

Hakai Labs CVD LED

The Hakai Labs / Danesi Designs CVD (Color Vision Deficiency) LED is a bi-polar Red/Green LED that was custom designed and manufactured for the inclusivity of color deficient individuals without any sacrifice to those without a color deficiency. A small color shift was made to the wavelength of the green side of the LED to push it closer to blue in the visible spectrum. This slight shift is enough to enable color vision deficient individuals to fully distinguish between the red and the custom green/teal colors emitted by this LED.

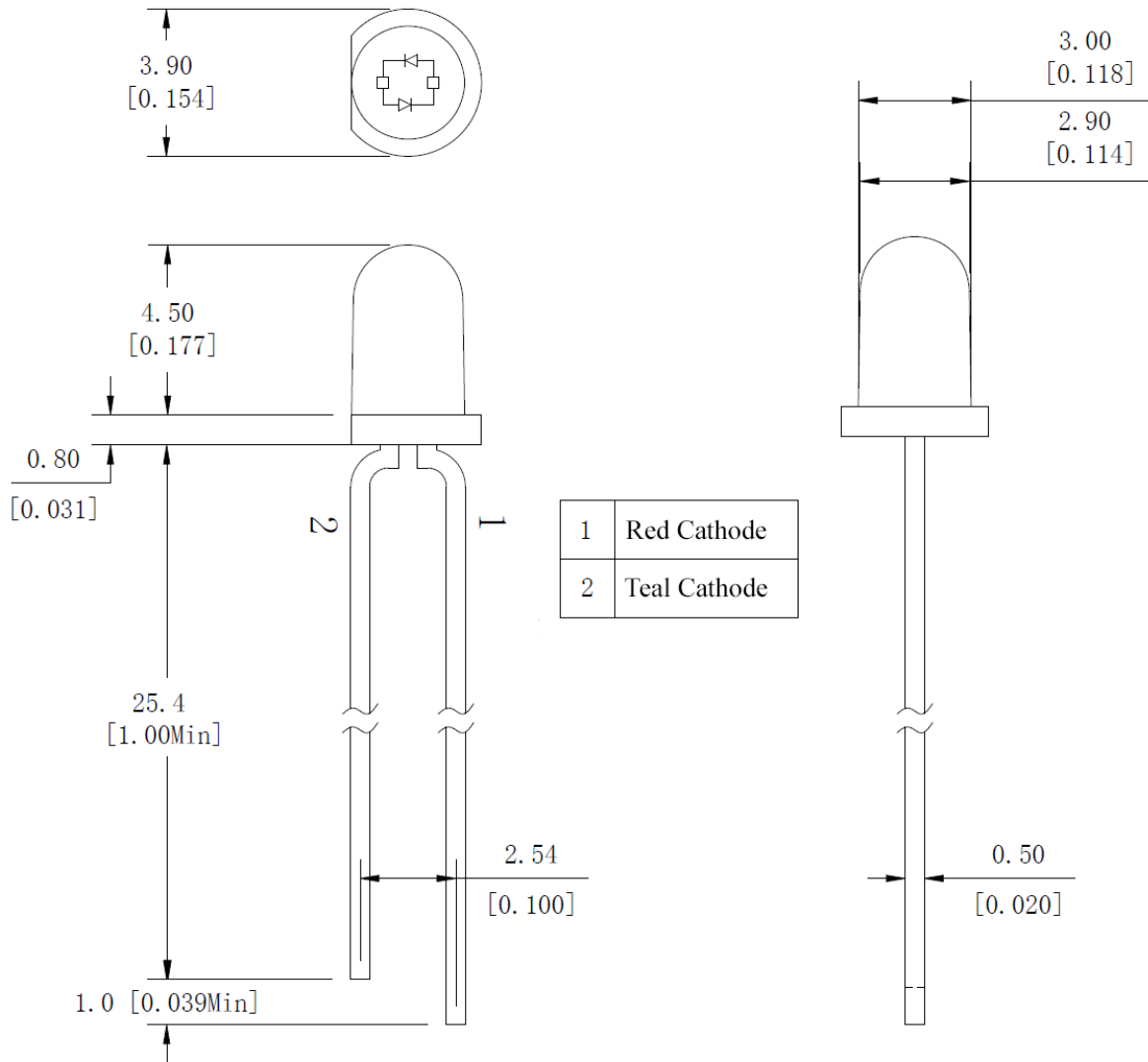
KiCAD symbols, footprints, and 3D files are all available on <https://www.danesidesigns.com>.

Thank you so much for your support in bringing this CVD LED to market in your modules/projects.

Technical Specifications

| | Red | Custom Teal |
|--|---|--------------------|
| Part Number | DDE-0016-00 | |
| Wavelength (nm) | 630 | 505 |
| Typical Forward Voltage (v) | 2.1 | 3.8 |
| Maximum Forward Voltage (v) | 2.5 | 4.5 |
| Minimum Luminous Intensity (mcd) | 900 | 900 |
| Typical Luminous Intensity (mcd) | 1800 | 2800 |
| Constant Forward Current (ma) | 30 (recommended 20) | |
| Peak Forward Current (ma) (Duty 1/10 @1KHZ) | 150 | 100 |
| Power Dissipation (mw) | 65 | 110 |
| Reverse Voltage (v) | 5 | |
| Operating Temperature (deg C) | -40 to +80 | |
| Storage Temperature (deg C) | -40 to +85 | |
| Lead Soldering Temperature (deg C) | Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb) | |

Package Configuration and Internal Schematics



Notes:

1. All dimensions are in millimeters (inches)
2. Tolerance is ± 0.25 (0.01") unless otherwise noted.