

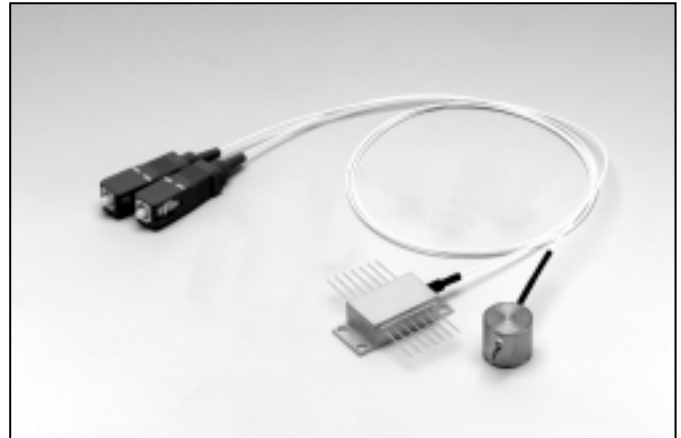
Fiber-output Laser Diode, Easy Handling, And Various Applications

■ FEATURES

- High radiant optical power
Fiber out : 600 mW
- High stability
- Long life
- High cost performance

■ APPLICATIONS

- Printing
- Material Processing
- Medical instrument



■ OUTLINE

Fiber-output CW Laser Diode L9399 series consists of a multimode CW laser diode, a multimode optical fiber and an output connector. This makes it easier to bring the laser beam to the place of object without any optics. As the package of L9299-02 is a Butterfly type, peltier element can be built-in for stable operation of the LD. Other types of package, fiber and/or output connector are available. And other peak emission wavelengths (808nm, 940nm, 980nm) are also available.

■ ABSOLUTE MAXIMUM RATINGS (Top(c) = 25 °C)

Parameter	Symbol	Value	Unit
Radiant Output Power	Φ_e	650	W
Forward Current	I_f	1.35	A
Reverse Voltage	V_r	2	V
Operating Temperature	Top(c)	+5~+35	°C
Storage Temperature	Tstg	-20~+40	°C

■ CHARACTERISTICS (Top(c) = 25 °C)

• Laser Diode

Parameter	Symbol	Conditions	Value	Unit
Radiant Output Power (Fiber out)	Φ_e	$I_f = 1.25 \text{ A}$	600 (Typ.)	mW
Peak Emission Wavelength	λ_p	$\Phi_e = 600 \text{ mW}$	830 ± 15	nm
Lasing Threshold Current	I_{th}	—	0.35 (Typ.)	A

• Fiber

Parameter	Symbol	Conditions	Value	Unit
Mode	—	—	Multi mode	—
Core Diameter	—	—	60	μm
Clad Diameter	—	—	125	μm
Jaket Diameter	—	—	0.9	mm
N . A	—	—	0.22	—
Fiber Termination	—	—	SC connector	—

FIBER-OUTPUT CW LASER DIODES L9399

Figure 1: Radiant Output Power vs. Forward Current (Typ.)

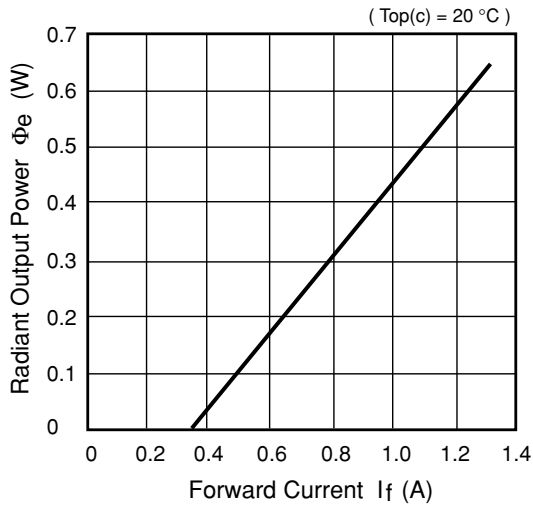


Figure 2: Emission Spectrum (Typ.)

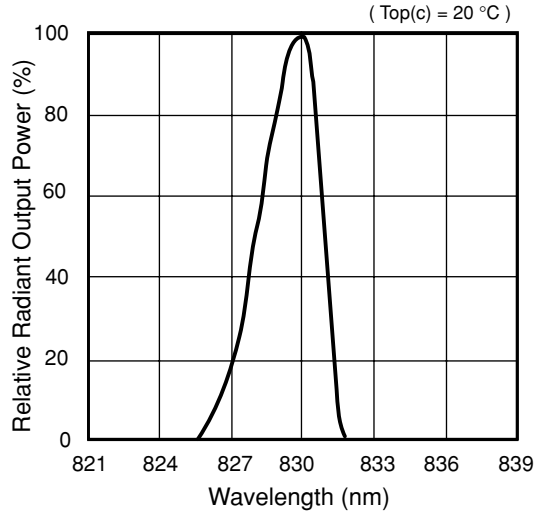
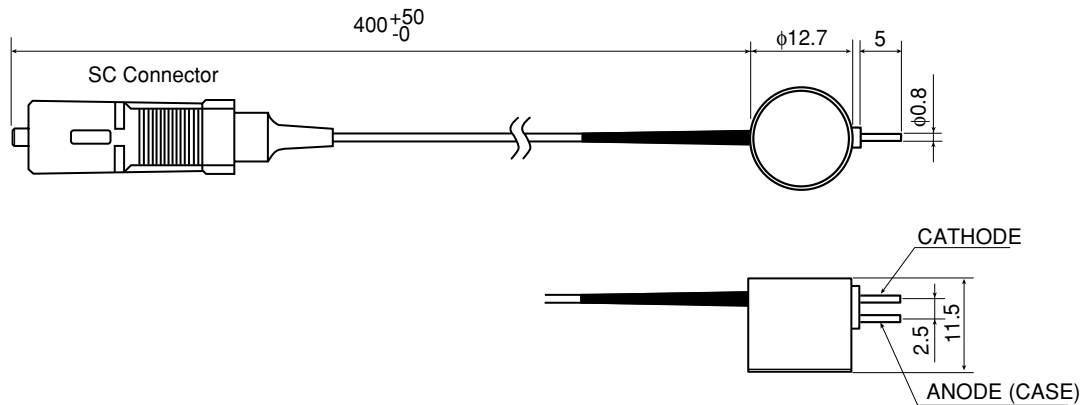
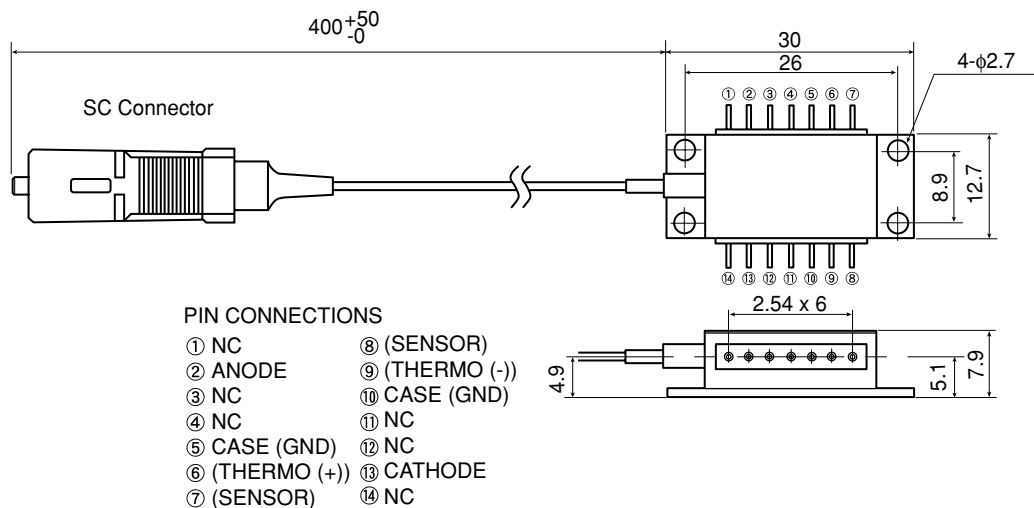


Figure 3: Dimensional Outline (Unit : mm)

1) Column Package



2) Butterfly Package



HAMAMATSU

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HAMAMATSU PHOTONICS K.K., Laser Group, Sales Dept.

5000, Hirakuchi, Hamakita City, Shizuoka, 434-8601, Japan, Telephone: (81)53-584-0227, Fax: (81)53-584-0228, E-mail: laser-g@lshr.hpk.co.jp

U.S.A.: Hamamatsu Corporation: 360 Foothill Road, P.O. BOX 6910, Bridgewater, N.J. 08807-0910, U.S.A. Telephone: (1)908-231-0960, Fax: (1)908-231-1218 E-mail: usa@hamamatsu.com

Germany: Hamamatsu Photonics Deutschland GmbH: Arzbergerstr. 10, D-82211 Herrsching am Ammersee, Germany, Telephone: (49)8152-375-0, Fax: (49)8152-2658, E-mail: info@hamamatsu.de

France: Hamamatsu Photonics France S.A.R.L.: 8, Rue du Saule Trapu, Parc du Moulin de Massy, 91882 Massy Cedex, France, Telephone: 33(1) 69 53 71 00, Fax: 33(1) 69 53 71 10, E-mail: infos@hamamatsu.fr

United Kingdom: Hamamatsu Photonics UK Limited: 2 Howard Court, 10 Tewin Road, Welwyn Garden City, Hertfordshire AL7 1BW, United Kingdom, Telephone: (44)1707-294888, Fax: (44)1707-325777, E-mail: info@hamamatsu.co.uk

North Europe: Hamamatsu Photonics Norden AB: Smidesv gen 12, SE-171-41 Solna, Sweden, Telephone: (46)8-509-031-00, Fax: (46)8-509-031-01, E-mail: info@hamamatsu.se

Italy: Hamamatsu Photonics Italia S.R.L.: Strada della Moia, 1/E, 20020 Arese, (Milano), Italy, Telephone: (39)02-935 81 733, Fax: (39)02-935 81 741, E-mail: info@hamamatsu.it

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