

SUPER-BRIGHT TYPE LED

Features

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

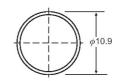
Absolute Maximum Ratings at Ta=25℃

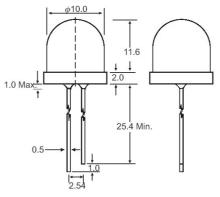
Parameter	Max.	Unit	
Power Dissipation	100	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA	
Continuous Forward Current	40	mA	
Derating Linear From 50°C	0.4	mA / °ℂ	
Reverse Voltage	5	٧	
Operating Temperature Range	-40°C to +80°C		
Storage Temperature Range	-40°C to +80°C		
Lead Soldering 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.

Package Dimensions





Unit: mm (inches)

Tolerance: ±0.25mm (.010") max

(Ta=25°C)

Part No.	Emitting Color	Lens Color	Peak Wavelength λp (nm)	Vf (V) I _f = 20mA (Note E1)	lv (mcd) (Note E2)	Viewing Angle 2θ _{1/2} (Deg) (Note E3)
				Min Typ	Min Typ	
EL-10R641	Red	Red Diffused	660	1.6 – 1.8	30 – 250	60
EL-10G641	Green	Green Diffused	568	1.7 – 2.2	25 – 100	60
EL-10Y641	Yellow	Yellow Diffused	590	1.7 – 2.0	100 – 400	60
EL-10R242	Red	Water Clear	660	1.6 – 1.8	100 – 450	20
EL-10G242	Green	Water Clear	568	1.7 – 2.2	120 – 400	20
EL-10Y242	Yellow	Water Clear	590	1.7 – 2.0	180 – 550	20
EL-10R243	Red	Red Transparent	660	1.6 – 1.8	100 – 450	20
EL-10G243	Green	Green Transparent	568	1.7 – 2.2	80 – 320	20
EL-10Y243	Yellow	Yellow Transparent	590	1.7 – 2.0	180 – 550	20

Parameter Test Condition

 $Luminous\ Intensity \\ I_f = 20mA\ (Note\ E1.\ Luminous\ intensity\ is\ measured\ with\ a\ light\ sensor\ and\ filter\ combination\ that\ approximates$

the CIE eye-response curve.)

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

Peak Emission Wavelength $I_f = 20 \text{mA}$

Dominant Wavelength $I_f = 20 \text{mA}$ (Note E3: The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents

the single wavelength which defines the color of the device.)

 $\label{eq:spectral Line Half-Width} \begin{array}{ll} Spectral Line Half-Width & I_f = 20 \text{mA} \\ Forward Voltage & I_f = 20 \text{mA} \\ Reverse Current & I_f = 20 \text{mA} \\ \end{array}$