

Model No.	FYL-48D2SURC1A
Date / Rev.	2020.04.25 / A

PRODUCT SPECIFICATION

Model No.: FYL-48D2SURC1A

Descriptions:

■ Dice material: AlGaInP.

■ Emitting Color: Super Bright Red.

■Device Outline: Φ4.8mm round type.

■Lens Type: Water clear.









CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

NINGBO FORYARD OPTOELECTRONICS CO.,LTD.

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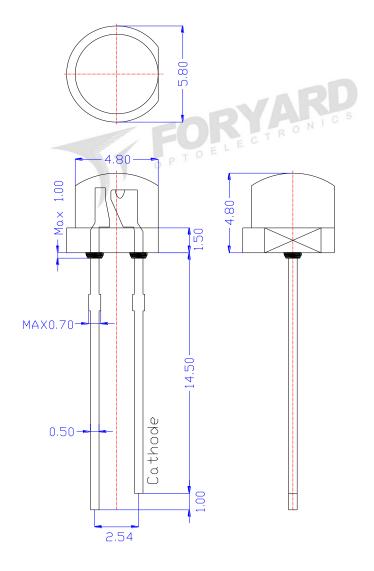


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■ Features

- 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=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℃	0.4	mA/℃
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.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	350	700	1380	mcd	
Viewing Angle	2θ _{1/2}	P T_	50		Deg	
Peak Emission Wavelength	λр		630		nm	IF=20mA
Dominant Wavelength	λd	618	625	630	nm	IF=20IIIA
Spectral Line Half-Width	$\triangle \lambda$		20		nm	
Forward Voltage	V _F	1.8	2.1	2.4	V	
Reverse Current	I _R			10	μΑ	VR=5V

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	N13	N14	N15	N16
Luminous Intensity(mcd)	350~500	500~700	700~1000	1000~1380

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

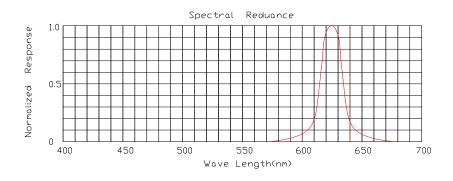
Code	V2	V3a	V3b	V4
Forward Voltage(V)	1.8~2.0	2.0~2.1	2.1~2.2	2.2~2.4

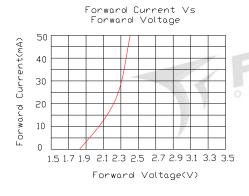
Tolerance of measurement of forward voltage is ±0.1V

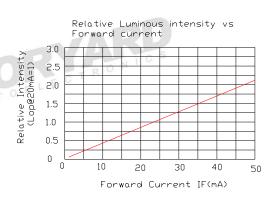


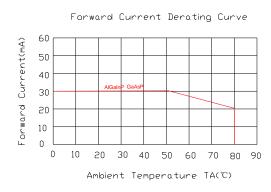
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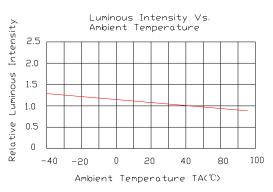
■ Typical Eletrical/Optical Characteristics Curves(Ta=25°C Unless Otherwise Noted)



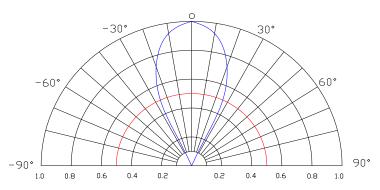








■ Radiation pattern

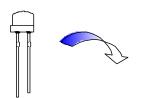


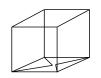
Relative Lumionous Intensity(LOP @max=1)



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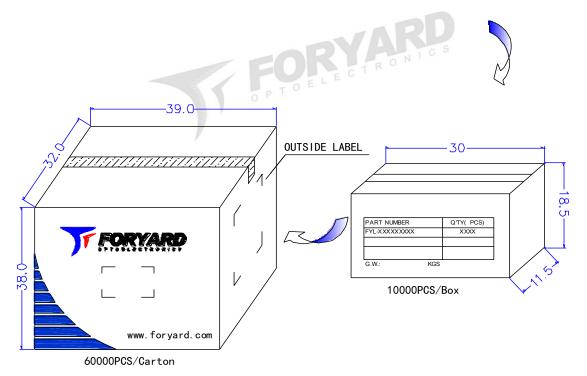
■ LAMP PACKING.







4.8mm 1000PCS/Polybag





OUTSIDE LABEL

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