



DATA SHEET

QC:

ENG:

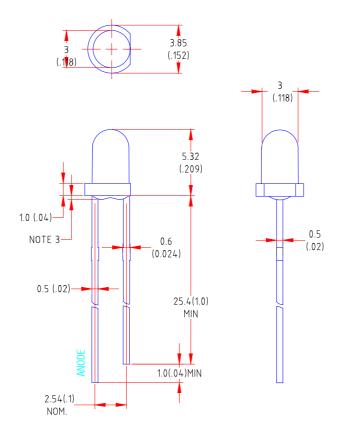
Prepared By:



Features

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

Package Dimension:



Part NO.	Lens Color	Source Color		
LL-304SD2E-002	Red Diffused	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

Part No.	LL-304SD2E-002	Spec No.	S/N-01070302D	Page	2 of 4
----------	----------------	----------	---------------	------	---------------



Absolute Maximum Ratings at Ta=25℃

Parameter	MAX.	Uni t	
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°C	0.4	mA/°C	
Reverse Voltage	5	V	
Operating Temperature Range	-40°C to +80°	-40°C to +80°C	
Storage Temperature Range	-40°C to +80°	-40°C to +80°C	
Lead Soldering Temperature [4mm(.157") From Body]	260℃ for 5 Sec	$260^\circ\!\!\mathbb{C}$ for 5 Seconds	

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max.	Uni t	Test Condition
Luminous Intensity	١v		66		mcd	I _F =20mA (Note 1)
Viewing Angle	$2 heta$ $_{\scriptscriptstyle 1/2}$		44		Deg	(Note 2)
Peak Emission Wavelength	λp		660		nm	I _F =20mA
Dominant Wavelength	λd		640		nm	I _F =20mA (Note 3)
Spectral Line Half-Width	$ riangle \lambda$		24		nm	I _F =20mA
Forward Voltage	$V_{\rm F}$		1.85	2.4	V	I _F =20mA
Reverse Current	I _R			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.



