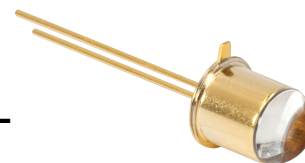


## LED with Ball Lens, 625 nm

LED625L



### Description

The LED625L is an AlGaInP LED mounted in a TO-18 package with a spherical glass lens. It is designed for a relatively narrow viewing angle.

### Specifications

| Absolute Max Ratings                |               |
|-------------------------------------|---------------|
| Specification                       | Max           |
| Reverse Voltage                     | 5 V           |
| DC Forward Current                  | 75 mA         |
| Pulsed Forward Current <sup>a</sup> | 100 mA        |
| Operating Case Temperature          | -35 to 85 °C  |
| Storage Temperature                 | -40 to 100 °C |

| Specifications <sup>b</sup>    |        |         |        |
|--------------------------------|--------|---------|--------|
|                                | Min    | Typical | Max    |
| Operating Current (Continuous) | -      | 50 mA   | 75 mA  |
| Forward Voltage at 50 mA       | -      | 2.1 V   | 2.5 V  |
| Optical Output Power at 50 mA  | -      | 12 mW   | -      |
| Viewing Half Angle             | -      | 24°     | -      |
| Peak Wavelength                | 615 nm | 625 nm  | 635 nm |
| Bandwidth (FWHM)               | -      | 14 nm   | -      |

a. Pulsed Forward Current Condition: Duty Cycle = 1% and Pulse Width = 10  $\mu$ s.

b. Unless otherwise specified, all specifications are for operation at 25 °C.



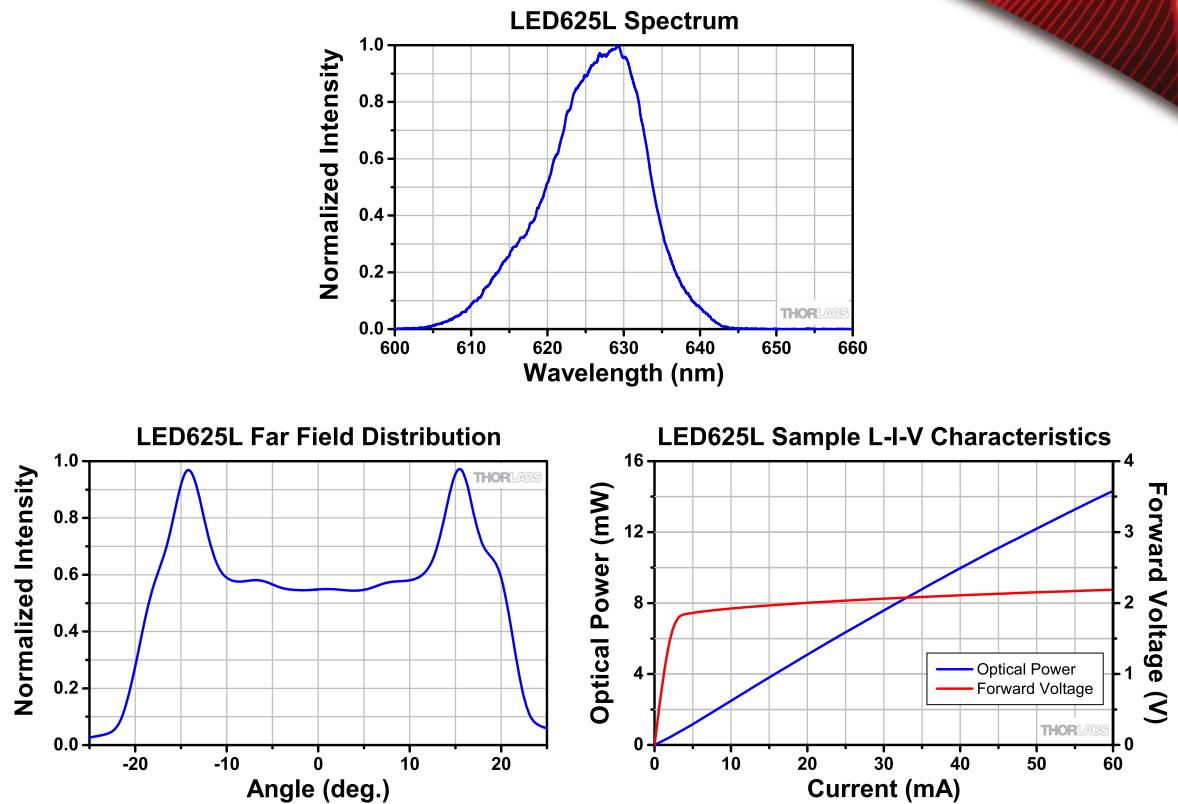
| Soldering Specifications |                                                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------|
|                          | Conditions                                                                                                               |
| Dip Soldering            | Pre-Heat Backside of PCB at 90 °C Maximum for 60 Seconds or Less;<br>Solder Bath at 250 °C Maximum for 5 Seconds or Less |
| Hand Soldering           | Soldering Iron Tip at 250 °C Maximum for 3 Seconds or Less                                                               |

| Cleaning Solvents |               |                   |          |         |                   |     |
|-------------------|---------------|-------------------|----------|---------|-------------------|-----|
| Solvent           | Ethyl Alcohol | Isopropyl Alcohol | Propanol | Acetone | Trichloroethylene | MKS |
| Approved          | Yes           | Yes               | Yes      | Yes     | No                | No  |

March 13, 2024

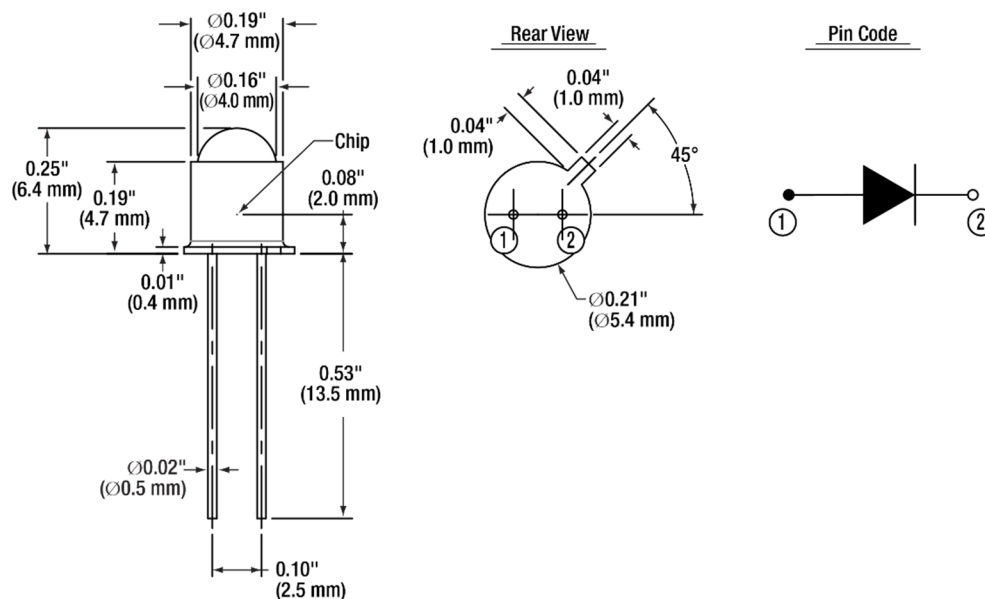
MTN013580-S01, Rev C

## Typical Performance Plots



These measurements were taken at a case temperature of 25 °C. The output spectrum and radiation distribution were measured with an operating current of 50 mA.

## Drawing



## ***Precautions and Warranty Information***

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These products are sensitive to electrostatic discharge (ESD) and as a result are not covered under warranty once opened. In order to ensure the proper functioning of an LED care must be given to maintain the highest standards of compliance to the maximum electrical specifications when handling such devices. The LEDs are particularly sensitive to any voltage that exceeds the absolute maximum ratings of the product. Any applied voltage in excess of the maximum specification will cause damage and possible complete failure to the product. The user must use handling procedures that prevent any electrostatic discharges or other voltage surges when handling or using these devices.

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- 1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user.*
- 2. A critical component is any component in a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system or to affect its safety or effectiveness.*
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