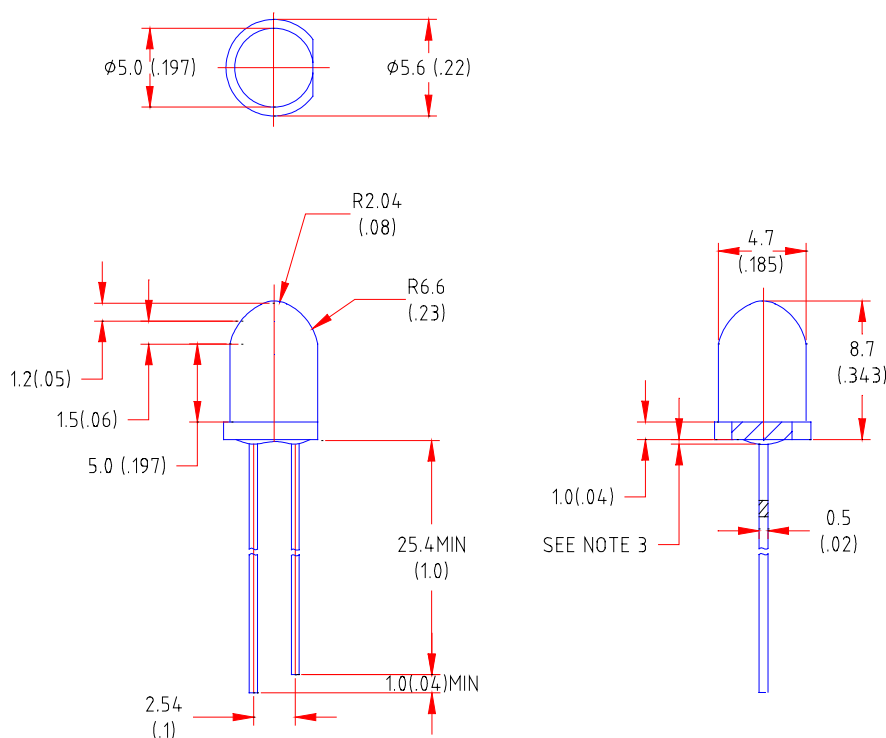


Features

- ◆ High intensity
- ◆ Popular bullet head type diameter package
- ◆ Selected minimum intensities
- ◆ Wide viewing angle
- ◆ General purpose leads
- ◆ Reliable and rugged

Package Dimension:



Part NO. LL-	Lens Color	Source Color
583YC1F-006	Water Clear	Yellow

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



LUCKY LIGHT

Absolute Maximum Ratings at Ta=25°C

Parameter	LL-583YC1F-006	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	20	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°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v		5000		mcd	$I_f=20\text{mA}$ Note 1
Viewing Angle	$2\theta_{1/2}$		15		Deg	Note 2
Peak Emission Wavelength	λ_p		592		nm	Measurement @Peak
Dominant Wavelength	λ_d		590		nm	Note 3
Spectral Line Half-Width	$\Delta\lambda$		18		nm	
Forward Voltage	V_F		2.0	2.6	V	$I_f=20\text{mA}$
Reverse Current	I_R			100	μA	$V_R=5\text{V}$

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.



LUCKY LIGHT

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

