



PRODUCT SPECIFICATION

Model No.: FYL-5013IRAT1C

Descriptions:
<ul style="list-style-type: none"> ■ Dice material: AlGaAs. ■ Emitting Color: Infrared. ■ Device Outline: Φ5mm round type. ■ Lens Type: Blue transparent.



CUSTOMER APPROVED SIGNATURES	APPROVED BY	SALES BY	PREPARED BY
			

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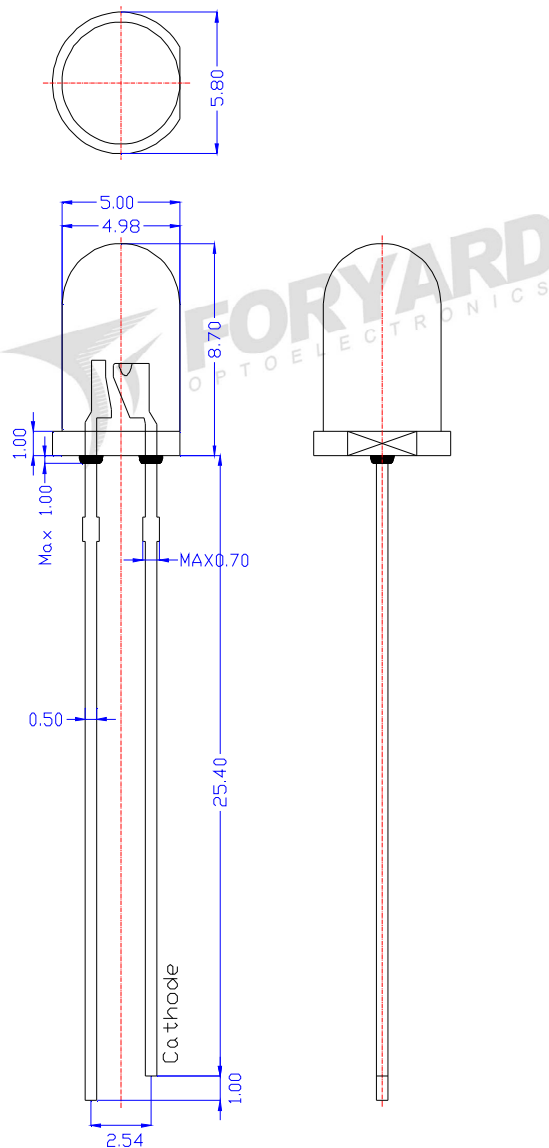
[Http://www.foryard.com](http://www.foryard.com)

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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 $\pm 0.25\text{mm}(.010\text{'})$ unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior

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■ **Absolute Maximun Ratings(Ta=25° C)**

Parameter	Symbol	Test Condition	MAX.	Unit
Power Dissipation	pd	—	100	mW
Forward Current	IFM	Duty=0.01ms 1khz	1000	mA
Reverse Voltage	VR	IR=10UA	9	V
Operating Temperature Range		-30°C to +80°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)**

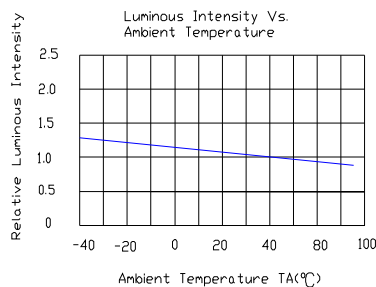
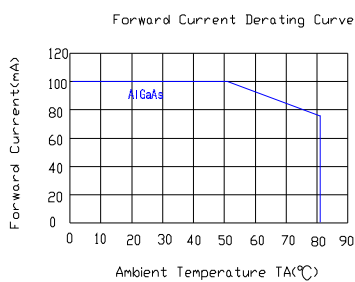
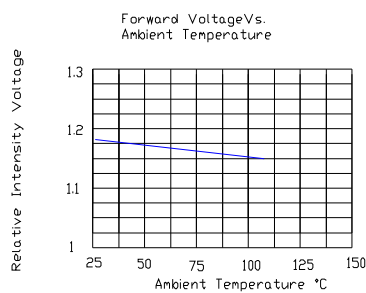
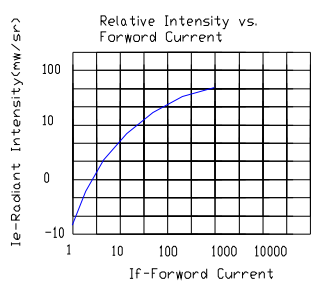
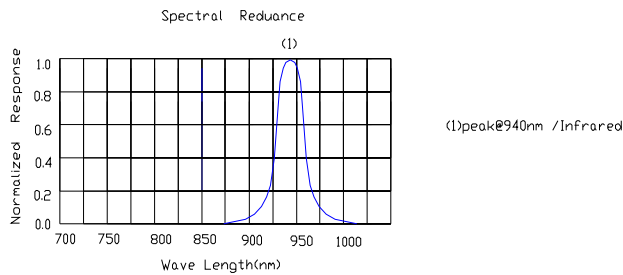
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Radiant Intensity	Ee	60	120	—	mW/sr	IF=50mA
Viewing Angle	2θ _{1/2}	—	20	—	Deg	
Peak Emission Wavelength	λp	—	940	—	nm	
Spectral Line Half-Width	Δλ	40	45	50	nm	
Forward Voltage	V _F	—	1.3	1.5	V	VR=5V
Reverse Current	I _R	—	—	10	μA	

Note:

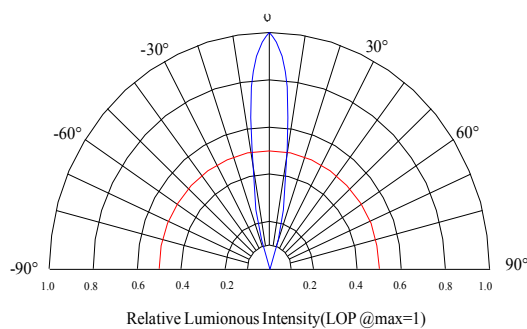
- 1.Luminous Intensity is based on the Foryard standards.
- 2.Pay attention about static for InGaN

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

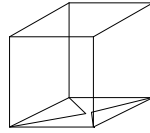
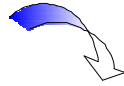
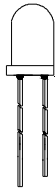


Radiation pattern.

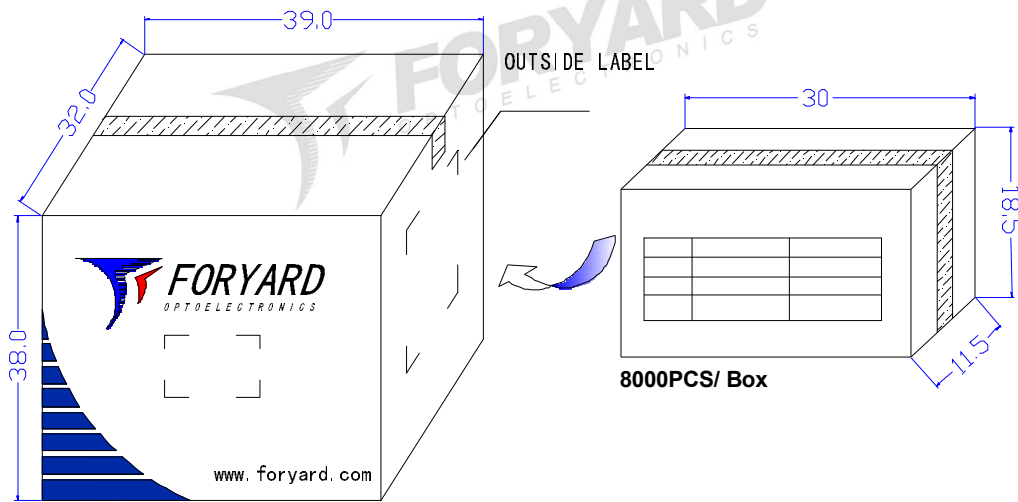
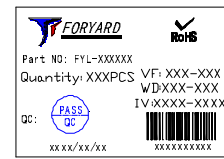


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■ LAMP PACKING.



5mm 1000PCS/Polybag



48000PCS/ Carton



OUTSIDE LABEL

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