

LED325W2



Description

The LED325W2 emits light with a spectral output centered at 325 nm. This LED is encased in a TO-39 package with a UV glass window.

Specifications

Specification	Value
Color	Deep UV
Nominal Wavelength	325 nm
LED Type	TO-39 Flat Window
Maximum Forward Current ^a	40 mA
Test Forward Current	20 mA
Full Viewing Angle	114°
Typical Bandwidth (FWHM)	11 nm
Operating Temperature (Non-Condensing)	-30 to 80 °C
Storage Temperature	-40 to 100 °C
Typical Lifetime	>5000 h

a. Measured at 25 °C

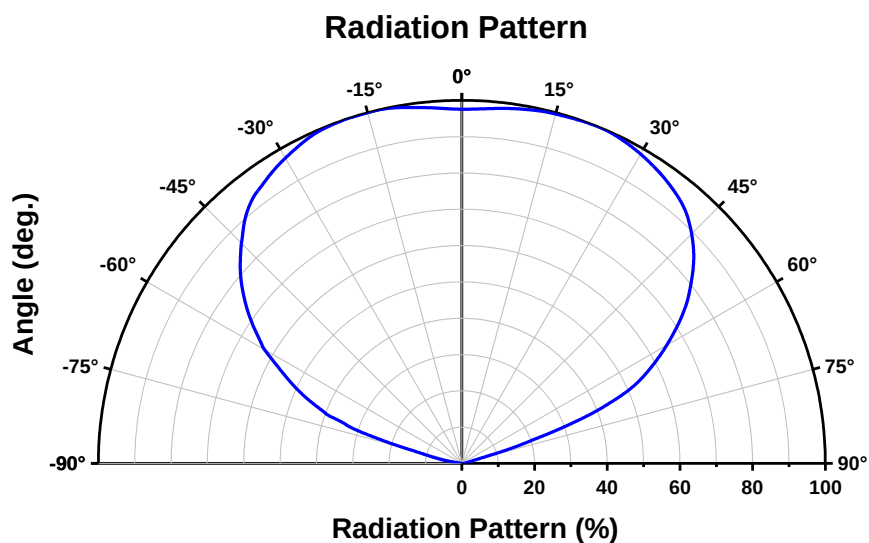
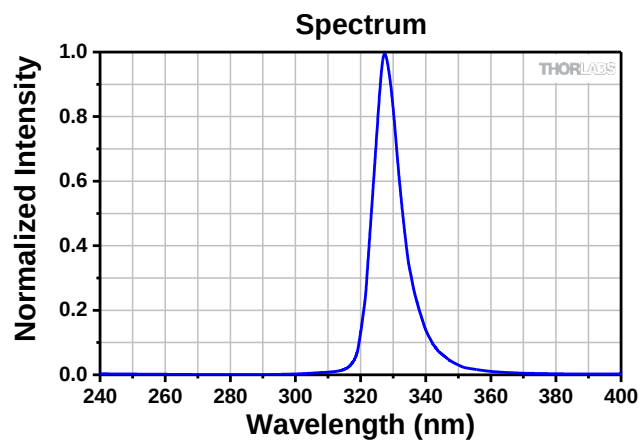
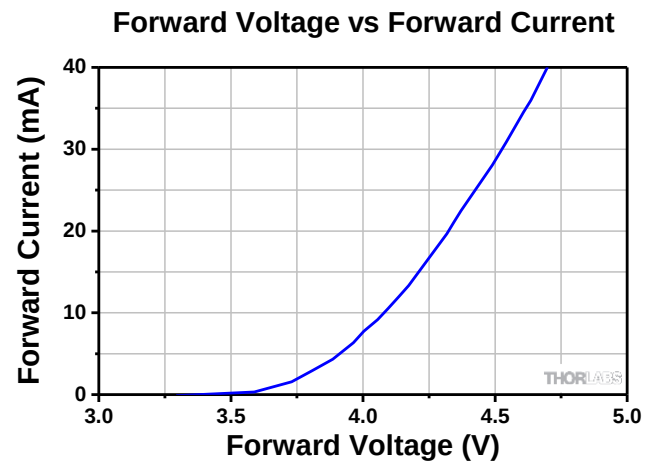
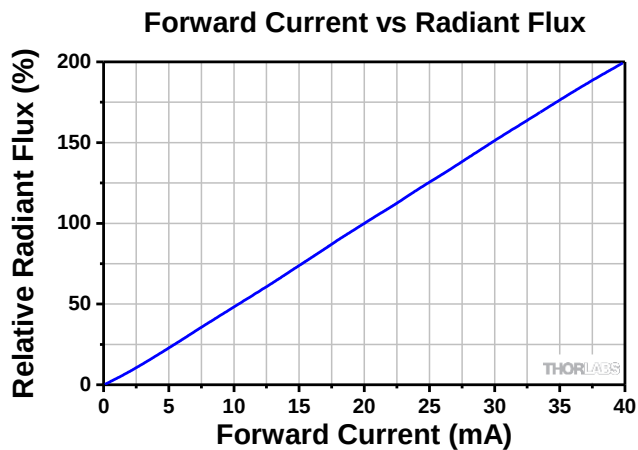
LED325W2				
	Symbol	Min	Typical	Max
Peak Wavelength	λ_p	320 nm	325 nm	330 nm
LED Power Output ^a	P_{out}	-	1.7 mW	-
Forward Voltage	V_F	-	4.5 V	-

a. Measured at the Test Forward Current

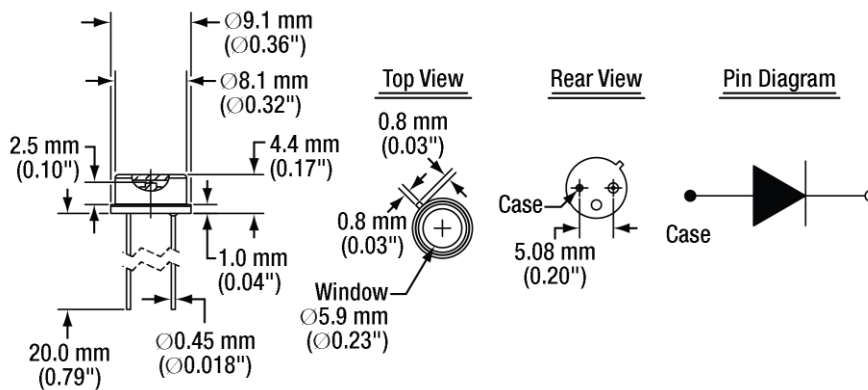
Soldering Specifications		
	Symbol	Value
Manual Soldering Temperature	T_{SOL}	350 °C (within 3 sec)
Flow Soldering Temperature	T_{SOL}	250 °C (within 5 sec)

Performance Plots

These measurements were taken at an ambient temperature of 25 °C. The output spectrum and radiation distribution were measured with an operating current of 20 mA.



Drawings



Precautions and Warranty Information

Thorlabs warrants this LED in the unopened, original packaging for a period of 1 year as set forth in Thorlabs' General Terms and Conditions of Sale which can be found at https://www.thorlabs.com/Images/PDF/LG-PO-001_Thorlabs_terms_and_%20agreements.pdf. Opening the package will void the warranty.

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 possibly 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.

During operation, the LED emits high intensity ultraviolet (UV) light, which is harmful to skin and eyes. UV light is hazardous to skin and may cause cancer. Avoid exposure to UV light when LED is operational. Precautions must be taken to avoid looking directly at the UV light without the use of UV light protective glasses. Do not look directly at the front of the LED or at the LED's lens when LED is operational. Safety of the assembled end product is the sole responsibility of the assembler of the system. Keep out of reach of children.

Thorlabs, Inc. Life Support and Military Use Application Policy is stated below:

THORLABS' PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS OR IN ANY MILITARY APPLICATION WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE PRESIDENT OF THORLABS, INC. As used herein:

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.
3. The Thorlabs products described in this document are not intended nor warranted for usage in Military Applications.

