

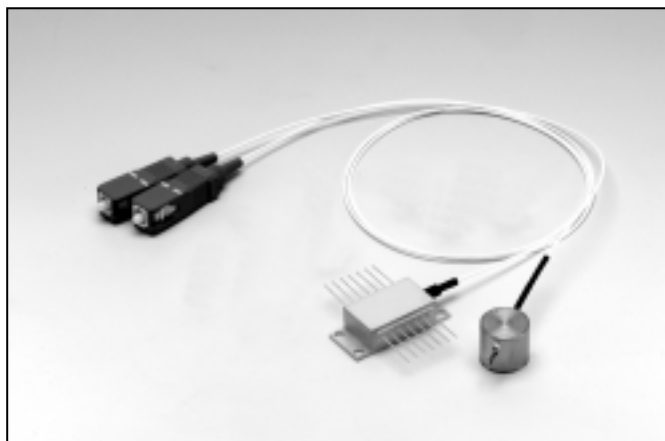
Fiber-output Laser Diode, Easy Handling, And Various Applications

■ 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.)

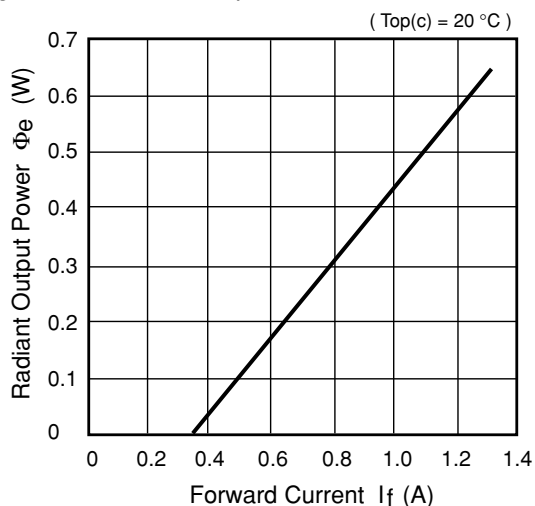


Figure 2: Emission Spectrum (Typ.)

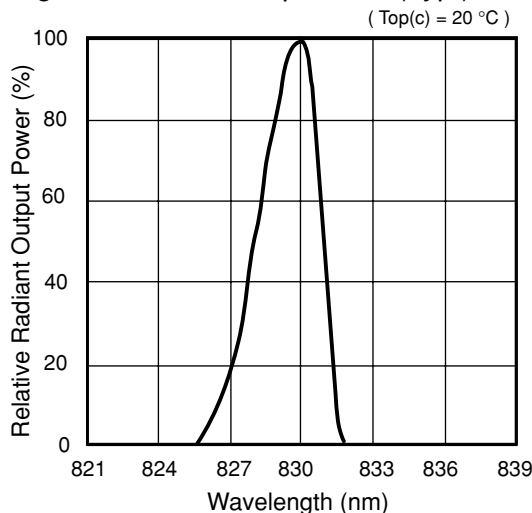
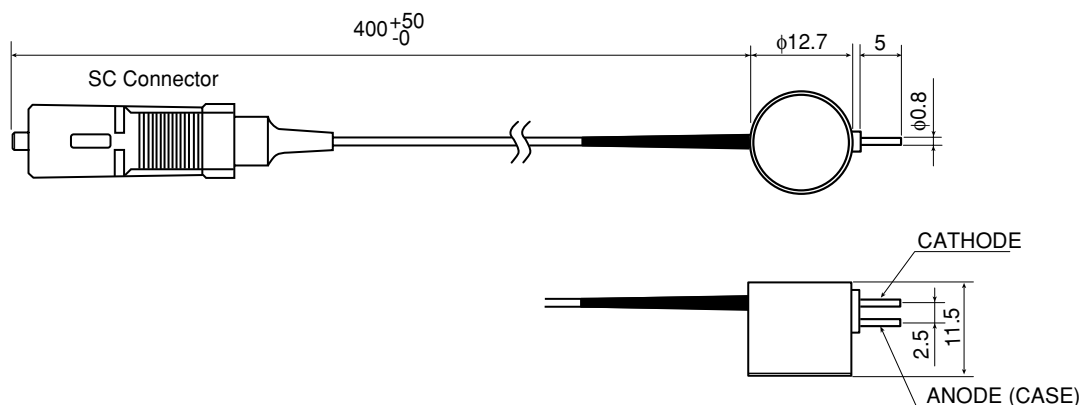
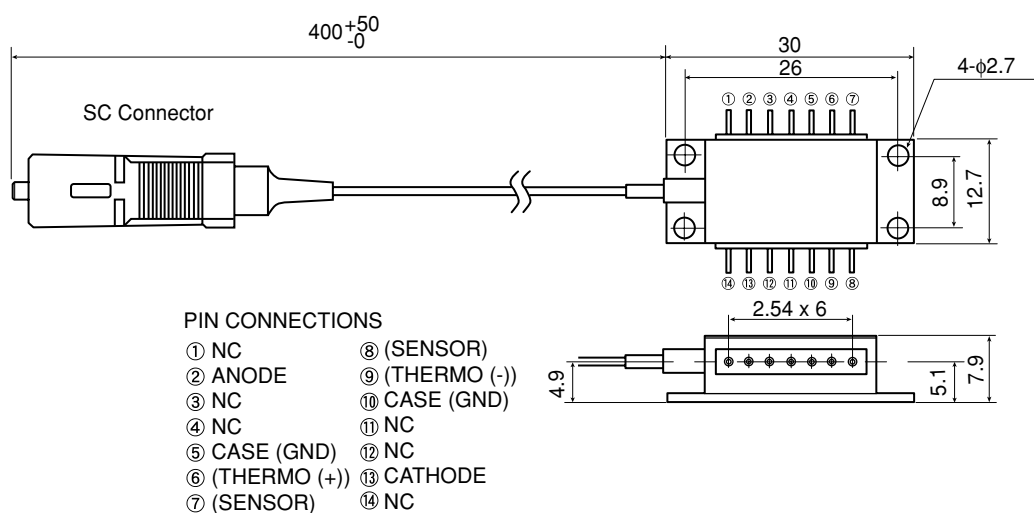


Figure 3: Dimensional Outline (Unit : mm)

1) Column Package



2) Butterfly Package



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