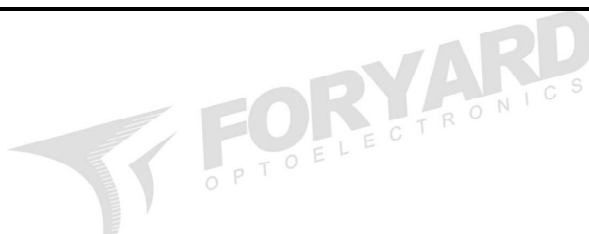


PRODUCT SPECIFICATION

Model No.: FYL-3014PURC1A

Descriptions:

- Dice material: AlGaInP.
- Emitting Color: Super Bright Red.
- Device Outline: $\Phi 3\text{mm}$ round type.
- Lens Type: Water clear.



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

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

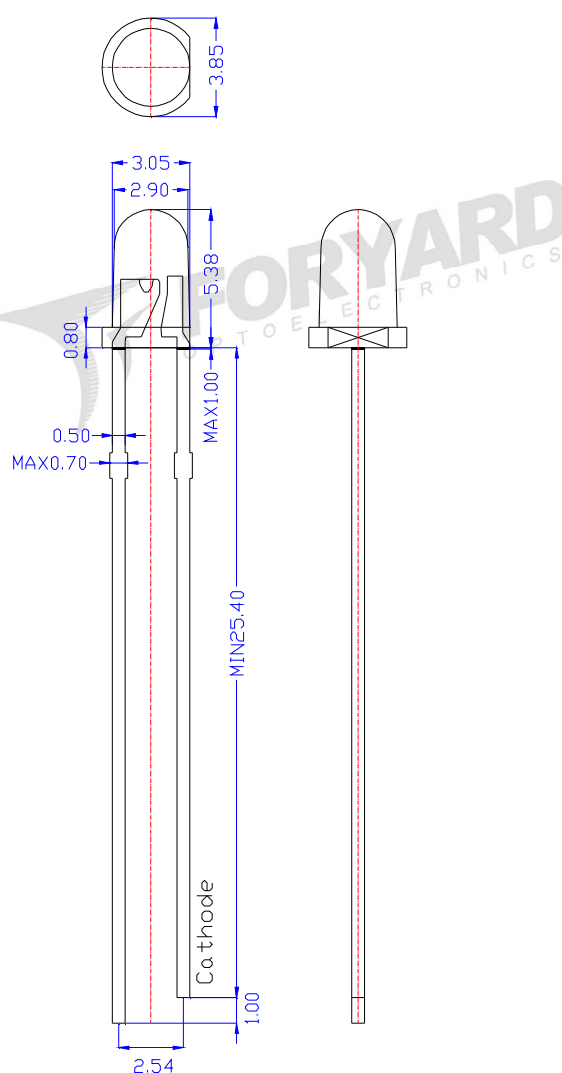
E-mail:Sales@foryard.com (General)

Model No.: FYL-3014PURC1A

■ 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 $\pm 0.25\text{mm}$ (.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.

Model No.: FYL-3014PURC1A

■ Absolute Maximun Ratings(Ta=25°C)

Parameter	MAX.	Unit
Power Dissipation	75	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +85°C	
Storage Temperature Range	-40°C to +100°C	
Lead Soldering Temperature[4mm(.157") From Body]	260°C for 5 Seconds	

■ Typical Electrical & Optical Charcteristics(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _V	4750	7500	10800	mcd	IF=20mA
Viewing Angle	2θ _{1/2}	---	30	---	Deg	
Peak Emission Wavelength	λ _p	---	630	--	nm	
Dominant Wavelength	λ _d	618	624	630	nm	
Spectral Line Half-Width	Δλ	---	20	--	nm	
Forward Voltage	V _F	1.8	2.1	2.4	V	VR=5V
Reverse Current	I _R	---	---	10	μA	

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	N22	N23	N24	N25
Luminous Intensity(mcd)	4750~6000	6000~7500	7500~9000	9000~10800

Tolerance of measurement of luminous intensity is ±15%

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

Code	R1	R2	R3	R4
Dominate Wavelength(nm)	618~621	621~624	624~627	627~630

Tolerance for each Dominate Wavelength bin is ±1nm

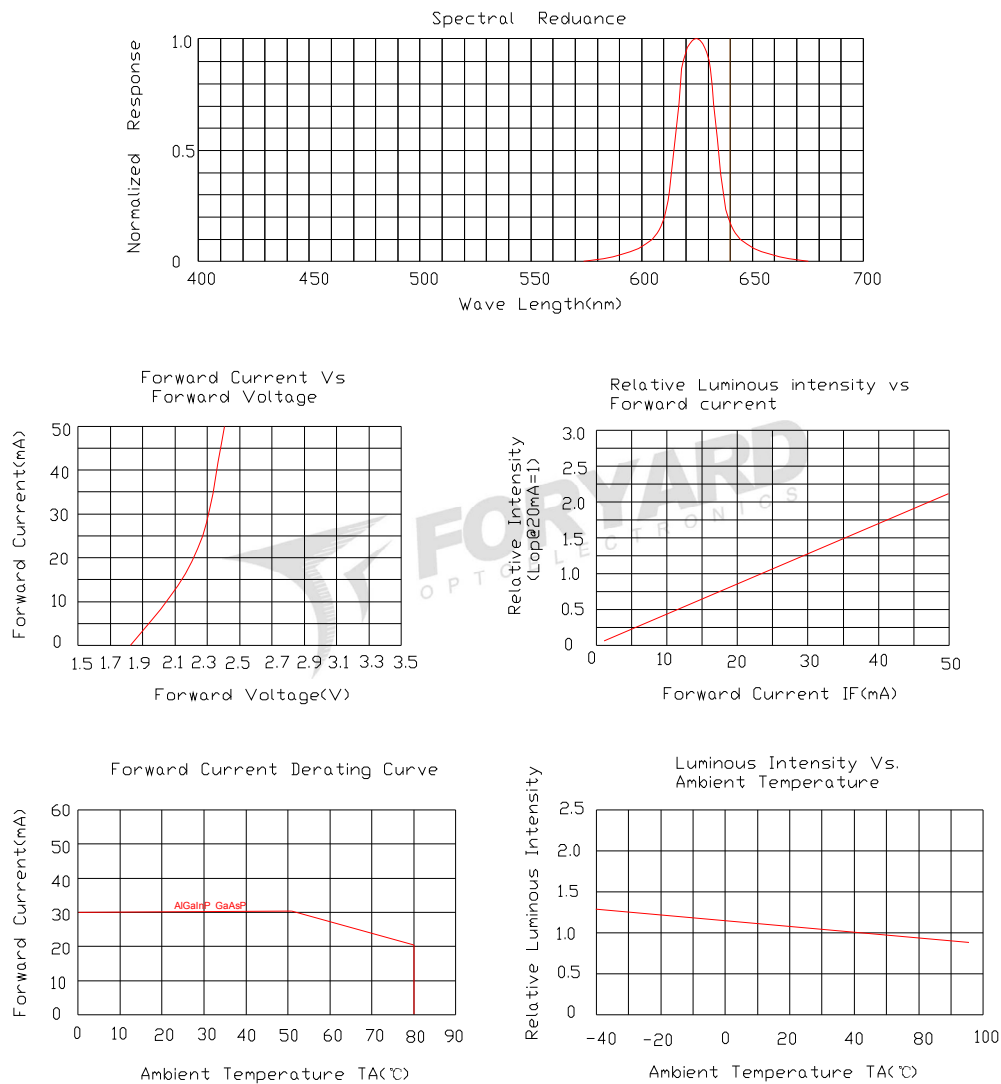
■ Forward Voltage Guide (Unit: V) @IF=20mA

Code	V2a	V2b	V3a	V3b	V4a	V4b
Forward Voltage(V)	1.8~1.9	1.9~2.0	2.0~2.1	2.1~2.2	2.2~2.3	2.3~2.4

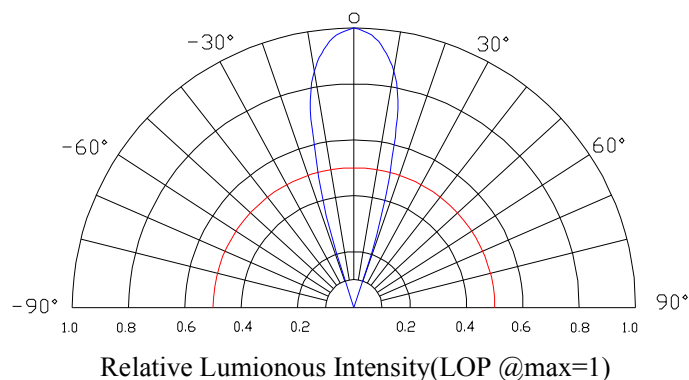
Tolerance of measurement of forward voltage is ±0.1V

Model No.: FYL-3014PURC1A

■ Typical Electrical/Optical Characteristics Curves(Ta=25°C Unless Otherwise Noted)

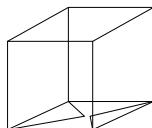
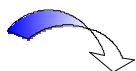


■ Radiation pattern

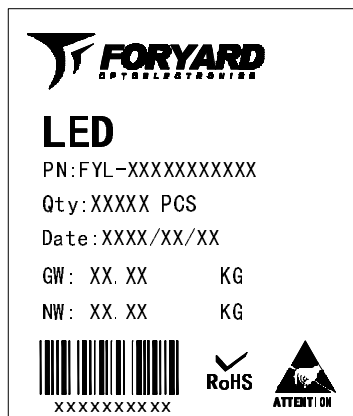
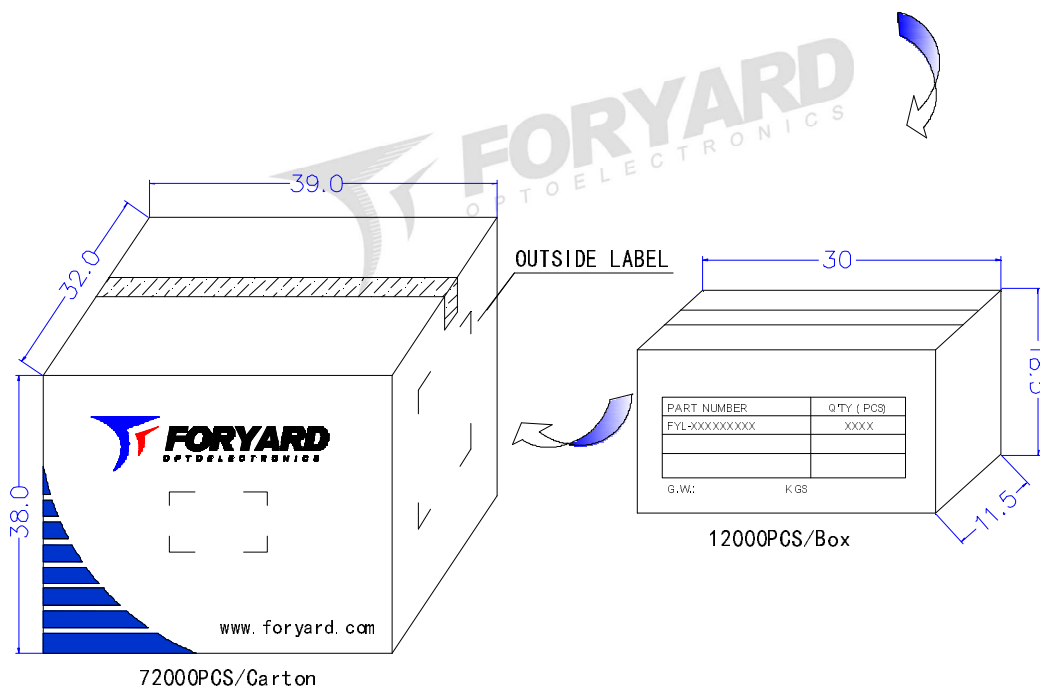


Model No.: FYL-3014PURC1A

■ LAMP PACKING.



3mm 1000PCS/Polybag



OUTSIDE LABEL

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