

Features

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

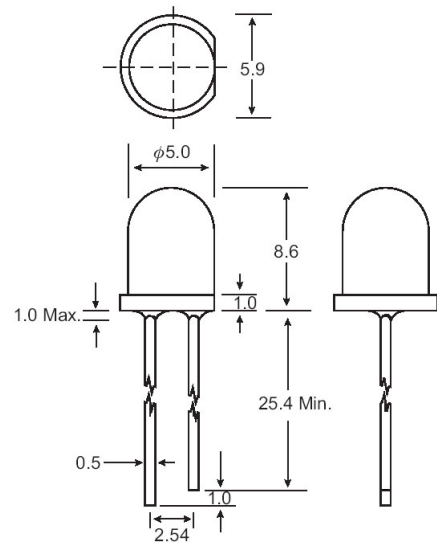
Absolute Maximum Ratings at Ta=25°C

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°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. Tolerance is $\pm 0.25\text{mm}$ (.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.

Package Dimensions



Unit: mm (inches)

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

Part No.	Lens Color	Peak Emission Wavelength λ_p (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 $I_C(\text{on})$	Angular Response $\Delta\theta_{1/2}$ (Deg)
					Max	Max	Typ	Typ
EL-5PTWC	Water Clear	940	15	15	0.4	100	5.0	14
EL-5PTBD	Black Diffused	850	15	15	0.4	100	5.0	16

Parameter

Collector-Emitter Breakdown Voltage
 Emitter-Collector Breakdown Voltage
 Collector-Emitter Saturation Voltage
 Collector Dark Current
 Rise Time & Fall Time
 On State Collector Current

Test Condition

$I_C = 100\mu\text{A}$, $I_B = 100\mu\text{A}$
 $I_E = 100\mu\text{A}$, $I_B = 100\mu\text{A}$
 $I_C = 0.1\text{mA}$, $H = 2.5\text{mW/cm}^2$
 $V_{CE} = 10\text{V}$, $H = 0\text{mW/cm}^2$
 $V_{CE} = 5\text{V}$, $I_C = 1\text{Ma}$, $R_L = 100\Omega$
 $V_{CE} = 5\text{V}$, $E_e = 1\text{mW/cm}^2$, $\lambda = 940\text{nm}$