



DATA SHEET

QC:

ENG:

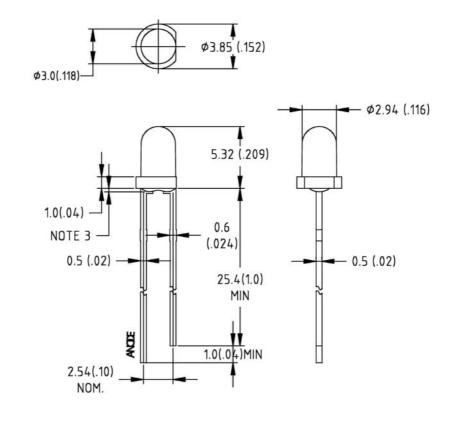
Prepared By:



Features

- ♦ High intensity
- ♦ Standard T-1 diameter package
- ♦ viewing angle=25°
- ◆ Reliable and rugged

Package Dimension:



Part NO.	Material	Lens Color	Source Color
LL-304VC2E-005	AlGaInP	Water Clear	Ultra 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 $1.\,0\text{mm}\,(.\,04\,"\,)$ max
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice

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Absolute Maximum Ratings at Ta=25 $\ensuremath{\mathbb{C}}$

Parameter	MAX.	Unit	
Power Dissipation	100	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA	
Continuous Forward Current	35	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℃ to +80℃		
Lead Soldering Temperature [4mm(.157") From Body]	260℃ for 5 Seconds		

Electrical Optical Characteristics at $Ta{=}25\,^\circ\!\!\mathrm{C}$

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	1200	1700	2500	mcd	$\rm I_{\scriptscriptstyle F}\!=\!20mA$ (Note 1)
Viewing Angle	$2 \theta_{_{1/2}}$		20	25	Deg	(Note 2)
Peak Emission Wavelength	λp	631	636	641	nm	$I_F=20$ mA(Note 3)
Spectral Line Half-Width	$\bigtriangleup \lambda$	15	20	25	nm	$I_{\rm F}=20{\rm mA}$
Forward Voltage	$V_{\rm F}$	1.8	2.2	2.6	V	$I_{\rm F}=20{\rm mA}$
Reverse Current	I_{R}			100	μĄ	V _R =5V

Note:

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

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