Pigtailed LED, 470 nm, 18 mW (Min), MM Fiber

EP470S04

Description

Thorlabs' EP470S04 Pigtailed LED couples ultraviolet light emitting from a Ø9 mm TO-can LED into a 1 m long multimode optical fiber with a Ø400 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

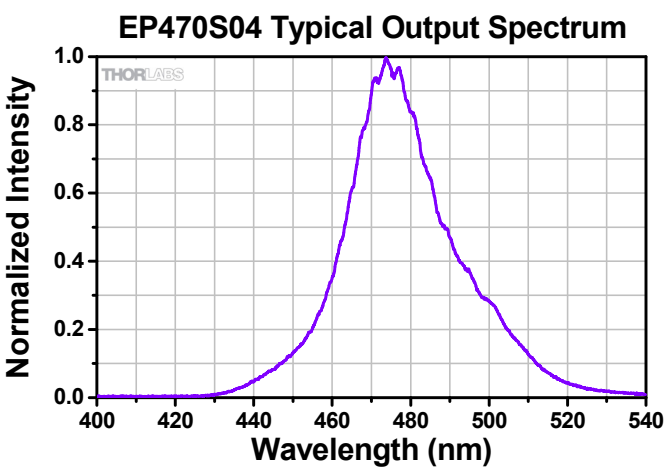
Absolute Maximum Ratings[a]	
DC Forward Current	1000 mA
Reverse Voltage	5 V
Junction Temperature	120 °C
Soldering Temperature[b]	250 °C
Operating Temperature	0 to 50 °C
Storage Temperature	-10 to 65 °C

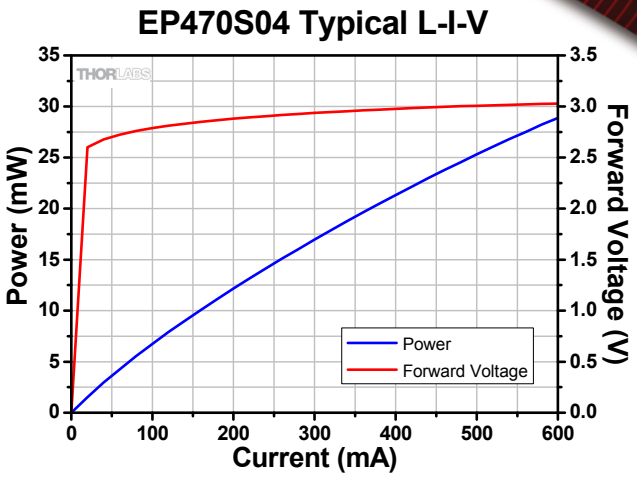
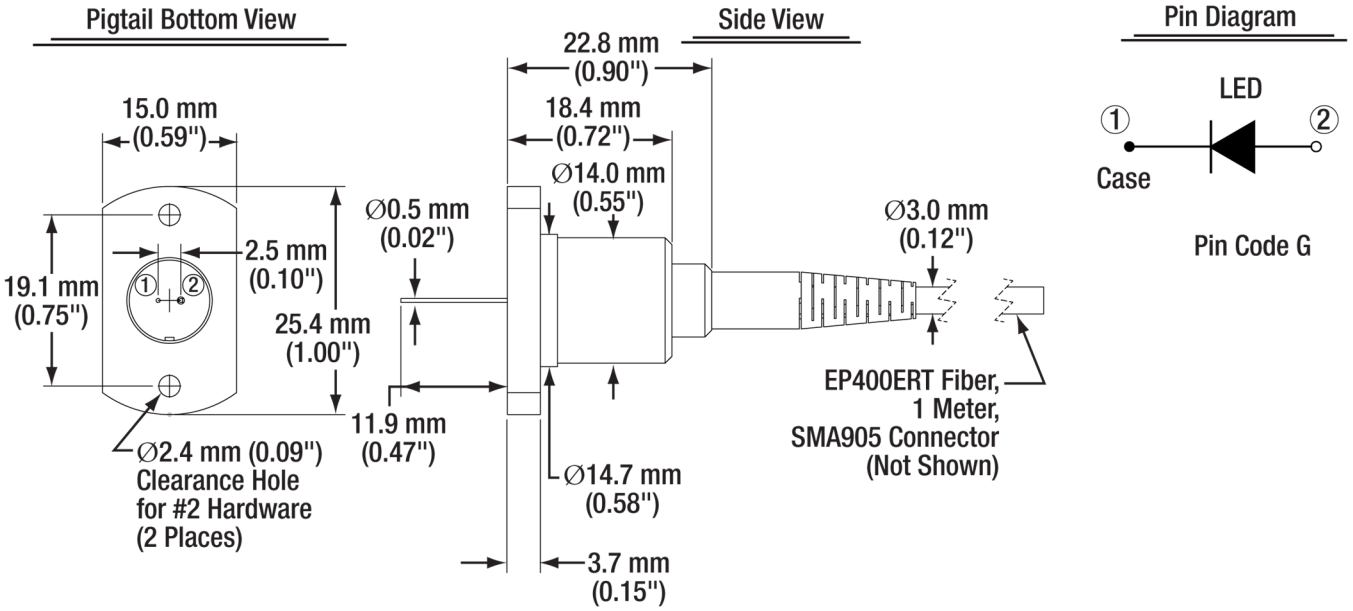
a. Absolute Maximum Rating specifications should never be exceeded. Operating at or beyond these conditions can permanently damage the laser.
b. Hand soldering must be completed in 5 seconds at 250 °C.

EP470S04 Specifications (Case Temperature = 25 °C)			
	Min	**Typ.**	**Max**
Center Wavelength	460 nm	470 nm	480 nm
Fiber Output Power @ I_{op} = 500 mA[a]	18 mW	-	-
Forward Voltage @ I_{op} = 500 mA	-	3.0 V	3.4 V
Bandwidth (FWHM)	-	25 nm	-
Fiber Specifications			
Fiber	FP400ERT, 0.5 NA, Ø400 µm Core		
Connector	SMA905		

a. Specified after the fiber tip.

Typical Performance Plots

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