

# Preliminary

## LL-U26Y2C-003

### DATA SHEET



QC: 王士光

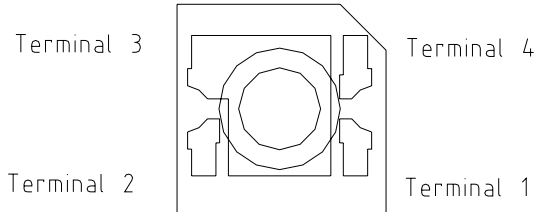
ENG: 謝嶽銳

Prepared By:

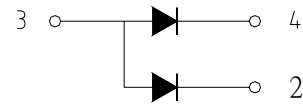
王新飛

Part No.	LL-U26Y2C-003	Spec No.	S/N-05060355	Page	1 of 4
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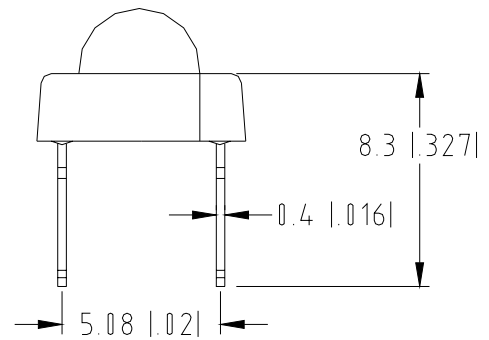
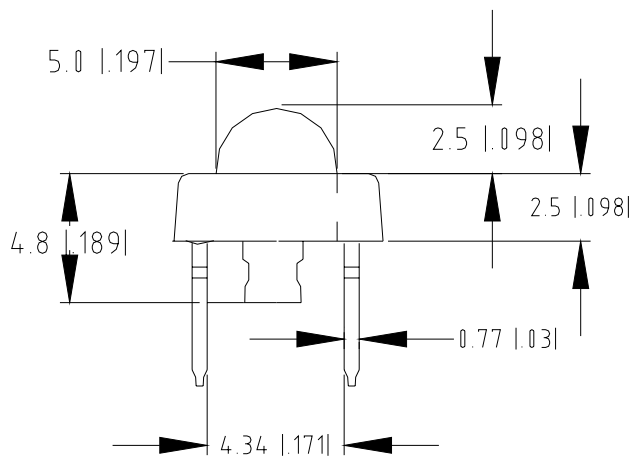
## Package Dimensions:



DIE POSITIONS



3 Common Anode  
2, 4 Cathode



Part NO.	Chip Material	Lens Color	Emission Color
LL-U26Y2C-003	AlGaInP	Water Clear	Super Bright Yellow

### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}$  (.010") unless otherwise noted.
3. Protruded resin under flange is 1.0mm (.04") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.
6. This data-sheet only valid for six months.



**Absolute Maximum Ratings at Ta=25°C**

Parameter	MAX.	Unit
Power Dissipation(Per Chip)	90	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) (Per Chip)	100	mA
Continuous Forward Current(Per Chip)	35	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage(Per Chip)	5	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	

**Electrical Optical Characteristics at Ta=25°C**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	$I_v$	1000	2200		mcd	$I_F=20\text{mA}$ (Note 1)
Viewing Angle	$2\theta_{1/2}$	65	75	85	Deg	(Note 2)
Peak Emission Wavelength	$\lambda_p$	591	596	601	nm	$I_F=20\text{mA}$
Dominant Wavelength	$\lambda_d$	588	593	598	nm	$I_F=20\text{mA}$ (Note 3)
Spectral Line Half-Width	$\Delta\lambda$	10	15	20	nm	$I_F=20\text{mA}$
Forward Voltage(Per Chip)	$V_f$	1.7	2.05	2.6	V	$I_F=20\text{mA}$
Reverse Current(Per Chip)	$I_R$			50	$\mu\text{A}$	$V_R=5\text{V}$

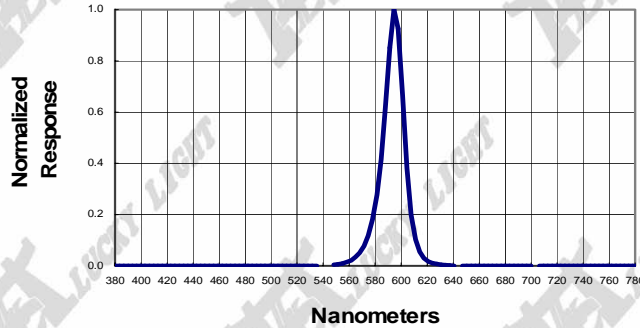
**Notes:**

- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- The dominant wavelength ( $\lambda_d$ ) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- Forward voltage measurement allowance is  $\pm 0.1\text{V}$ .
- Luminous Intensity Measurement Allowance is  $\pm 10\%$ .

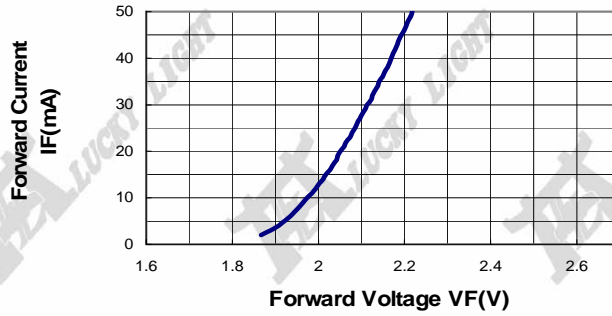


**Typical Electrical / Optical Characteristics Curves**  
 (25°C Ambient Temperature Unless Otherwise Noted)

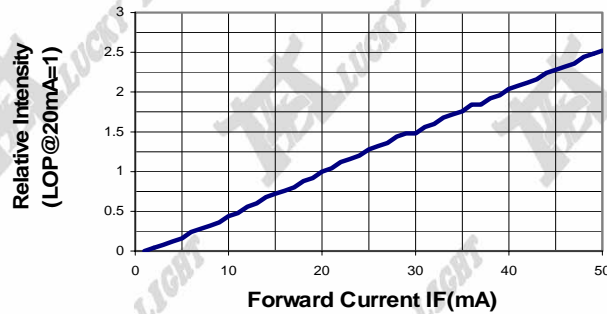
**Spectral Radiance (Peak @ 596nm)**



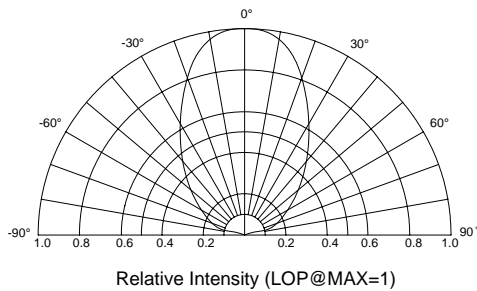
**Forward Current vs Forward Voltage**



**Relative Luminous Intensity vs Forward Current**



**Beam Pattern**



**Forward Current Derating Curve**

