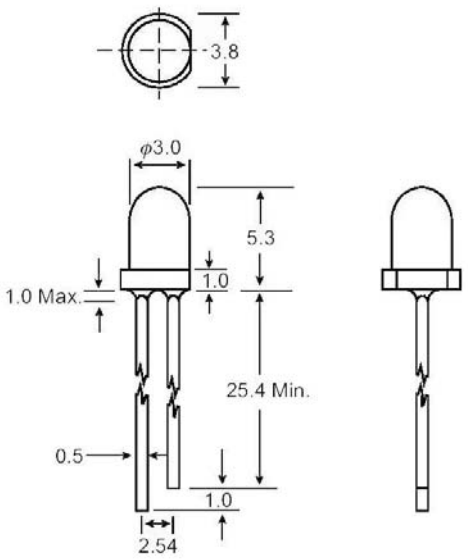
PHOTO TRANSISTOR TYPE LED

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	Symbol	Max.	Unit
Power Dissipation	$V_{BR(CEO)}$	100	mW
Collector-Emitter Voltage	$V_{BR(CEO)}$	30	V
Emitter- Collector Voltage	$V_{CE\ (SAT)}$	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. Tolerance is ±0.25mm (.010") 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.

Part No.	Lens Color	Peak Emission Wavelength λp (nm)	Rise Time (10% to 90%) T_R (μs)	Fall Time (90% to 10%) T_F (μs)	Collector-Emitter Saturation Voltage	Collector Dark Current I_D(nA)	On State Collector Current Ic(on)	Angular Response △$\theta_{1/2}$ (Deg)
					Max	Max	Typ	Typ
EL-3PTWC	Water Clear	940	15	15	0.4	100	5.0	14
EL-3PTBD	Black Diffused	850	15	15	0.4	100	5.0	16

Parameter	Test Condition
Collector-Emitter Breakdown Voltage	I_C = 100μA, I_B = 100μA
Emitter-Collector Breakdown Voltage	I_E = 100μA, I_B = 100μA
Collector-Emitter Saturation Voltage	I_C = 0.1mA, H = 2.5mW/cm^2
Collector Dark Current	V_{CE} = 10V, H = 0mW/cm^2
Rise Time & Fall Time	V_{CE} = 5V, I_C = 1Ma, R_L = 100Ω
On State Collector Current	V_{CE} = 5V, Ee = 1mW/cm^2, λ = 940nm

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