

A81S02M-10W S81S02M-15W

Product Information



Key Features:

- ◆ 10W,15W output power
- ◆ 375 μ m fiber bundle diameter
- ◆ 0.22NA
- ◆ 808nm wavelength
- ◆ 650nm aiming beam optional

Applications:

- ◆ Laser pumping
- ◆ Illumination
- ◆ Medical use
- ◆ Material processing



Sintec Optronics Technology Pte Ltd

10 Bukit Batok Crescent #07-02

The Spire, Singapore 658079

Tel: +65 63167112 Fax: +65 63167113

E-mail: sales@SintceOptronics.com or sales@sintec.sg

URL: <http://www.SintecOptronics.com> or <http://www.sintec.sg>

808nm High Power Fiber Bundled Diode Lasers

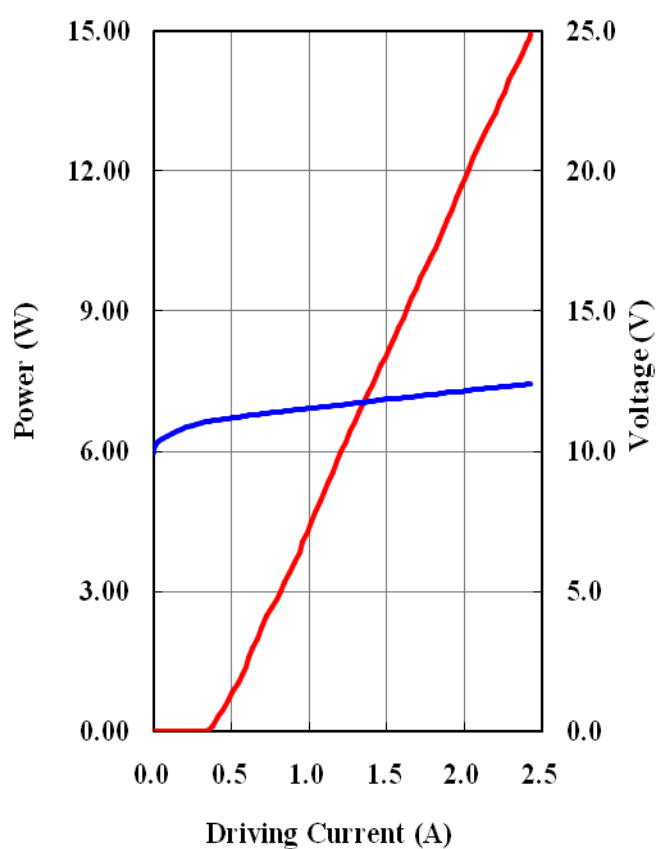
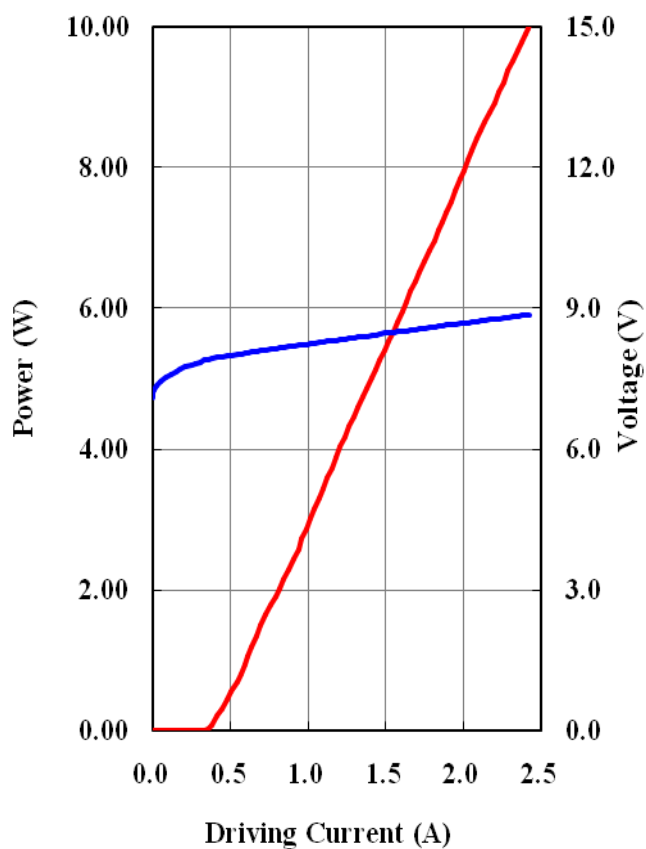
Specifications (25°C)		Symbol	Unit	K81D06M-10.00W	K81D06M-15.00W
Optical data	CW-output power ⁽¹⁾	P_o	W	10	15
	Center wavelength	λ_c	nm	808	
	Tolerance of λ	-	nm	$\pm 3, \pm 10$	
	Temperature drift of λ	-	nm/°C	~0.3	
Fiber data ⁽²⁾	Fiber core diameter	W_c	μm	375	
	Numerical aperture	NA	-	0.22	
	Fiber connector	-	-	SMA-905	
Electrical data	Operation current	I_{op}	A	2.6	3.0
	Threshold current	I_{th}	A	0.4	
	Conversion efficiency	η	%	40	
	Slope efficiency	η_D	W/A	4.7	6.6
	Operation voltage	V_{op}	V	~10.0	~14.0
	Reverse voltage	V_{re}	V	~10.0	~14.0
Others	Operation temperature	T_{op}	°C	10~30	
	Storage temperature	T_{st}	°C	-20~+80	
	Lifetime	MTBF	h	>10,000	
	Dimensions (fiber and connector not included)	-	mm	123×80×25	
	Weight	-	g	~600	

(1) All LDs inside are connected in serial.

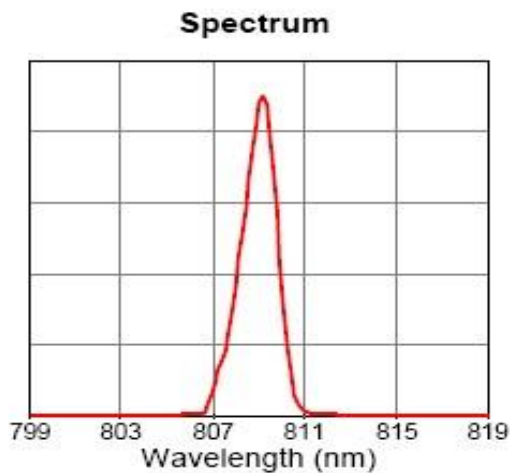
(2) Other fibers available.

808nm High Power Fiber Bundled Diode Lasers

Characteristics

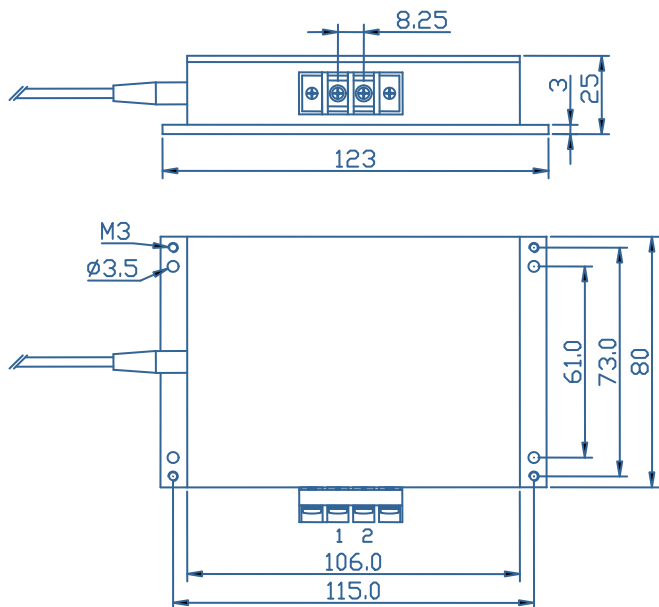


Typ. Spectrum (T=25°C)



808nm High Power Fiber Bundled Diode Lasers

Package Dimensions (mm)



Pin	Function
1	LD (+)
2	LD (-)

OPERATING NOTES

- Avoid eye exposure to direct or scattered radiation.
- ESD precautions must be taken.
- Use constant current power supply. Avoid surge current.
- Laser diode must be used according to the specifications.
- Laser diode must work with good cooling.
- A minimum bend diameter should be 300 times greater than the fiber diameter.
- Operation temperature is 10°C~ 30°C.
- Storage: -20°C~ +80°C, all pins short-circuit.

