

# **LL-304PGC2E-G5-1AC**

## **DATA SHEET**

QC:

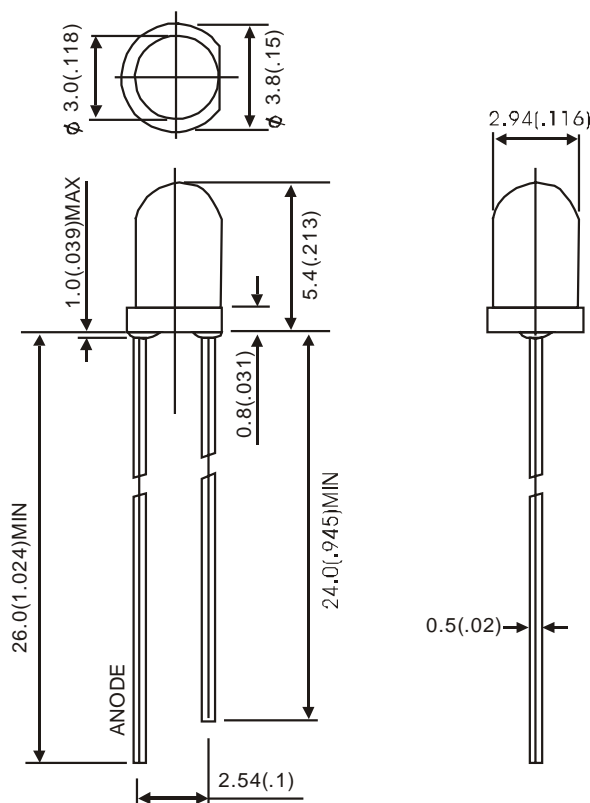
ENG:

Prepared By:

## Features

- ◆ High intensity
- ◆ Standard T-1 diameter package
- ◆ General purpose leads
- ◆ Reliable and rugged

## Package Dimension:



Part NO.	Lens Color	Source Color
LL-304PGC2E-G5-1AC	Water Clear	Super Bright True Green

### Notes:

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

Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

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

Parameter	MAX.	Unit
Power Dissipation	100	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	-40°C to +80°C	
Storage Temperature Range	-40°C to +80°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 <sub>v</sub>	3000	4000	---	mcd	I <sub>F</sub> =20mA (Note 1)
Viewing Angle	2 $\theta_{1/2}$	15	20	25	Deg	(Note 2)
Peak Emission Wavelength	$\lambda_p$	---	520	---	nm	I <sub>F</sub> =20mA
Dominant Wavelength	$\lambda_d$	515	525	535	nm	I <sub>F</sub> =20mA (Note 3)
Spectral Line Half-Width	$\Delta \lambda$	---	34	---	nm	I <sub>F</sub> =20mA
Forward Voltage	V <sub>F</sub>	2.8	3.6	4.0	V	I <sub>F</sub> =20mA
Reverse Current	I <sub>R</sub>	---	---	100	μA	V <sub>R</sub> =5V

#### Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength ( $\lambda_d$ ) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

## Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

