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Coupling Light to Your Success

LDI-633-FP-50

633 nm, FP, 50 mW CW

DESCRIPTION

The module is equipped with an SM fiber. It operates in the CW mode giving optical power up to 50 mW. Small size and weight allow for installing it on a PCB without additional mounting.

The module provides a Gaussian beam with the mode diameter 4.2 μm (fiber type SM04) or 4.5 μm (SMP04). It is suitable for biomedical systems.

ABSOLUTE MAXIMUM RATINGS

Parameter	Value	Unit
LD forward current, I_{fl}	230	mA
LD reverse voltage, V_{rl}	2	V
Operating temperature, T_c	-30 ÷ +50	°C
Storage temperature, T_{stg}	-40 ÷ +80	°C

ELECTRICAL-OPTICAL CHARACTERISTICS (SINGLE MODE, T = 25 °C)

Parameter		Min	Typ	Max	Unit	Test conditions
Wavelength	λ	630	633	636	nm	CW, P = 50 mW
Threshold current	I_{th}		60	100	mA	CW
Operating current	I_{op}		95	150	mA	CW, P = 20 mW
			180	200		CW, P = 50 mW
Spectral width	Δλ		0.5	1	nm	CW, P = 50 mW, FWHM
Operating voltage	V_{op}		2.5	3.0	V	CW, P = 50 mW
Slope efficiency	S_e		0.38		mW/mA	CW, P = 50 mW

ORDERING INFORMATION

LDI-633-FP-50 -X-31-X -X-X

Package
BR – flange BR
F – thermal stabilization, radiator

Fiber type
SM04 – 630-HP (bend radius 6 mm*)
SMP04 – SM63-PS-U25A (PANDA)
Typical fiber length = 100 cm

Certification
CW – CW

Connector type
FU – FC/UPC

*Attenuation 0.1 dB/loop at 650 nm

Our products are certified by Belarusian Chamber of Commerce. All the components used in production are ISO 9001:2008 certified and comply with RoHS directive. Characteristics, data, materials and structures specified in this datasheet are subject to change without notice.

This document was updated on 31.08.2017

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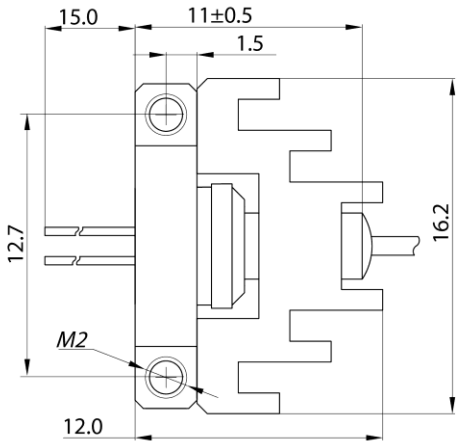
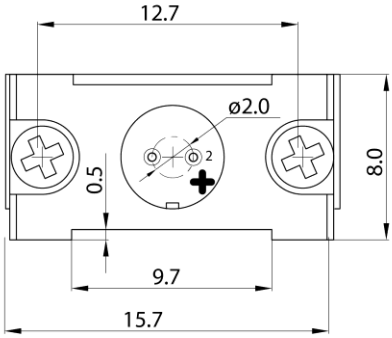
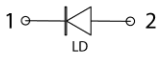
BR



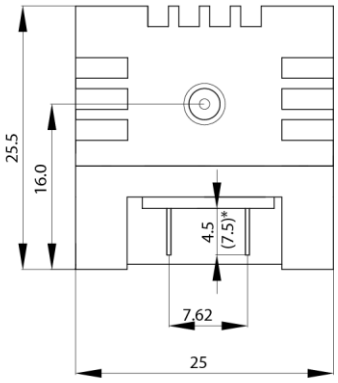




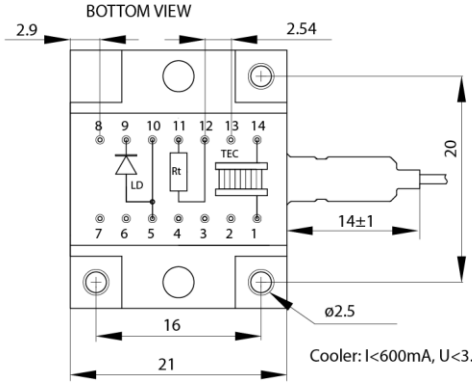
1.LD Cathode
2.LD Anode

F

FRONT VIEW



BOTTOM VIEW



PIN CONNECTION

1.Cooler Anode
2.-
3.-
4.-
5.LD Anode
6.-
7.-
8.-
9.LD Cathode
10.LD Anode
11.Thermistor
12.Thermistor
13.-
14.Cooler Cathode

Cooler: I<600mA, U<3.6V, Q<1.1W

Rt=10000*EXP(3450*(1/T(K)-1/298))

*Possible pins length 4.5 mm or 7.5 mm.

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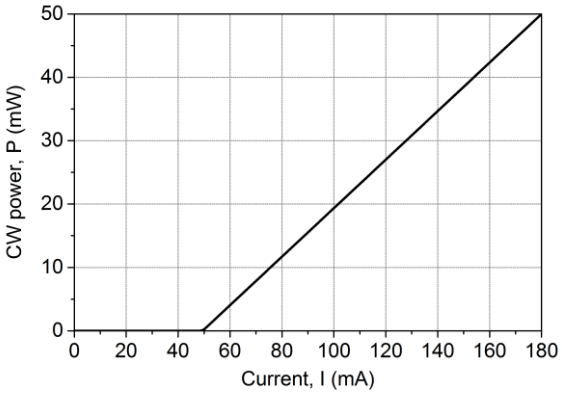

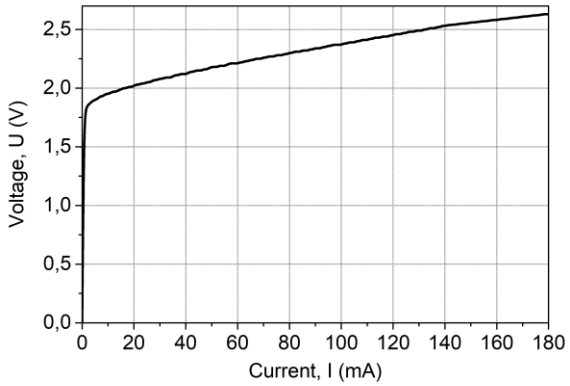

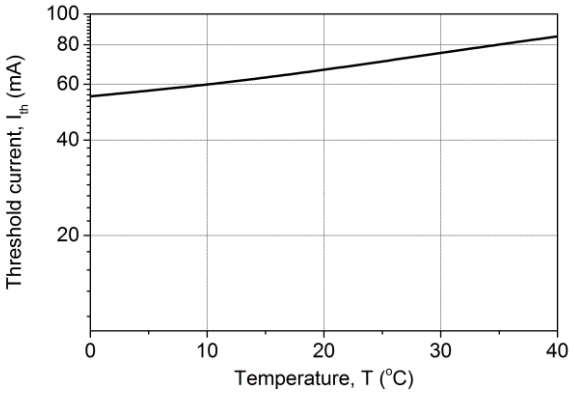

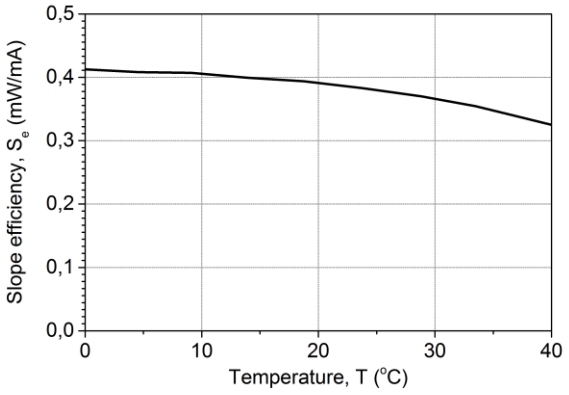

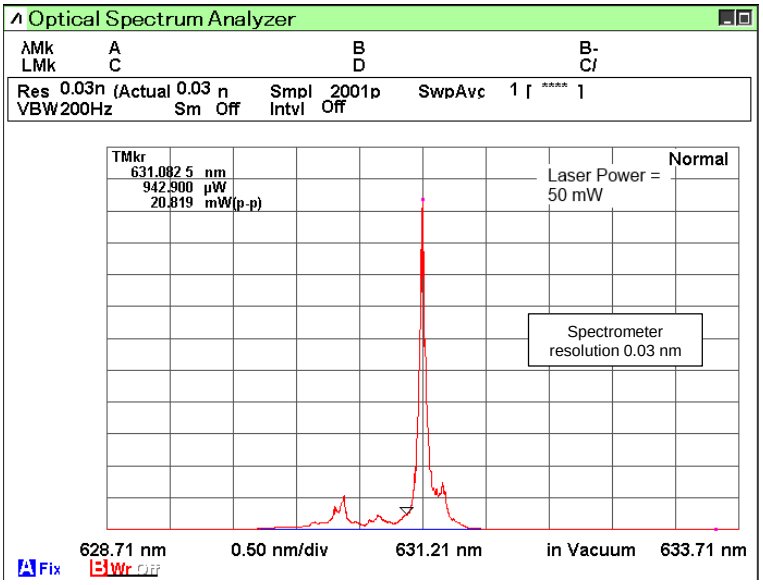

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