

## Unmounted Single-Color LED, 290 nm



LED290W

### Description

The LED290W emits light with a spectral output centered at 290 nm. This LED is encased in a Ø9 mm package with a UV glass window.

### Specifications

Specification	Value
Color	UV
Nominal Wavelength	290 nm
LED Type	Ø9 mm with Flat Window
Maximum Current <sup>a</sup>	30 mA
Test Forward Current	20 mA
Full Viewing Angle	120°
Operating Temperature (Non-Condensing)	-30 to 55 °C
Storage Temperature	-30 to 100 °C

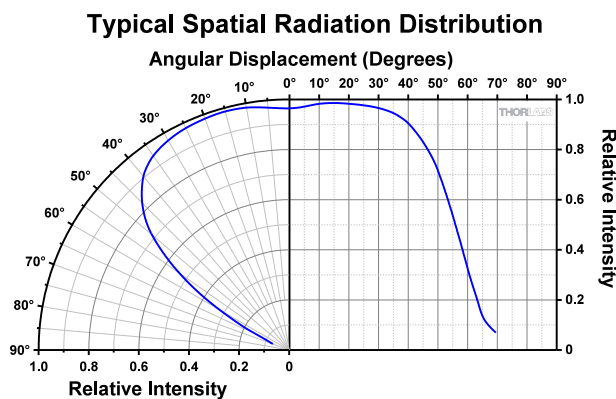
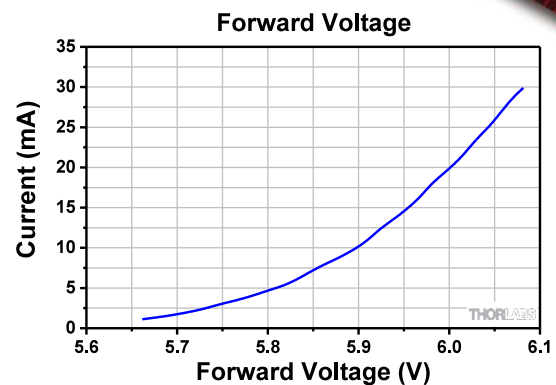
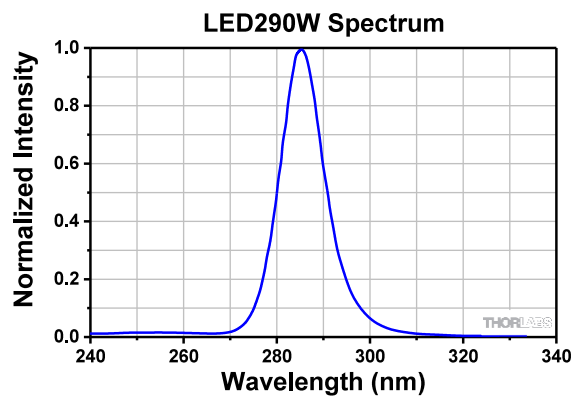
a. Measured at 25 °C

	Symbol	Min	Typical	Max
Peak Wavelength	$\lambda_p$	285 nm	-	295 nm
LED Power Output <sup>a</sup>	$P_{out}$	0.5 mW	1.6 mW	-
Forward Voltage	$V_F$	-	6.0 V	7.5 V
Bandwidth (FWHM)	$\Delta\lambda$	-	11 nm	15 nm

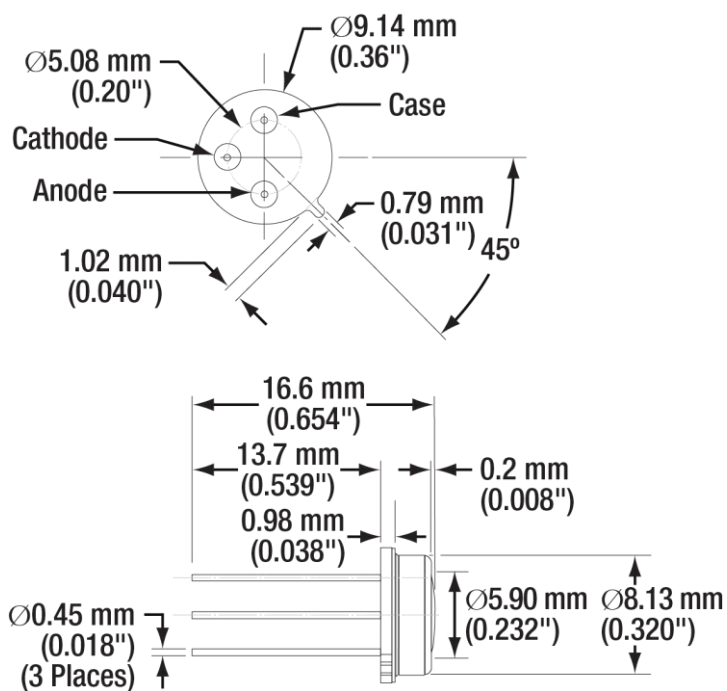
a. When Driven with the Test Forward Current

Soldering Specifications		
Manual Soldering Temperature	$T_{SOL}$	190 °C (within 5 sec)
Dip Soldering Temperature	$T_{SOL}$	190 °C (within 5 sec)

## Typical Performance Plots



## Drawings



## Precautions and Warranty Information

These products are ESD (electro static discharge) sensitive and as a result are not covered under 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 possible complete failure to the product. The user must use handling procedures that prevent any electro static 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.

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