

Single Mode Fiber-Pigttailed Laser

LPS-635-FC



S/N: 190201-44

Center Wavelength: 636.2 nm
Fiber Type: SM600
Test Date: 2/4/2019



Diode Package: TO 9 mm
Connector: FC/PC
Tested By: Leila

QA: Pass

Summary of Test Data (CW, T_{case}=25°C)

Parameter	Symbol	Value	Unit
Fiber Output Power	P _{op}	2.5	mW
Operating Current@P _{op}	I _{op}	53.6	mA
Operating Voltage@P _{op}	V _{op}	2.22	V
Monitor Current @P _{op}	I _{mon}	0.106	mA
Threshold Current	I _{th}	41.2	mA
Slope Efficiency	ΔP/ΔI	0.21	W/A

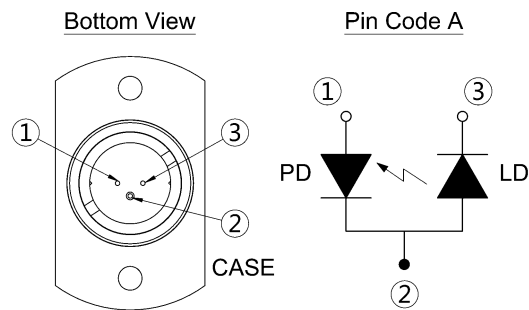
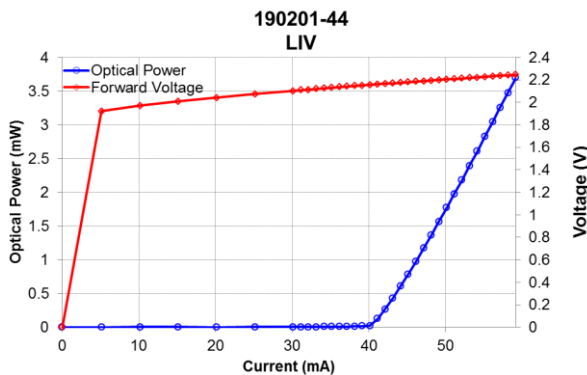
Absolute Maximum Ratings

Parameter	Ratings	Unit
Laser Diode Current*	59	mA
Optical Output Power*	3.5	mW
LD Reverse Voltage*	2	V
Storage Temperature	-10~+65	°C
Case Temperature	0~+50	°C

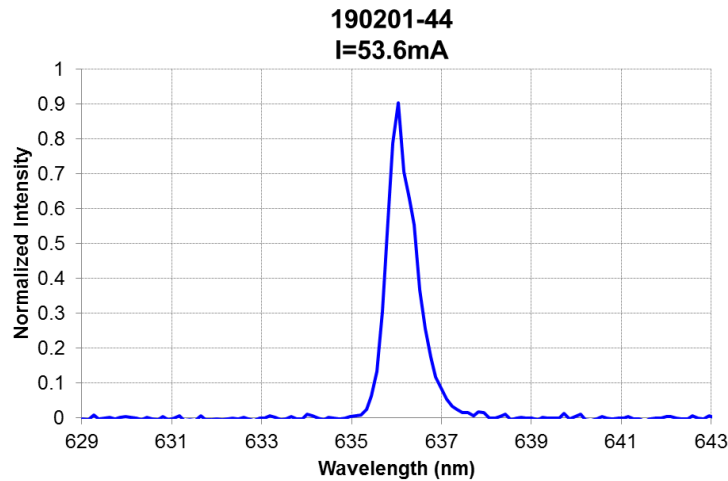
* CW, T_{case}=25°C

LASER RADIATION
AVOID DIRECT EYE EXPOSURE
CLASS 3R LASER PRODUCT

CAUTION- use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. There are no user serviceable parts in this product. When proper power is applied to this product, Laser radiation will be emitted from the optical fiber.



Thorlabs Inc 56 Sparta Avenue Newton, New Jersey 07860 USA	US, Canada & South America 1-973-300-3000 Brazil +55-16-3413 7062	France +33 (0)970 440 844 Scandinavia +46-31-733-30-00	Europe +49 (0) 8131-5956-0 Japan & Asia +81-3-6915-7701	UK & Ireland +44 (0)1353-654440 China +86 (0)21-60561122
---	--	---	--	---



$T_{\text{case}}=25^{\circ}\text{C}$, $I_{\text{op}}=53.6\text{mA}$
Spectrum measured by CCS100.

Important Notes:

1. The maximum ratings mean the limitation over which the laser should not be operated even instant time.
2. Do not clean the fiber connector when the diode is in operation. The laser should be off when plugging or un-plugging the connector.
3. To protect the laser diode from damage due to static electricity (ESD), please follow proper ESD handling precautions.
4. Do not pull or fold the fiber. The fiber is very fragile and easily broken. Avoid handling the fiber by the rubber “boots” of the black housing and connector ends of the pigtail.
5. To ensure safe operation use only with a suitable power source that complies with the pertinent requirements for laser systems as specified in IEC-60825-1 “Safety of Laser Products.”
6. Due to the nature of Fabry-Perot laser diodes, the spectrum output will be affected by several factors such as current, temperature, and feedback to the laser. Thus, although the center wavelength will be within the specified tolerance, please note that the peak will vary.