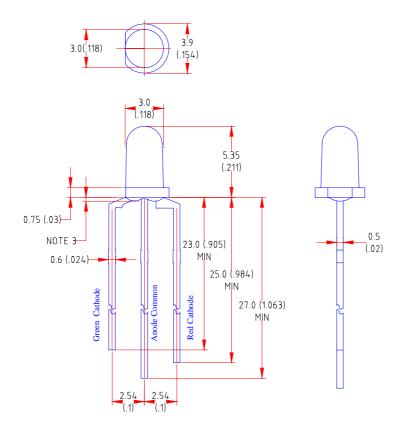


Features

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

Package Dimension:



Part NO.	Lens Color	Source Color	
LL-309SGM2A-001	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 1.0mm(.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℃

Parameter	MAX.	Uni t	
Power Dissipation	100	mW	
Peak Forward Current (1/10 Duty Cycle, O.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℃

Parameter	Symbol	Emitting Color	Mi n.	Тур.	Max.	Uni t	Test Condition	
Luminous Intensity	Iv	Green		30		mad	I _f =20mA	
		Red		60		mcd	Note 1	
Viewing Angle	2 θ _{1/2}	Green		90		Dog	Note 2	
		Red		90		Deg	Note 2	
Peak Emission Wavelength	λp	Green		564		nm	Measurement	
		Red		660		1 11111	@Peak	
Dominant Wavelength	λd	Green		570		nm	Note 3	
		Red		635		1 11111	Note 5	
Spectral Line Half- Width	Δλ	Green		30		nm		
		Red		25		1 11111		
Forward Voltage	V _F	Green	1.7	2.2	2.6	V	I _2∩m∧	
		Red	1.5	1.85	2.4	V	I _F =20mA	
Reverse Current	I _R	Green			100		V -5V	
		Red			100	μΑ	$V_R=5V$	

Note:

- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{\rm 1/2}$ 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)

