

PRODUCT SPECIFICATION

Model No.: FYL-5013LRD1C

Descriptions:

■ Dice material: AlGaInP.

■ Emitting Color: Bright Red.

■ Device Outline: Φ 5mm round type.

■ Lens Type: Red diffused.



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

NINGBO FORYARD OPTOELECTRONICS CO.,LTD.

Add:NO.115 Qixin Road Ningbo Zhejiang China

Zip:315051

Tel: 0086-574-87933652 87927870 87922206

Fax: 0086-574-87927917

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

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

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

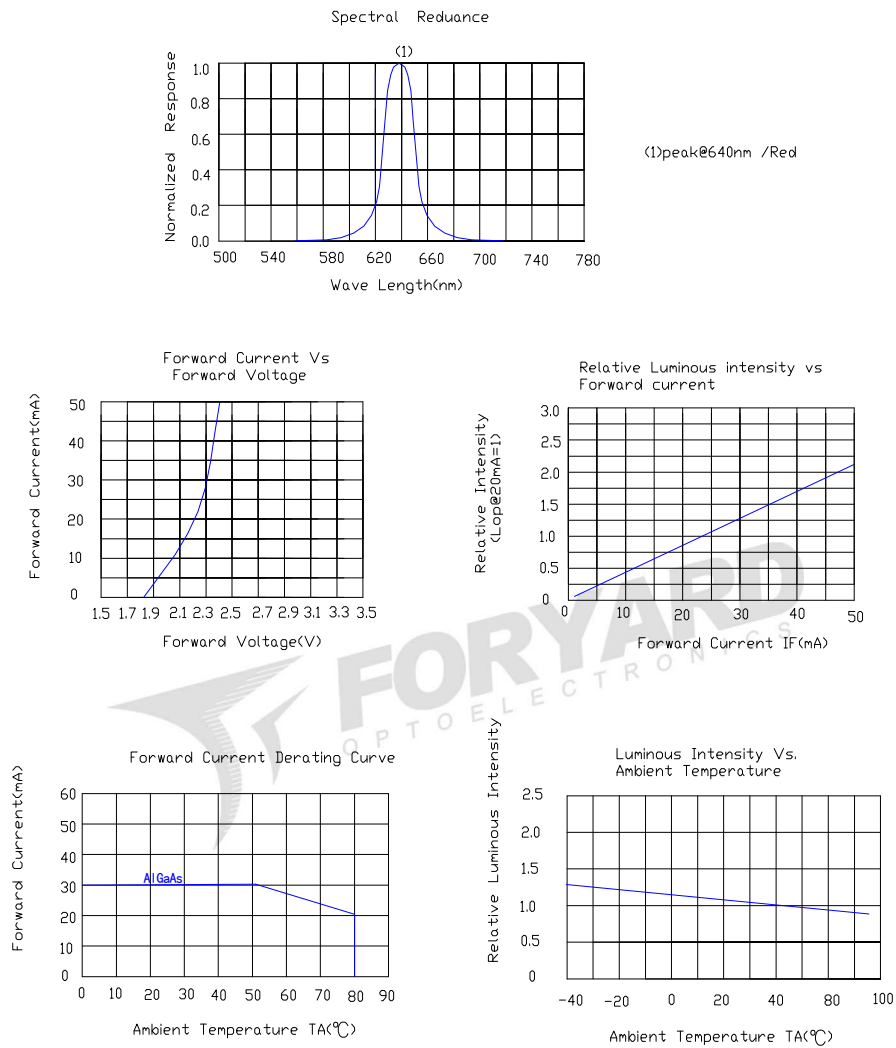
Parameter	MAX.	Unit
Power Dissipation	75	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	mA
Derating Linear From $50\text{ }^{\circ}\text{C}$	0.4	mA/ $^{\circ}\text{C}$
Reverse Voltage	5	V
Operating Temperature Range	$-20\text{ }^{\circ}\text{C}$ to $+80\text{ }^{\circ}\text{C}$	
Storage Temperature Range	$-30\text{ }^{\circ}\text{C}$ to $+100\text{ }^{\circ}\text{C}$	
Lead Soldering Temperature[4mm(.157") From Body]	$260\text{ }^{\circ}\text{C}$ for 5 Seconds	

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

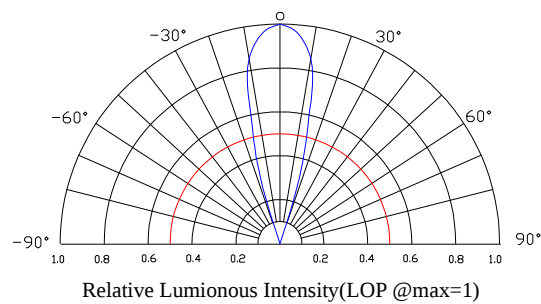
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v	–	400	–	mcd	$I_F=20\text{mA}$
Viewing Angle	$2\theta_{1/2}$	–	30	–	Deg	
Peak Emission Wavelength	λ_p	–	640	–	nm	
Dominant Wavelength	λ_d	630	635	640	nm	
Spectral Line Half-Width	$\Delta\lambda$	–	15	–	nm	
Forward Voltage	V_F	1.7	2.0	2.5	V	$V_R=5\text{V}$
Reverse Current	I_R			10	μA	

■ Typical Electrical Characteristics Curves

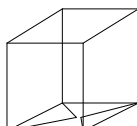
(25 °c Ambient Temperature Unless Otherwise Noted)



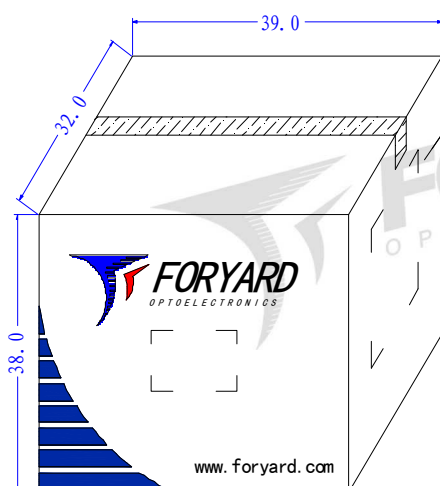
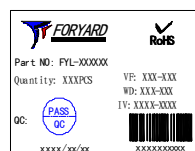
Radiation pattern.



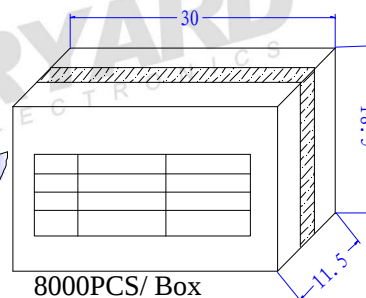
■ LAMP PACKING.



5mm 1000PCS/Polybag



OUTSIDE LABEL



48000PCS/ Carton



OUTSIDE LABEL