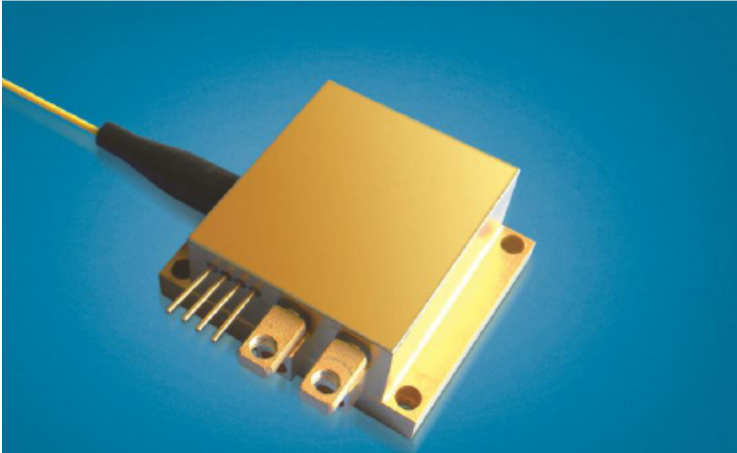


S98SABF-25W-R-G

Product Information



Key Features:

- ◆ 25W output power
- ◆ 976nm wavelength
- ◆ Narrow Bandwidth
 $\Delta\lambda < 0.5\text{nm}$
- ◆ 105 μm core / NA 0.22 fiber
- ◆ 1040nm-1100nm feedback protection

Applications:

- ◆ Laser Pumping



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976nm High Brightness Wavelength-Stabilized Diode Laser

Specifications (25°C)		Symbol	Unit	K98SABF-25.00W-R-G
Optical data	CW-output power	P_o	W	25
	Center wavelength	λ_c	nm	976
	Tolerance of λ	-	nm	± 0.5
	Spectral width (FWHM)	$\Delta\lambda$	nm	<0.5
	Spectral shift over temperature ⁽¹⁾	$\Delta\lambda/\Delta T$	nm/°C	~0.02
	Spectral shift over power	$\Delta\lambda/\Delta I_{op}$	nm/A	~0.05
Fiber data ⁽²⁾	Fiber core diameter	W_c	μm	105
	Numerical aperture	NA	-	0.22
	Fiber connector	-	-	SMA-905
Electrical data	Operation current	I_{op}	A	11
	Threshold current	I_{th}	A	0.6
	Conversion efficiency	η	%	46
	Slope efficiency	η_D	W/A	2.6
	Operation voltage	V_{op}	V	5.4
	Reverse voltage	V_{re}	V	7.5
Feedback	Wavelength range	λ	nm	1040-1100
Isolation	Isolation	-	dB	>45
Others	Operation temperature	T_{op}	°C	10~30
	Storage temperature	T_{st}	°C	-20~+80
	Lifetime	MTBF	h	>100,000
	Dimensions (fiber and connector not included)	-	mm	47.0 x 40.0 x 20.0
	Lead soldering temperature	T_{is}	°C	260(10 sec.)

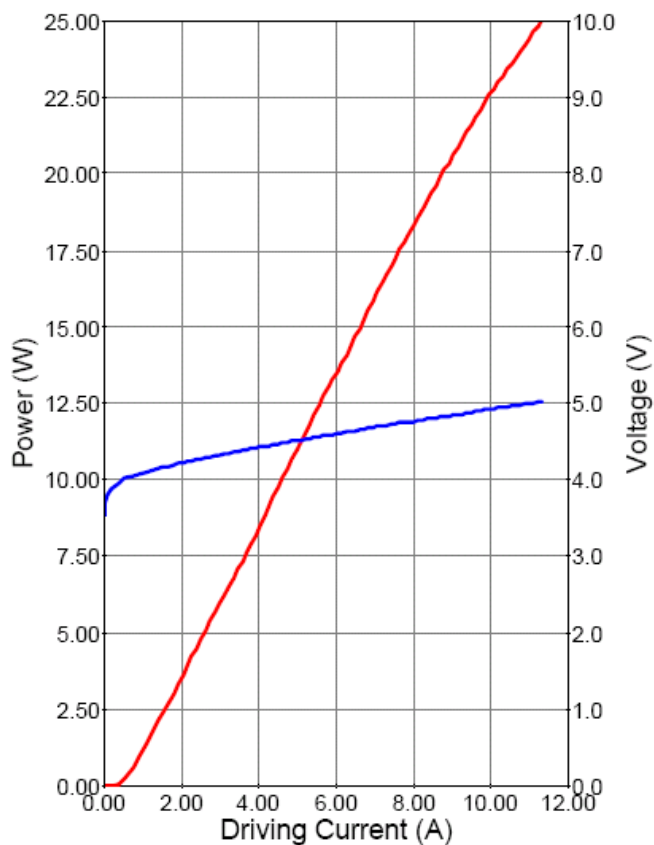
(1) Data measured under operation output at 25W.

(2) Other fibers available.

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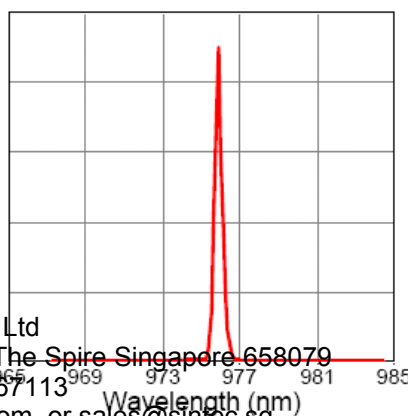
976nm High Brightness Wavelength-Stabilized Diode Laser

Characteristics



Typ. spectrum (T=25°C)

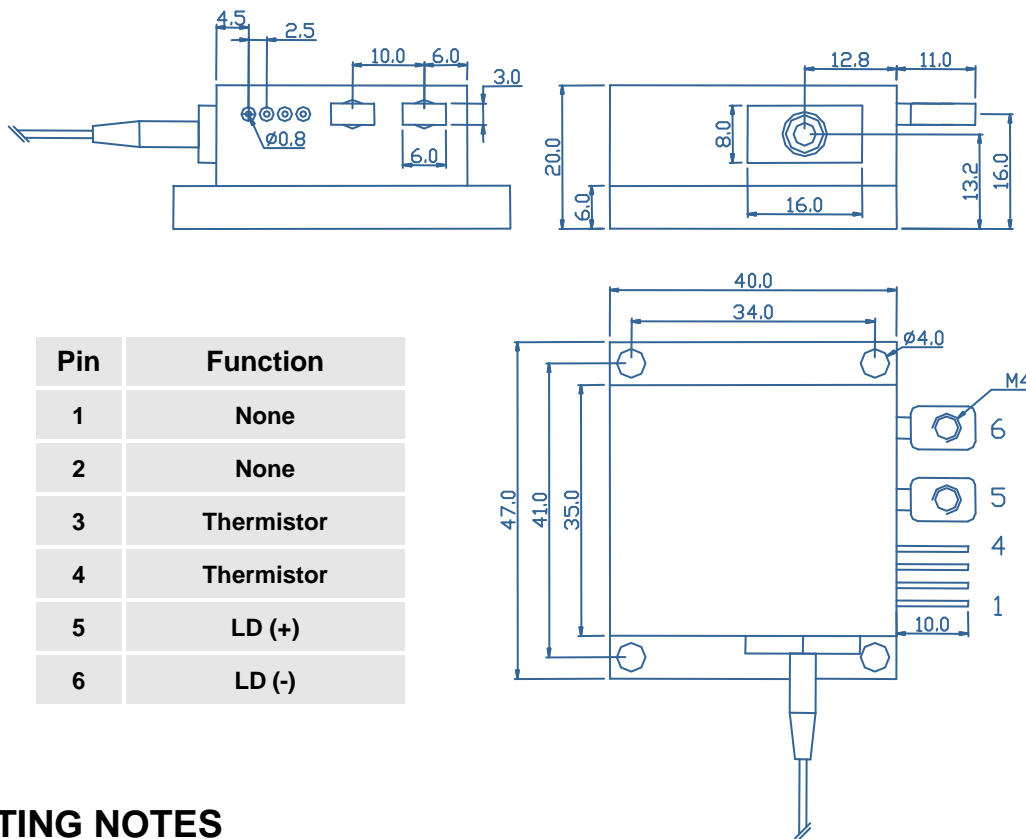
Spectrum



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976nm High Brightness Wavelength-Stabilized Diode Laser

Package Dimensions (mm)



OPERATING NOTES

- Avoid eye exposure to direct or scattered radiation.
- ESD precautions must be taken.
- Please connect pins to wires by solder instead of using socket when operation current is higher than 6A. Soldering point should be close to the root of the pins. Soldering temperature should be lower than 260°C and time shorter than 10 second.
- 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.

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