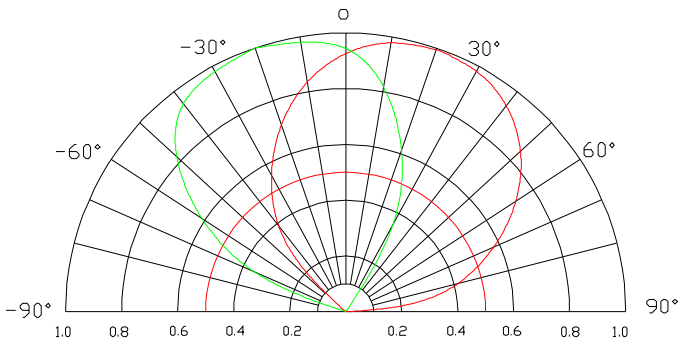








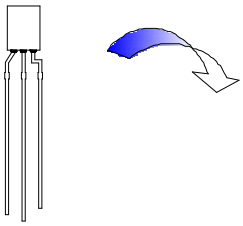
■ Radiation pattern



Relative Lumionous Intensity(LOP @max=1)

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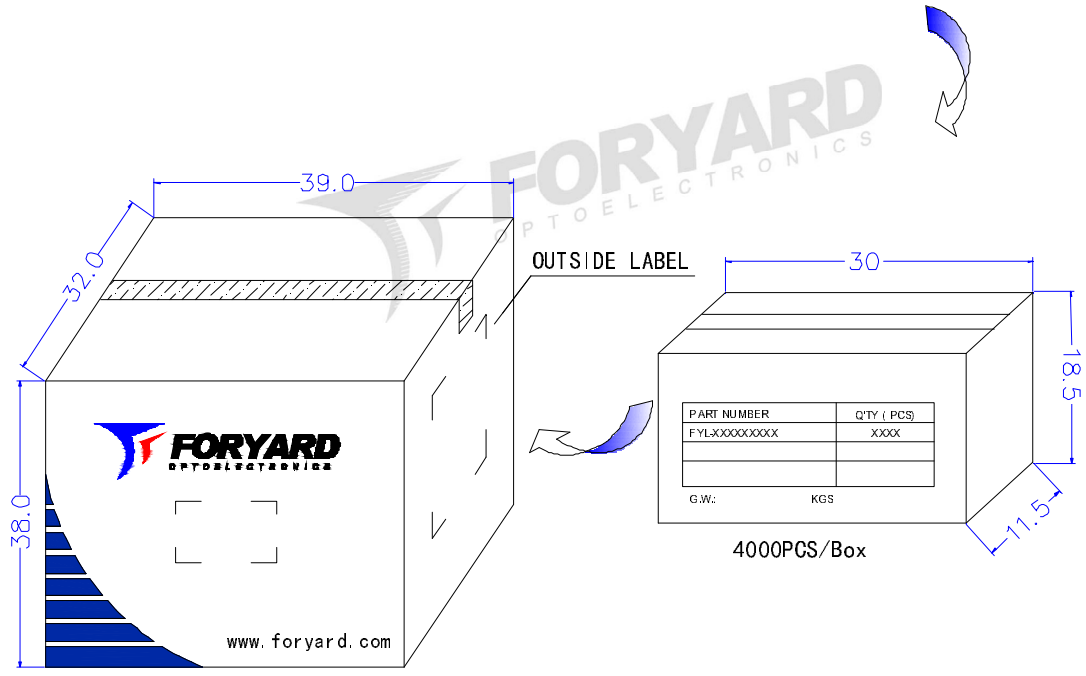
■ LAMP PACKING.





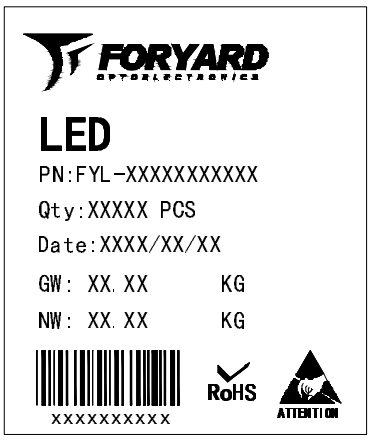
5mm 500PCS/Polybag





4000PCS/Box

24000PCS/Carton



OUTSIDE LABEL

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