

# PRODUCT SPECIFICATION

**Model No.: FYL-8013ED1B**

Descriptions:
<ul style="list-style-type: none"> <li>■ Dice material: GaAsP.</li> <li>■ Emitting Color: Orange.</li> <li>■ Device Outline: <math>\Phi</math>8mm round type.</li> <li>■ Lens Type: Red Diffused.</li> </ul>



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

**NINGBO FORYARD OPTOELECTRONICS CO.,LTD.**

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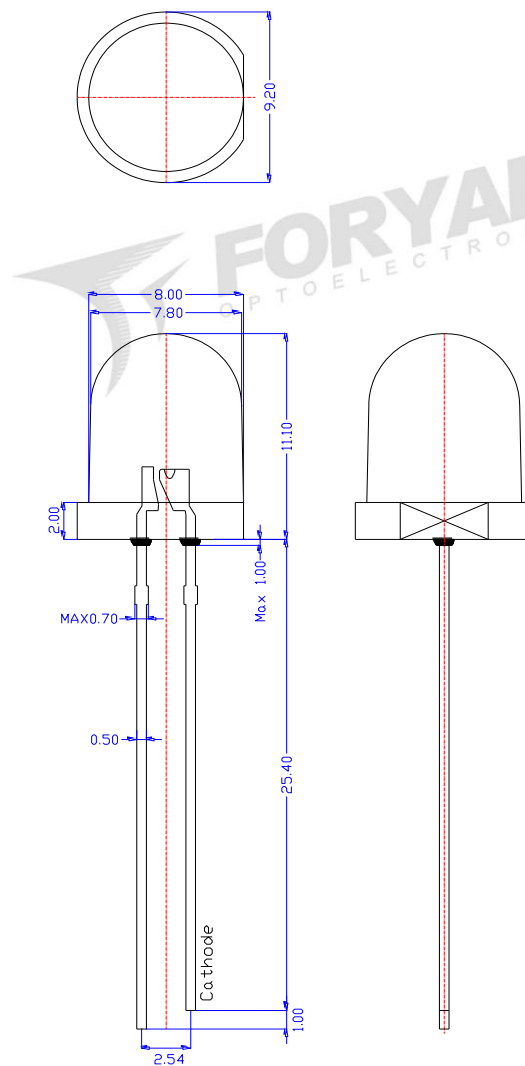
**E-mail:**Sales@foryard.com (General)

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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  $\pm 0.25\text{mm}$  (.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.

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### ■ Absolute Maximum Ratings(Ta=25°C)

Parameter	MAX.	Unit
Power Dissipation	80	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	150	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 Characteristics(Ta=25°C)

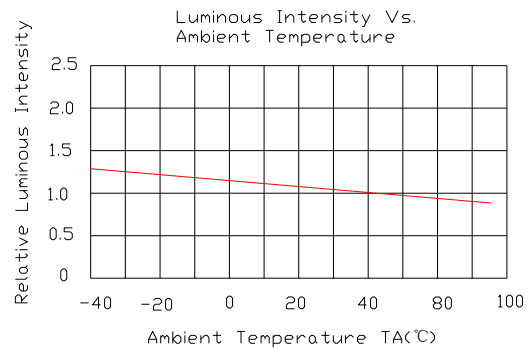
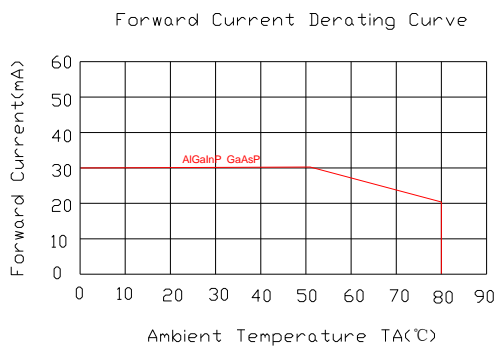
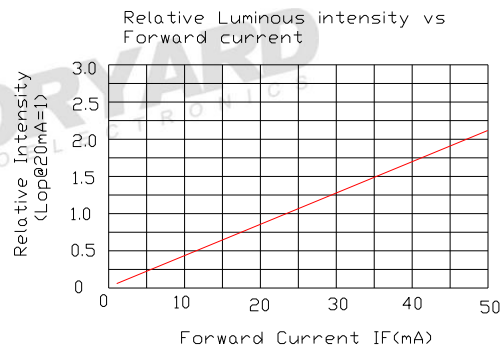
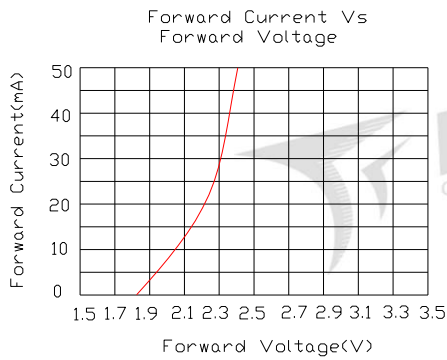
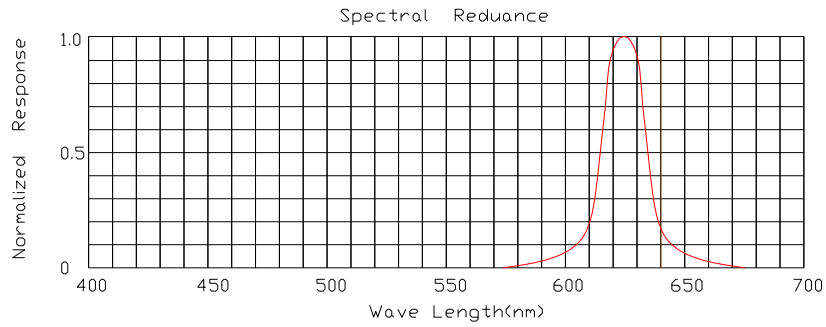
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	$I_V$	30	70	150	mcd	IF=20mA
Viewing Angle	$2\theta_{1/2}$	---	30	---	Deg	
Peak Emission Wavelength	$\lambda_p$	---	625	--	nm	
Dominant Wavelength	$\lambda_d$	618	623	628	nm	
Spectral Line Half-Width	$\Delta\lambda$	---	35	--	nm	
Forward Voltage	$V_F$	1.8	2.1	2.4	V	VR=5V
Reverse Current	$I_R$	---	---	10	$\mu A$	

Note:

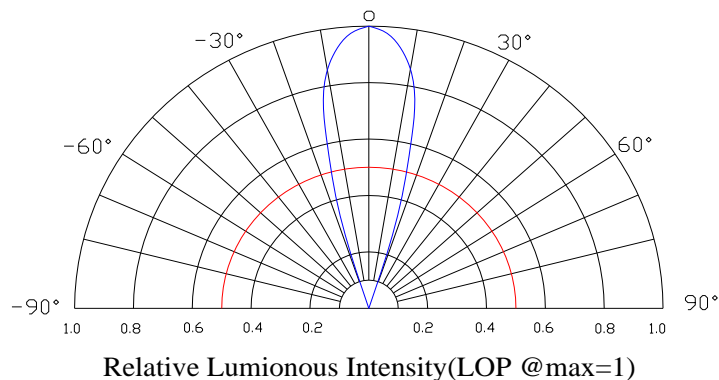
- 1.Luminous Intensity is based on the Foryard standards.
- 2.Pay attention about static for InGaN

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

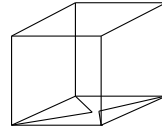
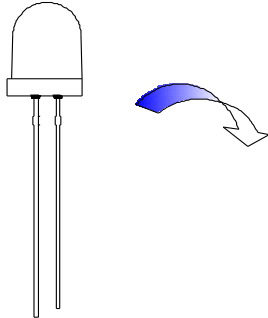


**Radiation pattern**

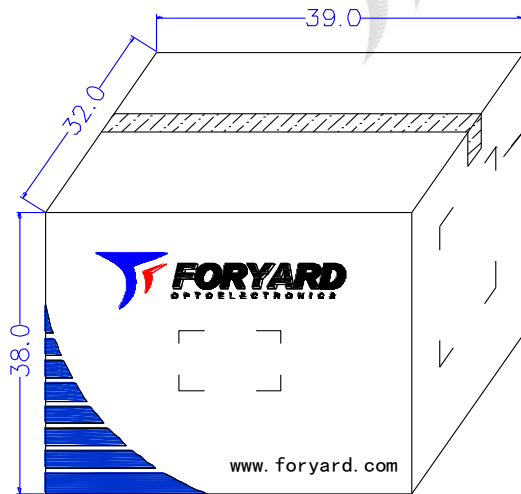


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**LAMP PACKING.**

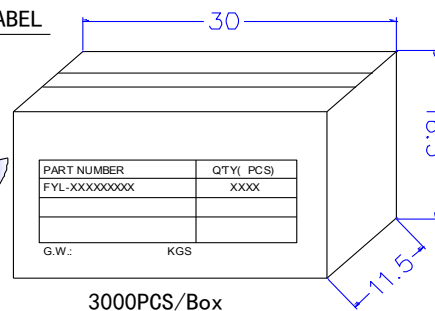


8mm 300PCS/Polybag

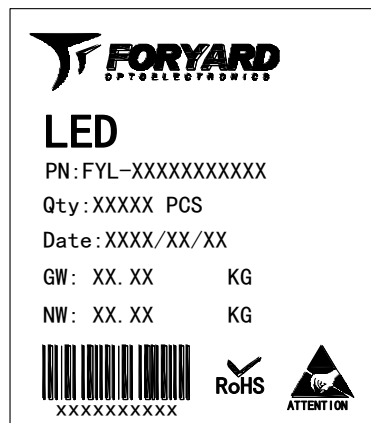


18000PCS/Carton

OUTSIDE LABEL



3000PCS/Box



OUTSIDE LABEL

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