LL-304SGC2A-004

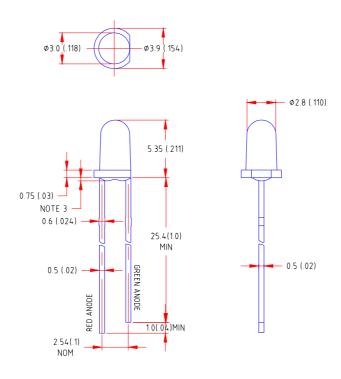
DATA SHEET

QC: ENG: Prepared By:

Features

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

Package Dimension:



Part NO.	Chip Material		Lens Color	Source Color	
LL-304SGC2A-	Red	Green	Water Clear	Red & Green	
004	AlGaAs	GaP	water Clear		

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.
- **6.** This data-sheet only valid for six months.

Part No.	LL-304SGC2A-004	Spec No.	S/N-02032027D	Page	2 of 5
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Absolute Maximum Ratings at Ta=25

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	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		

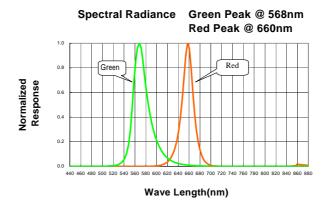
Electrical Optical Characteristics at Ta=25

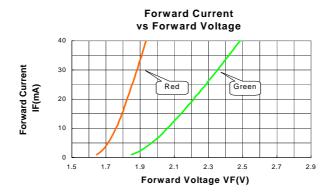
Parameter	Symbol	Emitting Color	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	lv -	Green	90	190	400	mcd	$I_f=20$ mA	
		Red	160	350	700		Note 1	
Viewing Angle	2 1/2	Green	27	32	40	Deg	Note 2	
		Red	27	32	40			
Peak Emission Wavelength	р	Green	563	568	573	nm	I=20mA	
		Red	655	660	665		TF=ZUIIIA	
Dominant Wavelength	d	Green	566	570	576	nm	I=20mA Note 3	
		Red	635	640	645			
Spectral Line Half-Width		Green	24	29	34	nm	I=20mA	
		Red	19	24	29			
Forward Voltage	V _F	Green	1.6	2.2	2.6	V	I _F =20mA	
		Red	1.5	1.85	2.4		I F=ZUIIIA	
Reverse Current	l R	Green			100	μА	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. $_{1/2}$ 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.

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





Relative Luminous Intensity vs Forward Current

