



DATA SHEET

QC:

ENG:

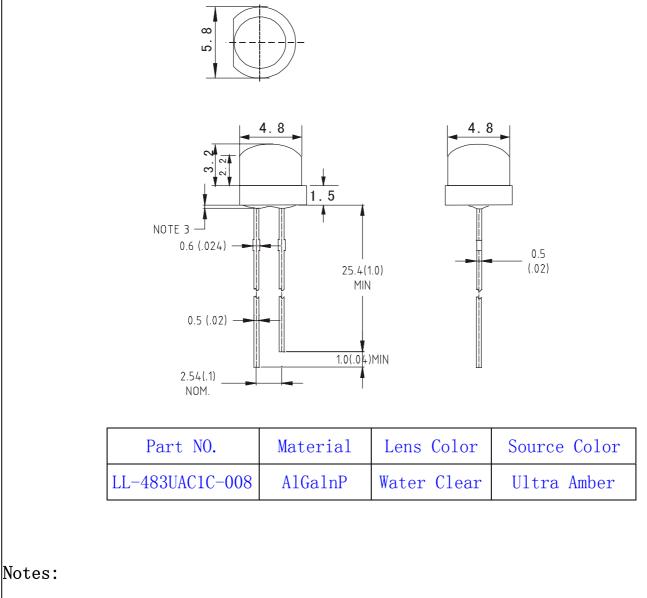
Prepared By:



## Features

- ♦ High intensity
- ◆ 4.8mm diameter package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ◆ Reliable and rugged

# Package Dimension:



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25(.010")$  mm unless otherwise noted.
- 3. Protruded resin under flange is  $1.\,0\text{mm}\,(.\,04^{\,\prime\prime}\,)$  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 $\mathrm{Ta}{=}25\,\mathrm{^\circ\!C}$

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℃	0.4	mA∕ °C			
Reverse Voltage	5	V			
Operating Temperature Range	-40°C to +80°	-40℃ to +80℃			
Storage Temperature Range	-40°C to +80°	-40℃ to +80℃			
Lead Soldering Temperature [4mm(.157") From Body]	260℃ for 5 Sec	260℃ for 5 Seconds			

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	400	800	1400	mcd	$\rm I_{\scriptscriptstyle F}\!=\!20mA$ (Note 1)
Viewing Angle	$2 \ \theta_{_{1/2}}$	110	115	120	Deg	(Note 2)
Peak Emission Wavelength	λp		605	610	nm	$I_F=20mA$ (Note 3)
Spectral Line Half-Width	$\bigtriangleup \lambda$	15	20	25	nm	$I_{\rm F}$ =20mA
Forward Voltage	$V_{\rm F}$	1.7	2.0	2.6	V	I <sub>F</sub> =20mA
Reverse Current	$I_R$			100	μĄ	V <sub>R</sub> =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. Peak Emission wavelength  $(\lambda p)$  is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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