

# Preliminary

## LL-U26Y1C-009

### DATA SHEET



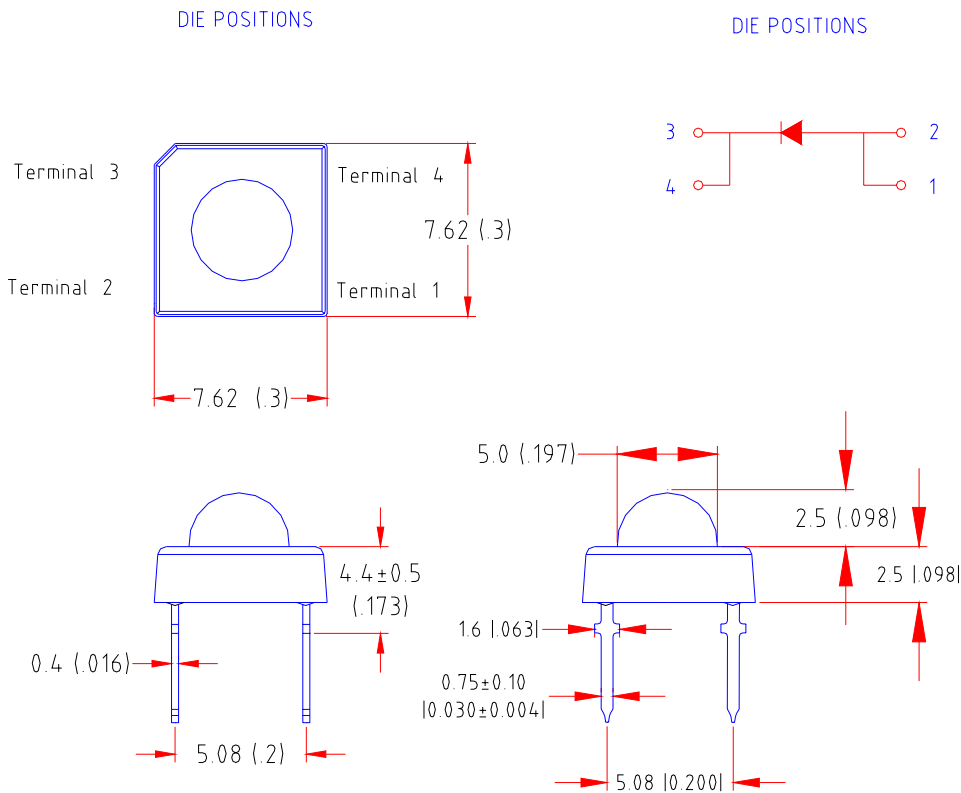
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## Package Dimensions:



Part NO.	Chip Material	Lens Color	Emission Color
LL-U26Y1C-009	AlGaInP	Water Clear	Super Bright Yellow

### Notes:

- All dimensions are in millimeters (inches).
- Tolerance is  $\pm 0.25\text{mm}$  (.010") unless otherwise noted.
- Protruded resin under flange is 1.0mm (.04") max.
- Lead spacing is measured where the leads emerge from the package.
- Specifications are subject to change without notice.
- Precautions for ESD:

Static electricity and surges can damage the LED. It is recommended to use an anti-electrostatic wrist band or glove when handling the LED. All devices, equipment and machinery must be properly grounded.

- This data-sheet only valid for six months.



**Absolute Maximum Ratings at 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	35	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	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	$I_V$	460	1100		mcd	$I_F=20mA$ (Note 1)
Viewing Angle	$2\theta_{1/2}$	65	75	85	Deg	(Note 2)
Peak Emission Wavelength	$\lambda_p$	587	592	597	nm	$I_F=20mA$
Dominant Wavelength	$\lambda_d$	586	591	596	nm	$I_F=20mA$ (Note 3)
Spectral Line Half-Width	$\Delta\lambda$	15	20	25	nm	$I_F=20mA$
Forward Voltage	$V_F$	2.0	2.1	2.5	V	$I_F=20mA$
Reverse Current	$I_R$			50	$\mu A$	$V_R=5V$

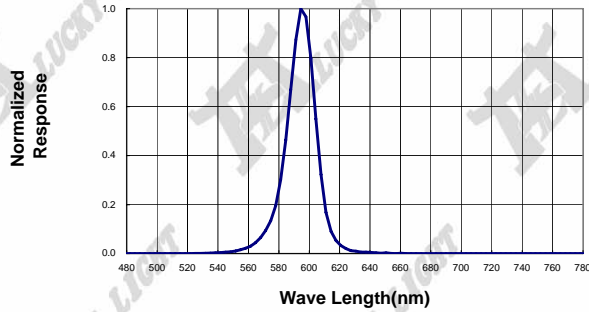
**Notes:**

- 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  $\pm 0.1V$
- Luminous Intensity Measurement Allowance is  $\pm 10\%$ .

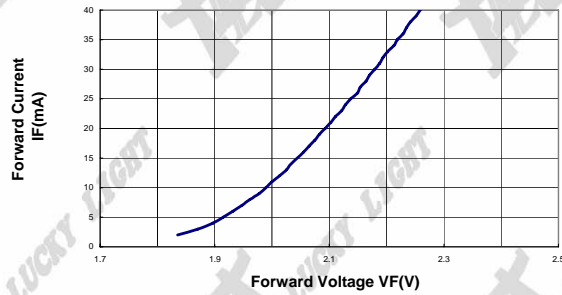


**Typical Electrical / Optical Characteristics Curves**  
 (25°C Ambient Temperature Unless Otherwise Noted)

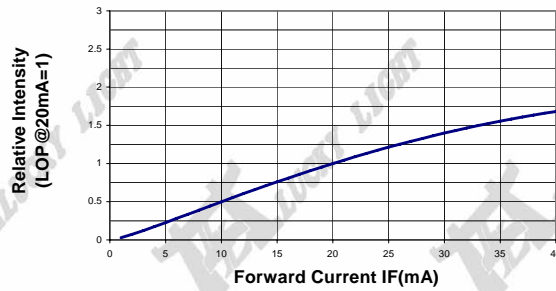
**Spectral Radiance (Peak @ 592 nm)**



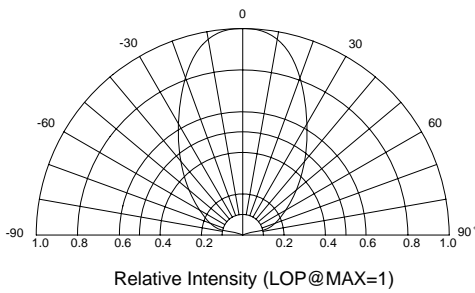
**Forward Current vs Forward Voltage**



**Relative Luminous Intensity vs Forward Current**



**Beam Pattern**



**Forward Current Derating Curve**

