



EP590S10

Description

Thorlabs' EP590S10 Pigtailed LED couples visible light emitting from a Ø9 mm TO-can LED into a 1 m long multimode optical fiber with Ø1000 µm core. The end of the fiber is terminated with an SMA connector. Each unit is tested before shipment and includes a product-specific datasheet, which specifies optimal operating parameters. This pigtailed LED has the same footprint as our pigtailed laser diode product family.

Specifications

Absolute Maximum Ratings ^a	
DC Forward Current	600 mA
Reverse Voltage	5 V
Junction Temperature	120 °C
Soldering Temperature ^b	250 °C
Operating Temperature	0 to 50 °C
Storage Temperature	-10 to 65 °C

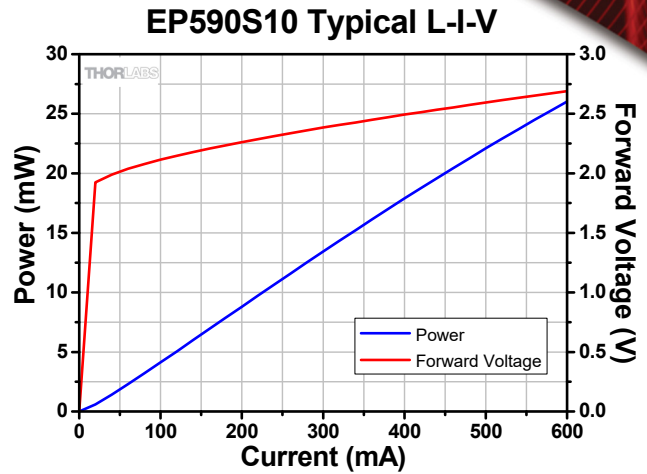
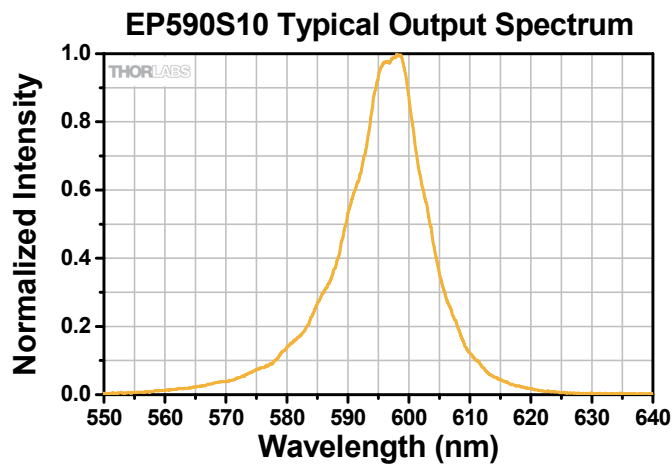
- Absolute Maximum Rating specifications should never be exceeded. Operating at or beyond these conditions can permanently damage the laser.
- Hand soldering must be completed in 5 seconds at 250 °C.



EP590S10 Specifications (Case Temperature = 25 °C)			
	Min	Typ.	Max
Center Wavelength	580 nm	590 nm	600 nm
Fiber Output Power @ I _{op} = 500 mA ^a	18 mW	-	-
Forward Voltage @ I _{op} = 500 mA	-	2.6 V	3.0 V
Bandwidth (FWHM)	-	14 nm	-
Fiber Specifications			
Fiber	FP1000ERT, 0.5 NA, Ø1000 µm Core		
Connector	SMA905		

- Specified after the fiber tip.

Typical Performance Plots



Drawing

