

LL-304SGC2A-004

DATA SHEET

QC :

ENG :

Prepared By:

Part No.	LL-304SGC2A-004	Spec No.	S/N-02032027D	Page	1 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

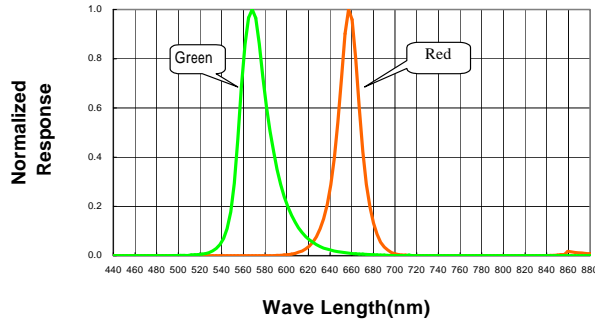
Parameter	Symbol	Emitting Color	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	Green	90	190	400	mcd	I _f =20mA Note 1
		Red	160	350	700		
Viewing Angle	2 _{1/2}	Green	27	32	40	Deg	Note 2
		Red	27	32	40		
Peak Emission Wavelength	ρ	Green	563	568	573	nm	I _f =20mA
		Red	655	660	665		
Dominant Wavelength	d	Green	566	570	576	nm	I _f =20mA Note 3
		Red	635	640	645		
Spectral Line Half-Width		Green	24	29	34	nm	I _f =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		
Reverse Current	I _R	Green	---	---	100	μA	V _R =5V
		Red					

Note:

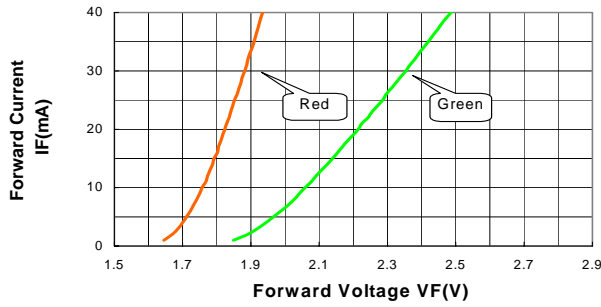
- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. _{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.The dominant wavelength (d) is derived from the CIE chromaticity diagram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

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

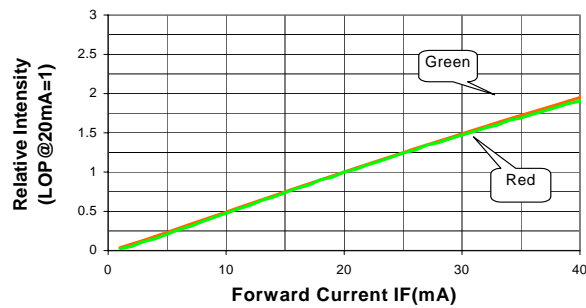
Spectral Radiance Green Peak @ 568nm
 Red Peak @ 660nm



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



Beam Pattern

