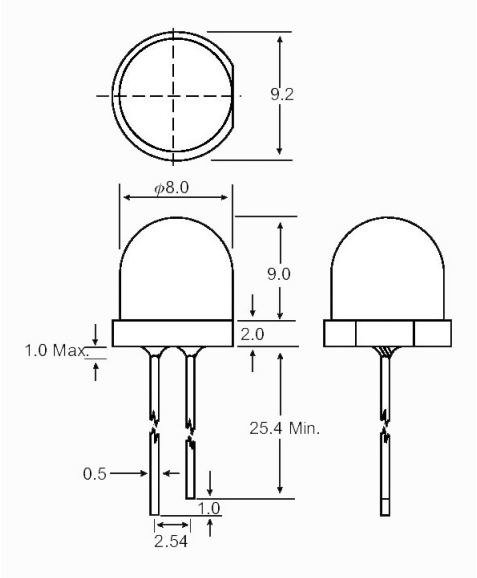
SUPER-BRIGHT TYPE LED

Features

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

Package Dimensions



Unit: mm (inches)

Tolerance: ±0.25mm (.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.

(Ta=25℃)

Part No.	Emitting Color	Lens Color	Peak Wavelength λp (nm)	Vf (V) I_f = 20mA (Note E1)		Iv (mcd) (Note E2)		Viewing Angle $2\theta_{1/2}$ (Deg) (Note E3)
				Min	Typ	Min	Typ	
EL-48R541-BS	Red	Red Diffused	660	1.6 – 1.8		230 – 550		45
EL-48G541-BS	Green	Green Diffused	568	1.7 – 2.2		45 – 130		45
EL-48Y541-BS	Yellow	Yellow Diffused	588	1.7 – 2.0		220 – 500		45
EL-48O541-BS	Orange	Orange Diffused	610	1.7 – 2.1		200 – 450		45
EL-48R342-BS	Red	Water Clear	660	1.6 – 1.8		180 – 850		30
EL-48G342-BS	Green	Water Clear	568	1.7 – 2.2		150 – 400		30
EL-48Y342-BS	Yellow	Water Clear	588	1.7 – 2.0		350 – 900		30
EL-48O342-BS	Orange	Water Clear	610	1.7 – 2.1		180 – 450		30
EL-48R343-BS	Red	Red Transparent	660	1.6 – 1.8		150 – 850		30
EL-48G343-BS	Green	Green Transparent	568	1.7 – 2.2		120 – 400		30
EL-48Y343-BS	Yellow	Yellow Transparent	588	1.7 – 2.0		300 – 900		30

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 = 20mA
Dominant Wavelength	I_f = 20mA (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.)
Spectral Line Half-Width	I_f = 20mA
Forward Voltage	I_f = 20mA
Reverse Current	I_f = 20mA

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