



LUCKY LIGHT

LL - 304SGM3B - 003

DATA SHEET

QC :

ENG :

Prepared By:

Part No.	LL-304SGM3B-003	Spec No.	S/N-01070344D	Page	1 of 5
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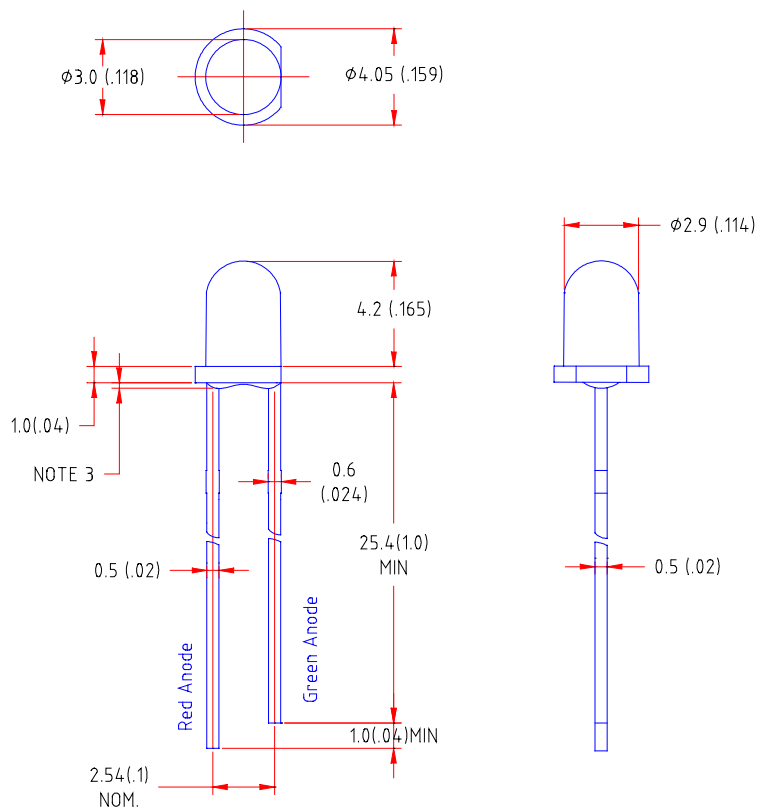


LUCKY LIGHT

Features

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

Package Dimension:



Part NO.	Lens Color	Source Color
LL-304SGM3B-003	White Diffused	Red & Green

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



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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	40	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	Emitting Color	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	Green		37		mcd	I _f =20mA Note 1
		Red		30			
Viewing Angle	2θ _{1/2}	Green		75		Deg	Note 2
		Red		75			
Peak Emission Wavelength	λ _p	Green		568		nm	I _f =20mA
		Red		660			
Dominant Wavelength	λ _d	Green		572		nm	I _f =20mA Note 3
		Red		645			
Spectral Line Half-Width	Δλ	Green		29		nm	I _f =20mA
		Red		25			
Forward Voltage	V _F	Green		2.2	2.5	V	I _f =20mA
		Red		1.9	2.50		
Reverse Current	I _R	Green			100	μA	V _R =5V
		Red					

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.



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

