



LUCKY LIGHT

LL-503GT2E-009

DATA SHEET

CHECK BY:

MODIFIED BY: 潘冬梅

DATE: 2000/07/28

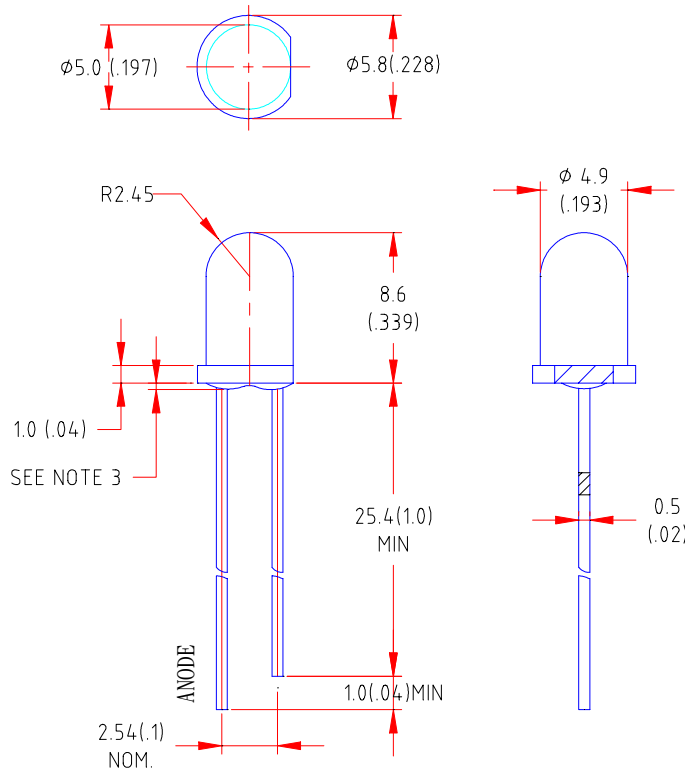
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Features

- ◆ High intensity
- ◆ Popular T-1 3/4 diameter package
- ◆ Selected minimum intensities
- ◆ Wide viewing angle
- ◆ General purpose leads
- ◆ Reliable and rugged

Package Dimension:



Part NO. LL-	Lens Color	Source Color
503GT2E-009	Green Transparent	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



Absolute Maximum Ratings at Ta=25°C

Parameter	LL-503GT2E-009	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	20	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_v		800		mcd	$I_f=20\text{mA}$ Note 1
Viewing Angle	$2\theta_{1/2}$		18		Deg	Note 2
Peak Emission Wavelength	λ_p		572		nm	Measurement @Peak
Dominant Wavelength	λ_d		571		nm	Note 3
Spectral Line Half-Width	$\Delta\lambda$		19		nm	
Forward Voltage	V_f		2.05	2.60	V	$I_f=20\text{mA}$
Reverse Current	I_R			100	μA	$V_R=5\text{V}$

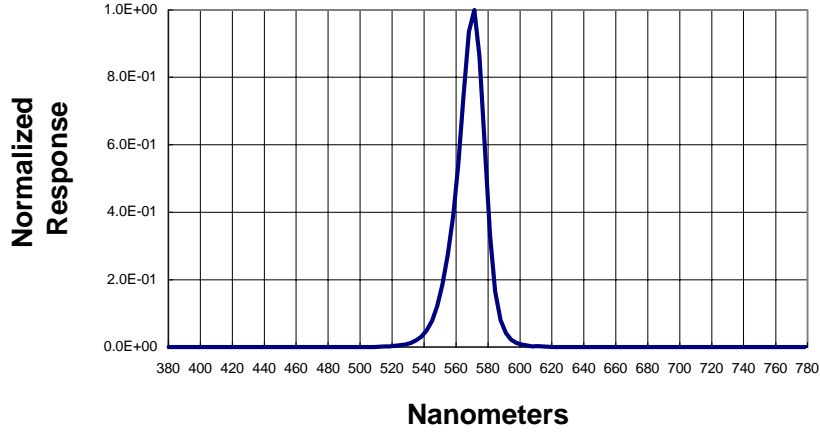
Note:

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, λ_d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

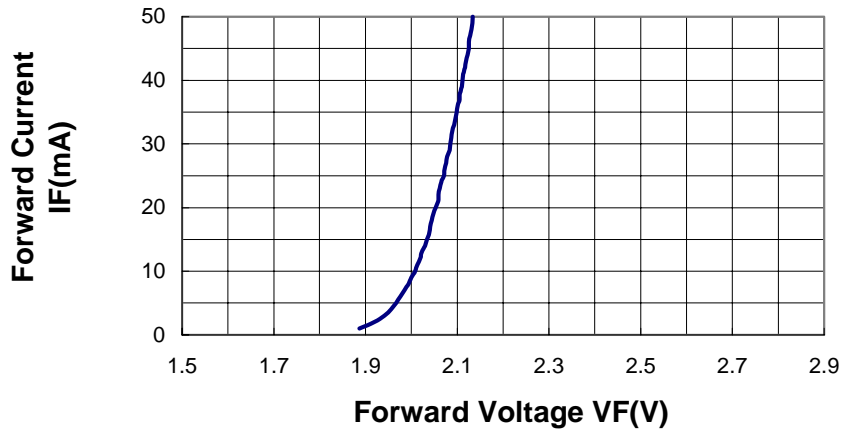


Typical Electrical / Optical Characteristics Curves
(25°C Ambient Temperature Unless Otherwise Noted)

Spectral Radiance Peak @ 572nm



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current

