

Applications:

- spectroscopy
- optical sensors
- optical coherence tomography
- optical metrology
- others

FEATURES:

- up to 120 nm tuning range*

* When used as an active element of an external cavity semiconductor laser.

PACKAGES: DIL, DBUT

Specifications

(Nominal Emitter Stabilization Temperature +25 °C)

Mode	Parameter	Min	Typ.	Max
SLD-mode (angled fiber cleave)	Output power ex SM fiber at maximum forward current, mW		3.0	
	Forward current, mA		200	240
	Peak Wavelength, nm		1020	
	Spectral width, nm	100	110	
	Residual spectral modulation, %		5.0	10.0
Laser-mode (normal fiber cleave)	Threshold current, mA		40	60
	External slope efficiency, mW/mA	0.2	0.3	
	Output power in SM fiber, mW			10.0**
	Forward voltage, V		2.0	2.2
	Operating temperature (case temperature), °C	-55		+70
	Cooler current, A			1.2
	Cooler voltage, V			3.5

** Exceeding this value in any external cavity may result in device damage.

The following part numbers should be used when **ordering**:

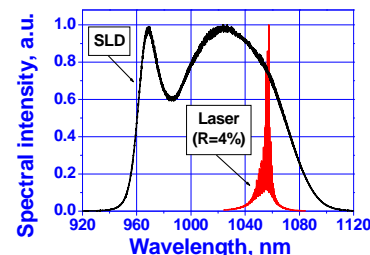
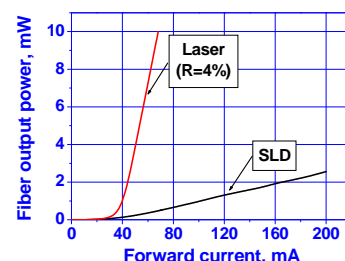
SOA-521-(a)-(b)-(c),
where:

- (a) – package type,
- (b) – fiber type (SM or PM),
- (c) – PD (if PD monitor is required).

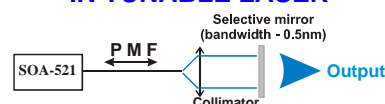
Example: SOA-521-DBUT-SM-PD.

All specifications are subject to change without notice.
For more details, please visit our web site: www.superlumdiodes.com.

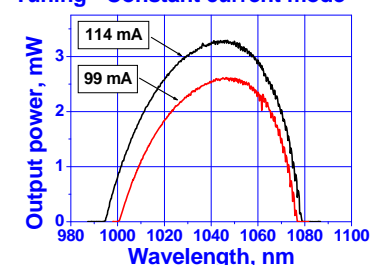
PERFORMANCE EXAMPLES



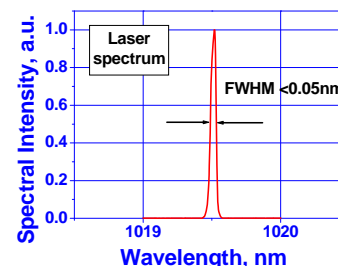
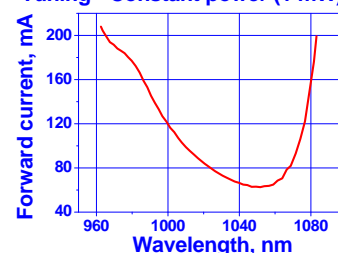
EXAMPLE OF USAGE IN TUNABLE LASER



Tuning - Constant current mode



Tuning - Constant power (1 mW)



A lot of customized solutions are available — contact us with your detailed requirements!