

LL-304SC2E-006

DATA SHEET

QC: ENG: Prepared By:

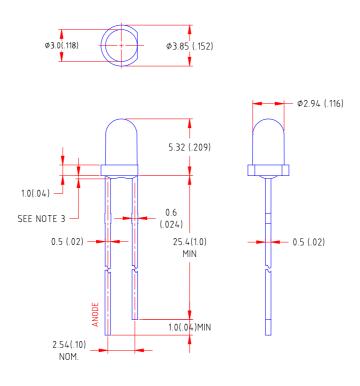
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Features

- ♦ High intensity
- ♦ 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-304SC2E-006	AlGaAs	Water Clear	Super Bright 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.
- 6. This data-sheet only valid for six months.

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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	Min.	Тур.	Max.	Uni t	Test Condition
Luminous Intensity	Iv	65	140	290	mcd	I _F =20mA (Note 1)
Viewing Angle	2 <i>H</i> 1/2	19	24	29	Deg	(Note 2)
Peak Emission Wavelength	λр	655	660	665	nm	I ==20mA
Dominant Wavelength	λd	639	644	649	nm	I _F =20mA (Note 3)
Spectral Line Half-Width	Δλ	19	24	29	nm	I ==20mA
Forward Voltage	V _F	1.5	1.85	2.4	V	I ==20mA
Reverse Current	l R			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. $\theta_{1/2}$ 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°) Ambient Temperature Unless Otherwise Noted)

