



*LUCKY LIGHT*

LL-308IGM2E

DATA SHEET

QC:

ENG:

Prepared By:

Part No.	LL-308IGM2E	Spec No.	S/N-031104015D	Page	1 of 5
----------	-------------	----------	----------------	------	--------

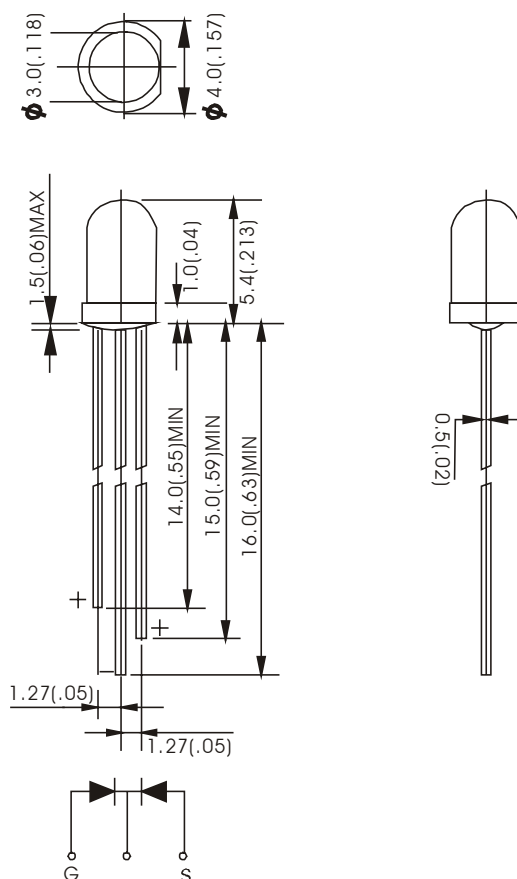


LUCKY LIGHT

## Features

- ◆ Standard T-1 3/4 diameter package
- ◆ Wide viewing angle
- ◆ General purpose leads
- ◆ Reliable and rugged

## Package Dimension:



Part NO.	Lens Color	Source Color
LL-308IGM2E	White Diffused	Red & 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



**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	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 <sub>v</sub>	Red	30	50	---	mcd	I <sub>F</sub> =20mA Note 1
		Green	22	48	---		
Viewing Angle	2θ <sub>1/2</sub>	Red	---	35	---	Deg	Note 2
		Green	---	35	---		
Peak Emission Wavelength	λ <sub>p</sub>	Red	---	644	---	nm	Measurement @Peak
		Green	---	565	---		
Dominant Wavelength	λ <sub>d</sub>	Red	---	626	---	nm	Note 3
		Green	---	572	---		
Spectral Line Half-Width	△λ	Red	---	42	---	nm	
		Green	--	30	---		
Forward Voltage	V <sub>F</sub>	Red	---	1.9	2.8	V	I <sub>F</sub> =20mA
		Green	---	2.1	2.8		
Reverse Current	I <sub>R</sub>	Red	---	---	100	μA	V <sub>R</sub> =5V
		Green					

Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ<sub>1/2</sub> is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (λ<sub>d</sub>) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.



LUCKY LIGHT

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

