

LL-304HD2G

DATA SHEET

QC: ENG: Prepared By:

Part No. LL-304HD2G Spec No. S/N-R23	Part No.	-304HD2G	Spec No.	S/N-R23	Page	1 of 4
--	----------	----------	----------	---------	------	--------

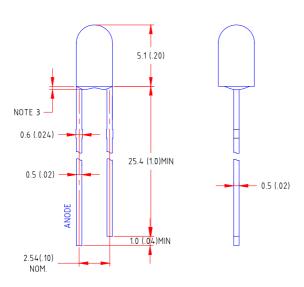


Features

- ♦ High intensity
- ♦ Normal 3mm diameter package
- ♦ General purpose leads
- ♦ Reliable and rugged

Package Dimension:





Part NO. Material		Lens Color	Source Color	
LL-304HD2G	GaP	Red Diffused	Red	

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

Part No.	LL-304HD2G	Spec No.	S/N-R23	Page	2 of 4
----------	------------	----------	---------	------	--------



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	50	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	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	Iv	0.4	0.6		mcd	I=20mA (Note 1)	
Viewing Angle	2 \theta 1/2	30	35	40	Deg	(Note 2)	
Peak Emission Wavelength	λр		700		mA	I=20mA	
Dominant Wavelength	λd		697		nm	I _F =20mA (Note 3)	
Spectral Line Half-Width	Δλ		90		nm	I==20mA	
Forward Voltage	V _F	1.7	2.1	2.80	V	I=20mA	
Reverse Current	IR			100	μA	V _R =5V	

Note:

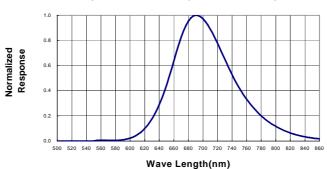
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength (λ d) is derived from the CIE chromaticity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

Part No.	LL-304HD2G	Spec No.	S/N-R23	Page	3 of 4
----------	------------	----------	---------	------	--------

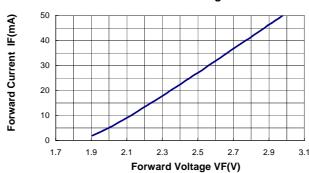


Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

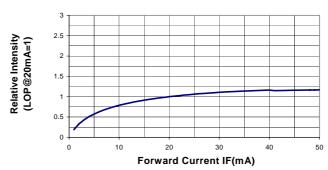
Spectral Radiance (Peak @ 700nm)



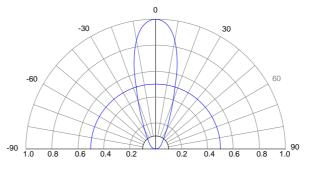
Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current







Relative Intensity (LOP@MAX=1)