

## Features

- High intensity
- Wide viewing angle
- General purpose leads
- Reliable and rugged

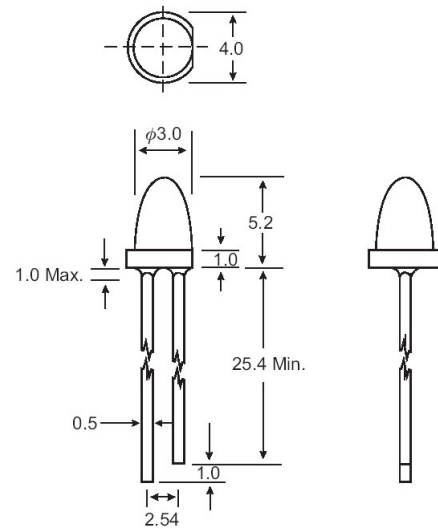
## Package Dimensions

### Absolute Maximum Ratings at Ta=25°C

Parameter	Max.	Unit
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°C	
Storage Temperature Range	-40°C to +80°C	
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Seconds	

#### Notes:

1. All dimensions are in millimeters (inches).
2. Protruded resin under flange is 1.0mm (.04") max.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.



Unit: mm (inches)

Tolerance: ±0.25mm (.010") max

(Ta=25°C)

Part No.	Emitting Color	Lens Color	Peak Wavelength $\lambda_p$ (nm)	Vf (V) I <sub>f</sub> = 20mA (Note E1)		Iv (mcd) (Note E2)		Viewing Angle 2 $\theta_{1/2}$ (Deg) (Note E3)
				Min	Typ	Min	Typ	
EL-3R241-B59	Red	Red Diffused	660	1.6	1.8	230	480	18
EL-3G241-B59	Green	Green Diffused	568	1.7	2.2	50	80	18
EL-3Y241-B59	Yellow	Yellow Diffused	588	1.7	2.0	160	430	18
EL-3O241-B59	Orange	Orange Diffused	610	1.7	2.1	200	500	18
EL-3R142-B59	Red	Water Clear	660	1.6	1.8	150	850	10
EL-3G142-B59	Green	Water Clear	568	1.7	2.2	140	400	10
EL-3Y142-B59	Yellow	Water Clear	588	1.7	2.0	250	800	10
EL-3O142-B59	Orange	Water Clear	610	1.7	2.1	450	800	10
EL-3R143-B59	Red	Red Transparent	660	1.6	1.8	150	850	10
EL-3G143-B59	Green	Green Transparent	568	1.7	2.2	140	400	10
EL-3Y143-B59	Yellow	Yellow Transparent	588	1.7	2.0	250	800	10

#### Parameter

Luminous Intensity

Viewing Angle

Peak Emission Wavelength

Dominant Wavelength

Spectral Line Half-Width

Forward Voltage

Reverse Current

#### Test Condition

I<sub>f</sub> = 20mA (Note E1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.)

(Note E2.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.)

I<sub>f</sub> = 20mA

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3mm Narrow Angle, Super-Bright Type