



LUCKY LIGHT

LL-304SD2T

DATA SHEET

QC:

ENG:

Prepared By:

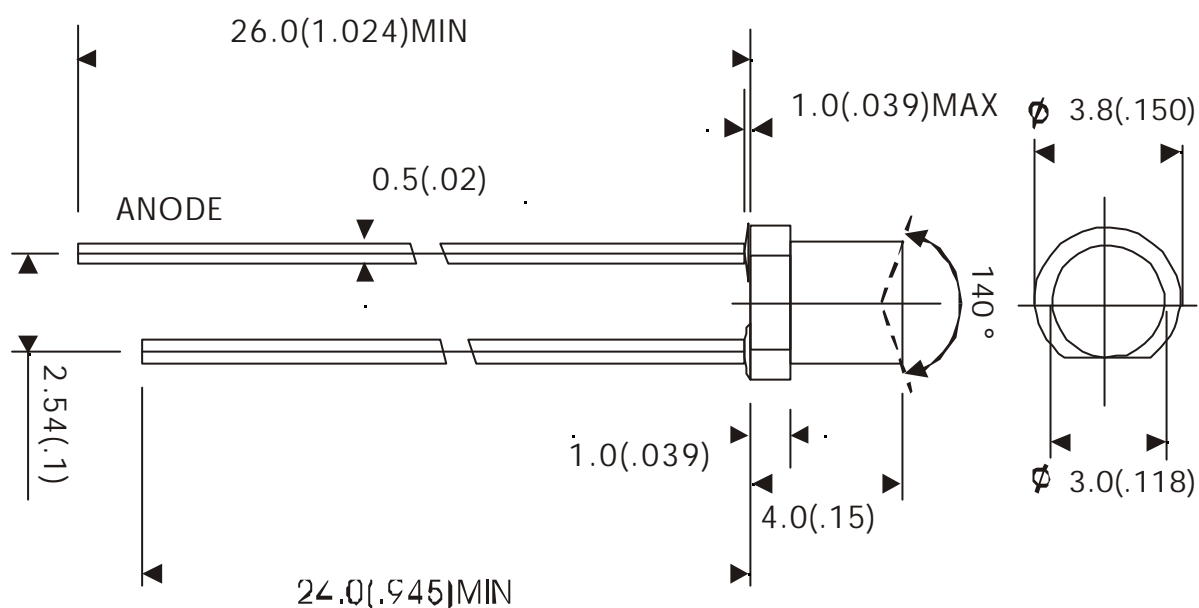
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Features

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

Package Dimension:



Part NO.	Lens Color	Source Color
LL-304SD2T	Red Diffused	Super Bright Red

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 1.0mm(.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?**

Parameter	MAX.	Unit
Power Dissipation	110	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	20	mA
Continuous Forward Current	40	mA
Derating Linear From 50?	0.4	mA/?
Reverse Voltage	5	V
Operating Temperature Range	-40? to +80?	
Storage Temperature Range	-40? to +80?	
Lead Soldering Temperature [4mm(.157") From Body]	260? for 5 Seconds	

Electrical Optical Characteristics at Ta=25?

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	30	38	---	mcd	I _F =20mA (Note 1)
Viewing Angle	2? _{1/2}	---	170	---	Deg	(Note 2)
Peak Emission Wavelength	? p	655	660	665	nm	I _F =20mA
Dominant Wavelength	? d	637	642	647	nm	I _F =20mA (Note 3)
Spectral Line Half-Width	? ?	19	24	29	nm	I _F =20mA
Forward Voltage	V _F	1.5	2.0	2.8	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. ? _{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (? d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

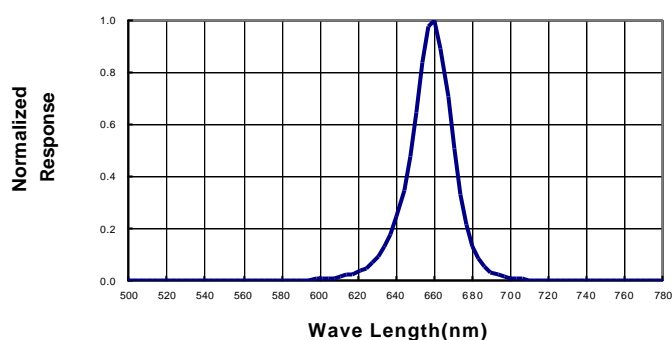


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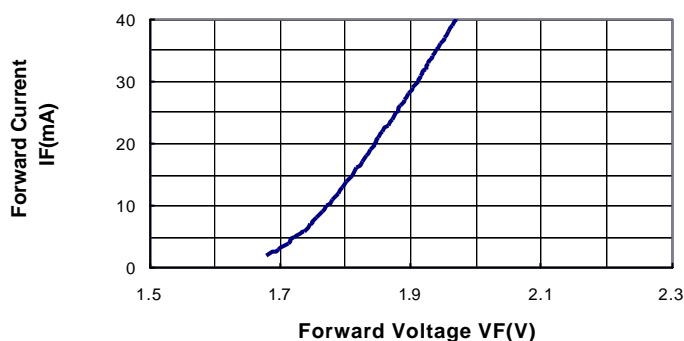
Typical Electrical / Optical Characteristics Curves

(25° Ambient Temperature Unless Otherwise Noted)

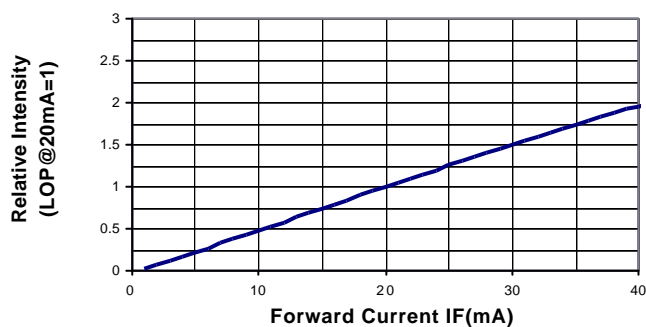
Spectral Radiance (Peak @ 660nm)



Forward Current
vs Forward Voltage



Relative Luminous Intensity
vs Forward Current



Beam Patter

