



# PRODUCT SPECIFICATION

**Model No.: FYL-5464UWW1C-S2-TR13**

Descriptions:
<ul style="list-style-type: none"> <li>■ Dice material: InGaN.</li> <li>■ Emitting Color: Super bright White.</li> <li>■ Device Outline: <math>\Phi 5 \times 4</math> mm ellipse type.</li> <li>■ Lens Type: White Diffused.</li> </ul>



CUSTOMER APPROVED SIGNATURES	APPROVED BY	SALES BY	PREPARED BY
			

**NINGBO FORYARD OPTOELECTRONICS CO.,LTD**

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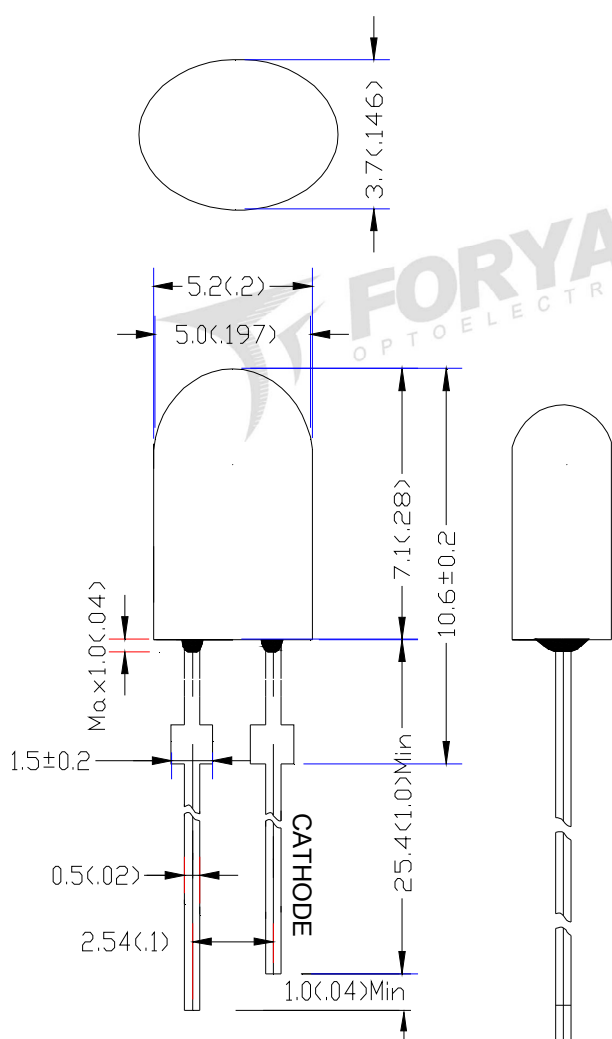
**Zip:**315103

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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

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

Parameter	MAX.	Unit
Power Dissipation	90	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	25	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	$I_v$	4000	5000	-	mcd	IF=20mA
Viewing Angle	2θ <sub>X</sub>	-	95		Deg	
	1/2 <sub>Y</sub>	-	50		Deg	
Chromaticity coordinates	X	-	0.28	-		
	Y	-	0.29	-		
Color temperature	CCT	-	9500	-	K	
Forward Voltage	$V_F$	2.7	3.0	3.4	V	
Reverse Current	$I_R$			10	μA	VR=5V

Note:

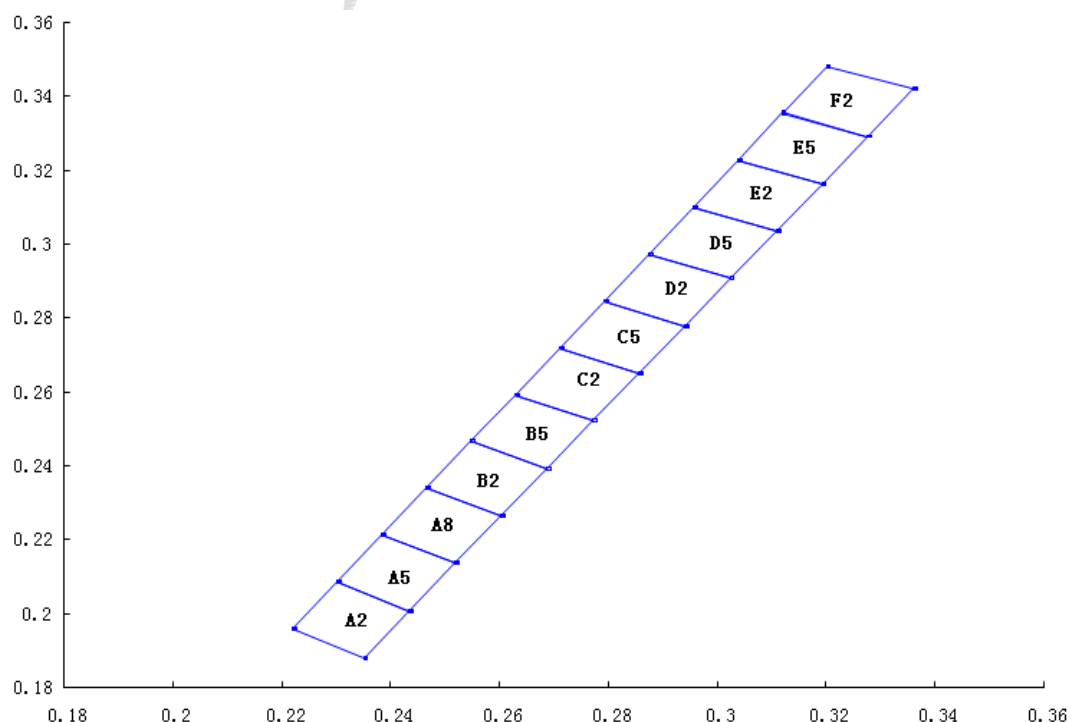
- 1.Luminous Intensity is based on the Foryard standards.
- 2.Pay attention about static for InGaN.

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**White Color Diagram**

The table of chromaticity coordinate@20Ma

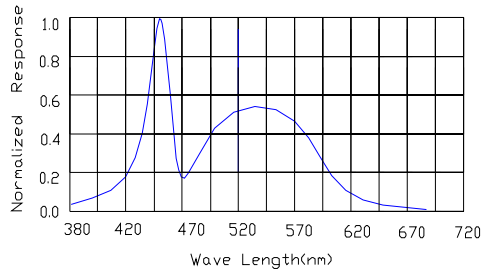
BIN	CIE	Top	Right	Bottom	Left	BIN	CIE	Top	Right	Bottom	Left
A2	X	0.2302	0.2434	0.2350	0.2220	C5	X	0.2792	0.2939	0.2855	0.2710
	Y	0.2087	0.2008	0.1880	0.1960		Y	0.2847	0.2778	0.2650	0.2720
A5	X	0.2383	0.2518	0.2434	0.2302	D2	X	0.2873	0.3023	0.2939	0.2792
	Y	0.2213	0.2137	0.2008	0.2087		Y	0.2973	0.2907	0.2778	0.2847
A8	X	0.2465	0.2602	0.2518	0.2383	D5	X	0.2955	0.3108	0.3023	0.2873
	Y	0.2340	0.2265	0.2137	0.2213		Y	0.3100	0.3035	0.2907	0.2973
B2	X	0.2547	0.2687	0.2602	0.2465	E2	X	0.3037	0.3192	0.3108	0.2955
	Y	0.2467	0.2393	0.2265	0.2340		Y	0.3227	0.3163	0.3035	0.3100
B5	X	0.2628	0.2771	0.2687	0.2547	E5	X	0.3118	0.3276	0.3192	0.3037
	Y	0.2593	0.2522	0.2393	0.2467		Y	0.3358	0.3292	0.3163	0.3227
C2	X	0.2710	0.2855	0.2771	0.2628	F2	X	0.3200	0.3360	0.3276	0.3118
	Y	0.2720	0.2650	0.2522	0.2593		Y	0.3480	0.3420	0.3292	0.3353



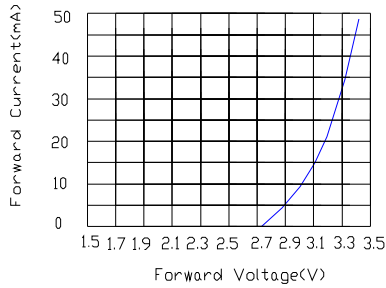
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**Typical Electrical/Optical Characteristics Curves(Ta=25°C Unless Otherwise Noted)**

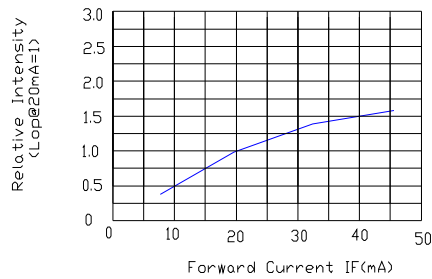
Spectral Reduance



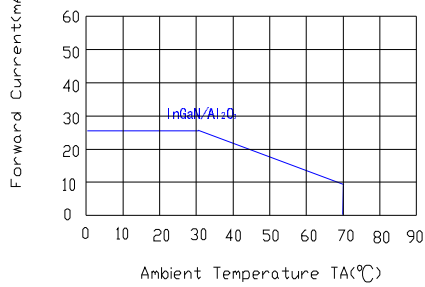
Forward Current Vs Forward Voltage



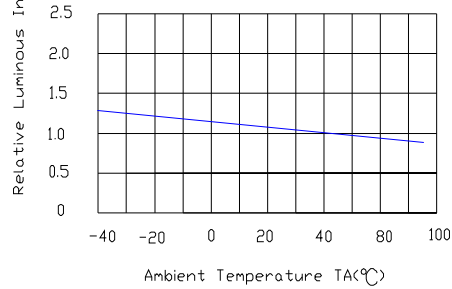
Relative Luminous intensity vs Forward current



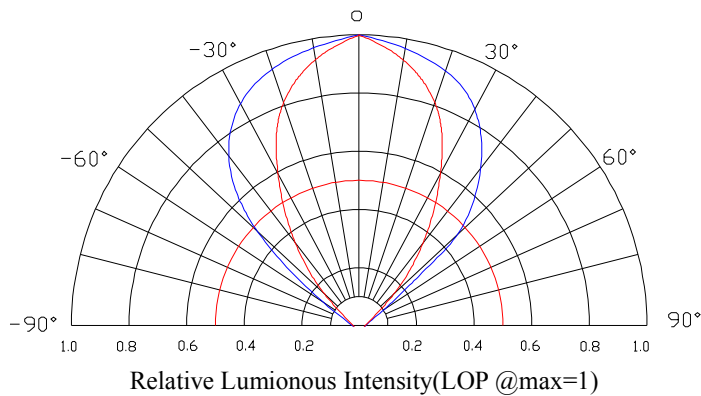
Forward Current Derating Curve



Luminous Intensity Vs. Ambient Temperature

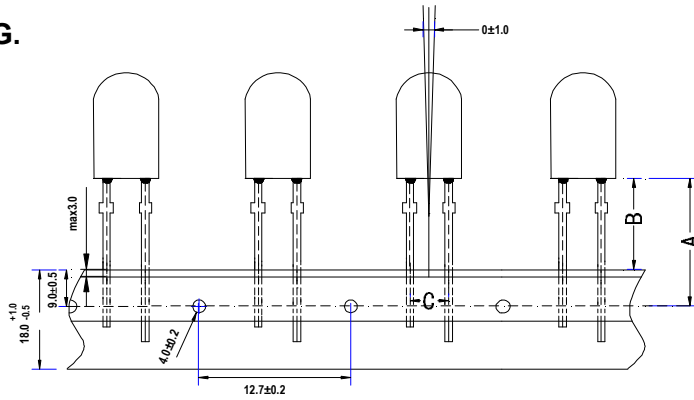


**Radiation pattern.**

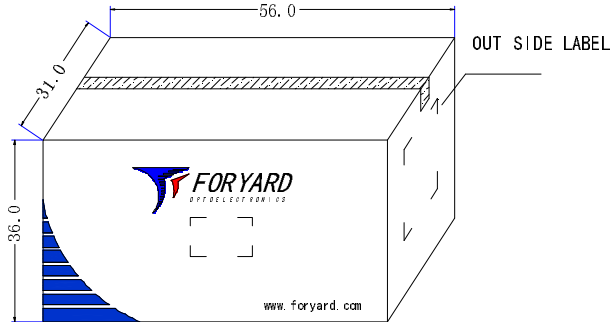
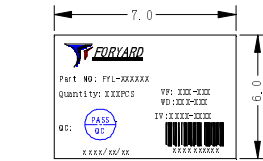
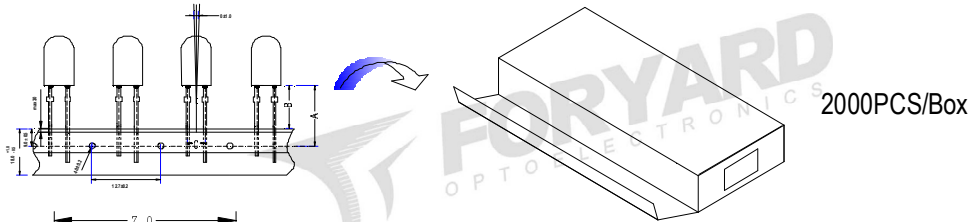


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**REEL PACKING.**



A:22.0mm±0.5mm, B:13.0±0.5mm, C:2.54mm±0.05mm



12 boxes/carton

