

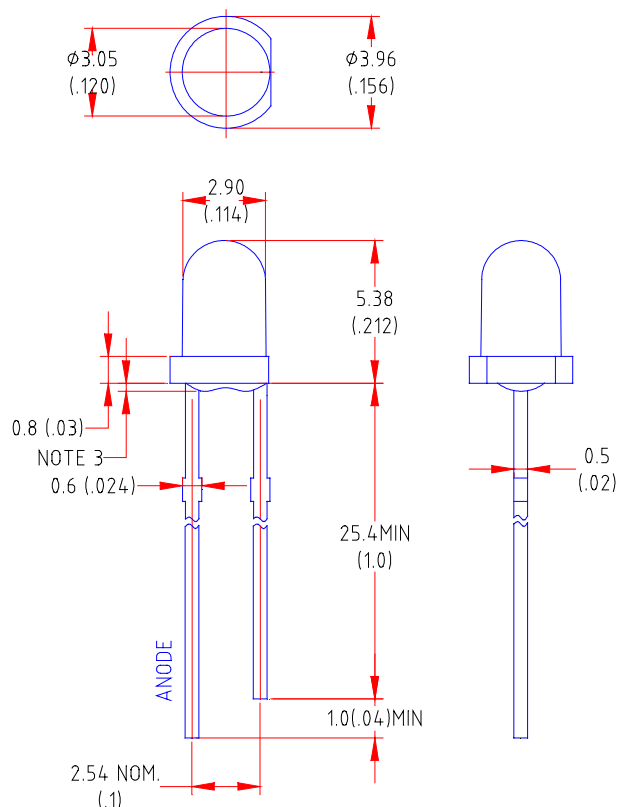


LUCKY LIGHT

Features

- ◆ Standard T-1 diameter package
- ◆ Wide viewing angle
- ◆ General purpose leads
- ◆ Reliable and rugged

Package Dimension:



Part NO.	Lens Color	Source Color
LL-304AD2D-002	Amber Diffused	Amber

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 (.010") mm 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



LUCKY LIGHT

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	50	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	---	387	---	mcd	I _F =20mA (Note 1)
Viewing Angle	2θ _{1/2}	---	36	---	Deg	(Note 2)
Peak Emission Wavelength	λ _p	---	640	---	nm	I _F =20mA
Dominant Wavelength	λ _d	---	626	---	nm	I _F =20mA (Note 3)
Spectral Line Half-Width	△λ	---	30	---	nm	I _F =20mA
Forward Voltage	V _F	---	2.0	2.5	V	I _F =20mA
Reverse Current	I _R	---	---	100	μA	V _R =5V

Note:

- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ_{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.

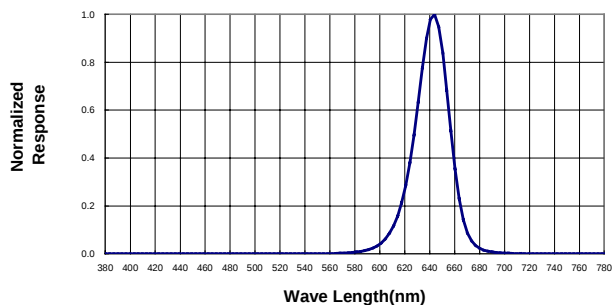
Part No.	LL-304AD2D-002	Spec No.	S/N-01062004D	Page	3 of 4
----------	----------------	----------	---------------	------	--------



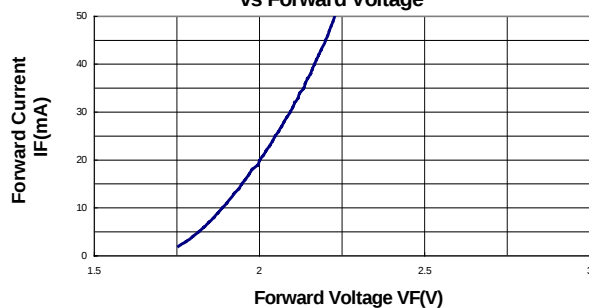
LUCKY LIGHT

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

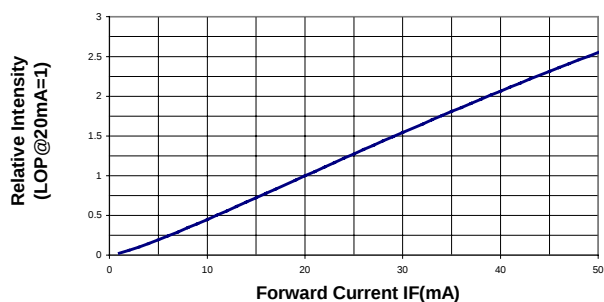
Spectral Radiance (Peak @640 nm)



Forward Current
vs Forward Voltage



Relative Luminous Intensity
vs Forward Current



Beam Pattern

