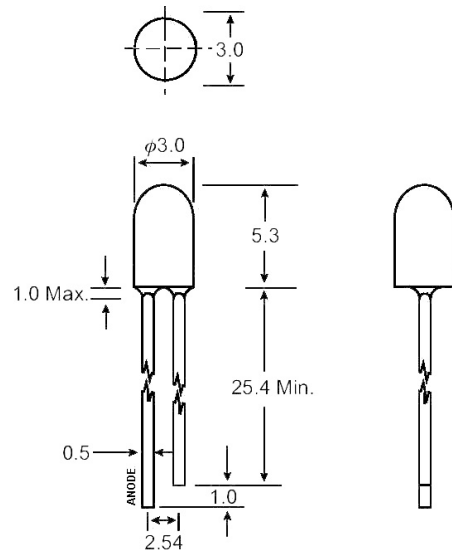


## Features

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

## Package Dimensions



Unit: mm (inches)

Tolerance:  $\pm 0.25\text{mm}$  (.010") max

## Absolute Maximum Ratings at Ta=25

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	0.4	mA /
Reverse Voltage	5	V
Operating Temperature Range	-40 to +80	
Storage Temperature Range	-40 to +80	
Lead Soldering Temperature [4mm(.157") From Body]	260 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.

Part No.	Emitted Color	Lens Color	Peak Wavelength $\lambda_p$ (nm)	Vf (V) $I_f = 20\text{mA}$ (Note E1)		Iv (mcd) (Note E2)		Viewing Angle $2\theta_{1/2}$ (Deg) (Note E3)
				Min	Typ	Min	Typ	
EL-3R631-BS	Red	Red Diffused	660	1.6	1.8	18	40	60
EL-3G631-BS	Green	Green Diffused	568	1.7	2.2	5.0	20	60
EL-3Y631-BS	Yellow	Yellow Diffused	590	1.7	2.6	10	18	60
EL-3O631-BS	Orange	Orange Diffused	610	1.6	1.8	25	60	60
EL-3R232-BS	Red	Water Clear	660	1.6	1.8	90	120	20
EL-3G232-BS	Green	Water Clear	568	1.7	2.2	15	55	20
EL-3Y232-BS	Yellow	Water Clear	590	2.0	2.4	40	70	20
EL-3R233-BS	Red	Red Transparent	660	1.6	1.8	90	120	20
EL-3G233-BS	Green	Green Transparent	568	1.7	2.2	15	55	20
EL-3Y233-BS	Yellow	Yellow Transparent	590	2.0	2.6	40	70	20

### Parameter

Luminous Intensity

Dominant Wavelength

Peak Emission Wavelength

Viewing Angle

Spectral Line Half-Width

Forward Voltage

Reverse Current

### Test Condition

$I_f = 20\text{mA}$  (Note E1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.)

$I_f = 20\text{mA}$  (Note E2: The dominant wavelength ( $\lambda_d$ ) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.)

$I_f = 20\text{mA}$

(Note E3.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.)

$I_f = 20\text{mA}$

$I_f = 20\text{mA}$

$I_f = 20\text{mA}$