

Pigtailed LED, 810 nm, 16 mW (Min), MM Fiber



Description

EP810S04

Thorlabs' EP810S04 Pigtailed LED couples near-infrared light emitting from a \emptyset 9 mm TO-can LED into a 1 m long multimode optical fiber with \emptyset 400 μ m 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		





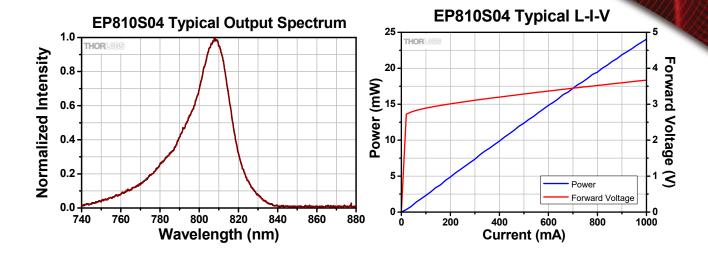
- a. Absolute Maximum Rating specifications should never be exceeded. Operating at or beyond these conditions can permanently damage the laser.
- b. Hand soldering must be completed in 5 seconds at 250 $^{\circ}$ C.

EP810S04 Specifications (Case Temperature = 25 °C)			
	Min	Тур.	Max
Center Wavelength	800 nm	810 nm	820 nm
Fiber Output Power @ I _{op} = 700 mA ^a	16 mW	-	-
Forward Voltage @ Iop = 700 mA	-	3.4 V	4.0 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



Drawing

