

PRODUCT SPECIFICATION

Model No.: FYL-5042SURC1E

Descriptions:
■Dice material: AlGaInP.
■Emitting Color: Super bright Red.
■Device Outline:Φ5mm cylinder type.
■Lens Type: Water clear.



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

NINGBO FORYARD OPTOELECTRONICS CO.,LTD.

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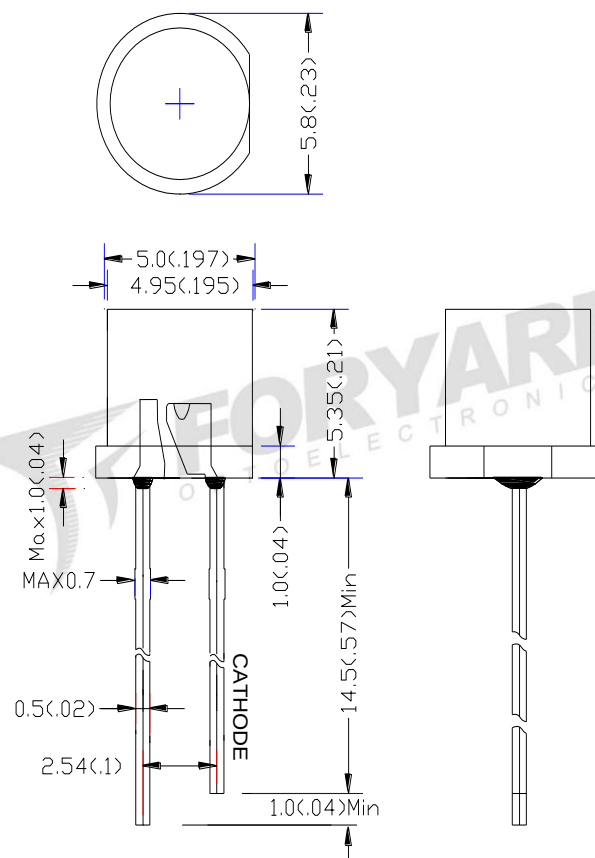
E-mail: Sales@foryard.com (General)

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

■ 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 $\pm 0.25\text{mm}$ (0.010") unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

■ Absolute maximum ratings($T_a=25^{\circ}\text{C}$)

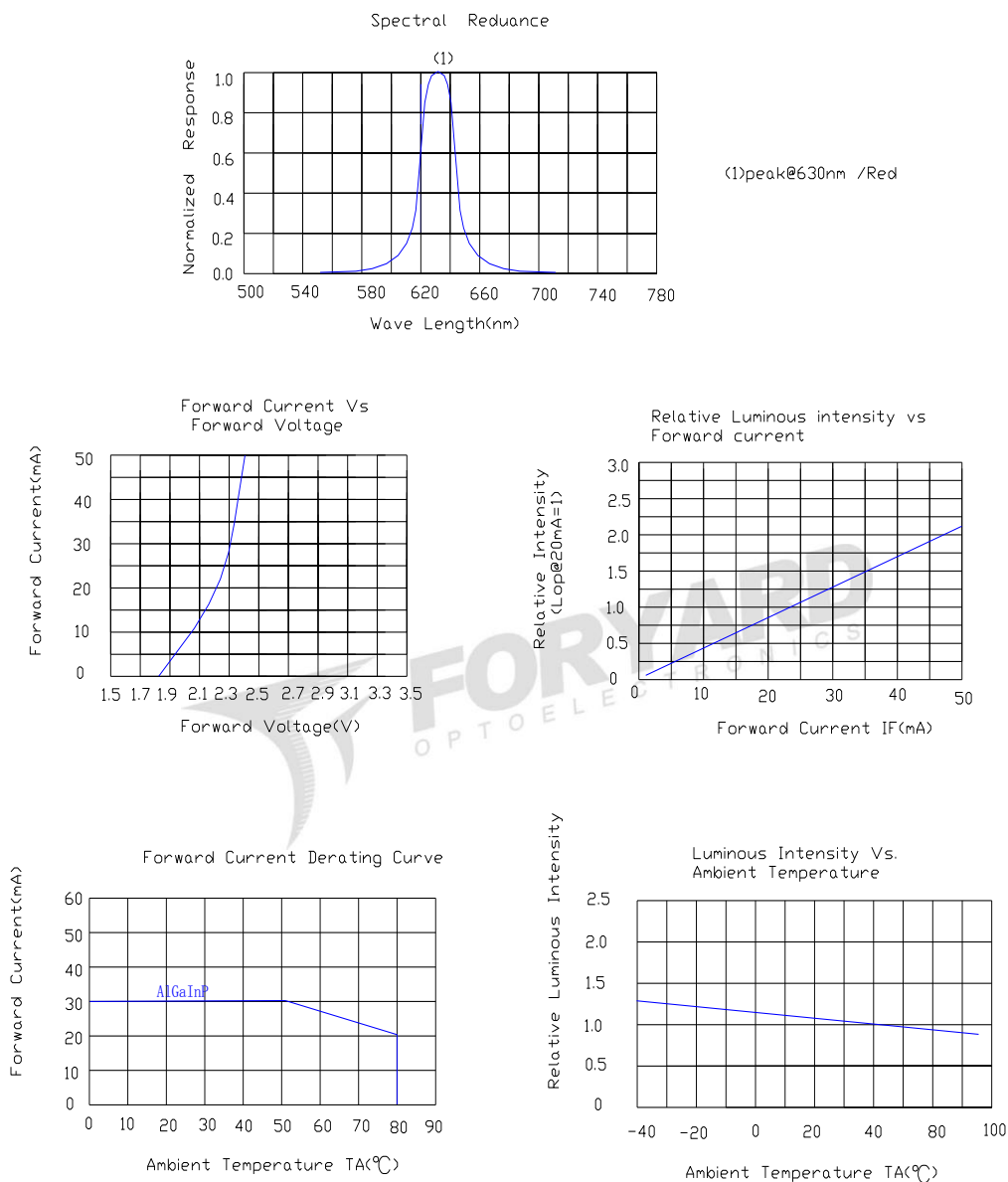
Parameter	MAX.	Unit
Power Dissipation	75	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	mA
Derating Linear From 50°C	0.4	mA/ $^{\circ}\text{C}$
Reverse Voltage	5	V
Operating Temperature Range	-40°C to $+85^{\circ}\text{C}$	
Storage Temperature Range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

■ Electrical and optical characteristics($T_a=25^{\circ}\text{C}$)

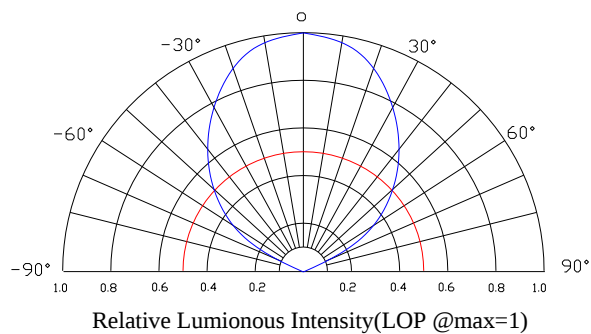
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v	200	300	—	mcd	$I_F=20\text{mA}$
Viewing Angle	$2\theta_{1/2}$	—	100	—	Deg	
Peak Emission Wavelength	λ_p	—	630	—	nm	
Dominant Wavelength	λ_d	618	625	630	nm	
Spectral Line Half-Width	$\Delta\lambda$	—	15	—	nm	
Forward Voltage	V_F	1.8	2.0	2.5	V	$V_R=5\text{V}$
Reverse Current	I_R			10	μA	

■ Typical Electrical Characteristics Curves

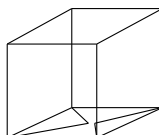
(25 ° c Ambient Temperature Unless Otherwise Noted)



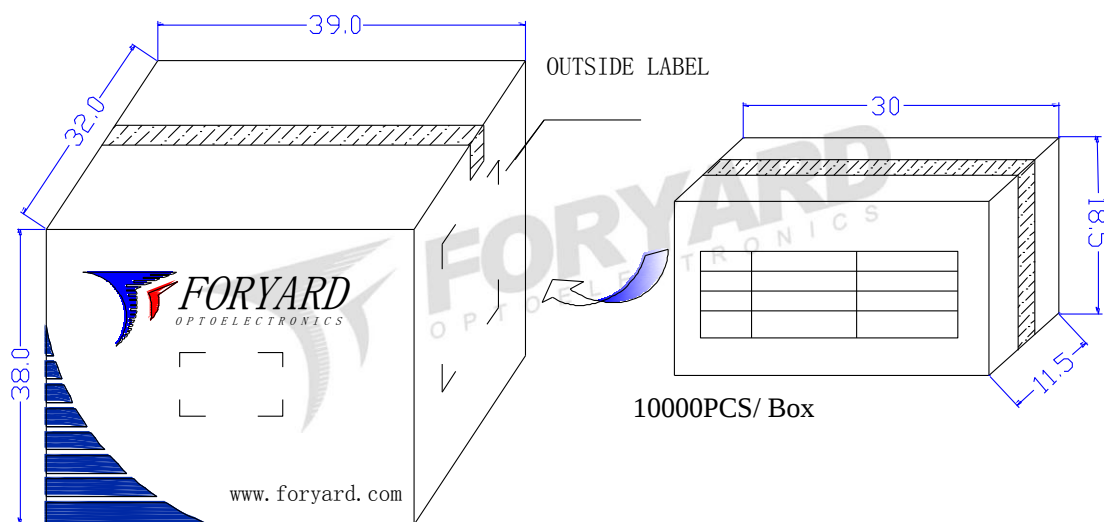
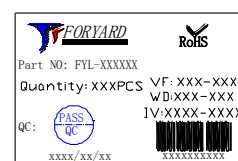
Radiation pattern.



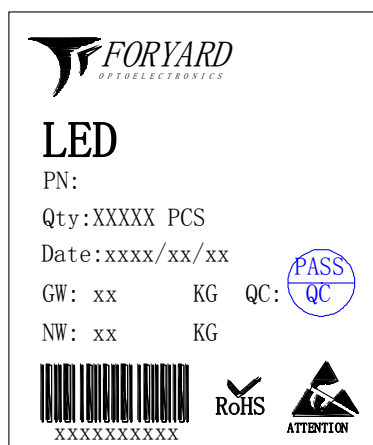
■ LAMP PACKING.



5mm 1000PCS/Polybag



60000PCS/ Carton



OUTSIDE LABEL