

**Features:**

- high output power, 5 mW ex SM fiber, 15 mW free space
- flat spectrum with small residual Fabry-Perot modulation depth
- typical -20-dB secondary coherence subpeaks

**Packages:**

- **fiber coupled** – DIL, Butterfly
- **free space** – TOW 1, 2, TO 9

**Applications:**

- atomic force microscopy
- optical sensors
- optical coherence tomography
- optical measurements
- others

**Specifications**

(Nominal Emitter Stabilization Temperature +25 °C)

Parameter	Min	Typ.	Max
Output power ex SM fiber	4	5	-
Output power, mW, Glass Window*	12	15	-
Forward current, mA	-	160	200
Forward voltage, V	-	2.6	-
Peak wavelength, nm	-	680	-
Spectrum width, nm	7	8	-
Residual spectral modulation depth, %	-	2.0	5.0
Secondary coherence subpeaks, dB (10 log)	-	-20	-
Slow / fast polarization ratio (PM "polarized" modules), dB**	5	10	-
Operating temperature range (case), °C***	-55	-	+75
Cooler current, A	-	-	1.2
Cooler voltage, V	-	-	3.5

\* TOW or TO packaged SLDs

\*\* pseudo-depolarized versions (light is launched into the fiber at 45 degrees to the birefringent axes) are available upon request;

\*\*\* Butterfly packaged SLDs

**Additional & customized:**

- PD-monitors
- FC/APC terminated pigtails
- PM pigtails (polarized or pseudo-depolarized output)

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

SLD-26(a)-HP-(c)-(d)-(e),

where:

a – 0 (free space) or 1 (fiber pigtailed),

c – package type,

d – type of fiber, SM (isotropic) or PM (polarization maintain)

e – PD (if a PD monitor is required).

Example: SLD-261-HP-DBUT-SM-PD

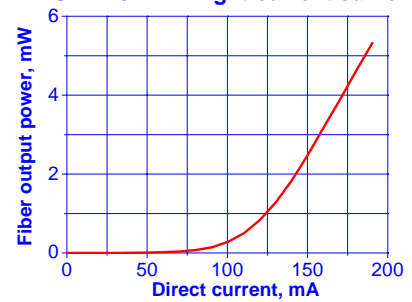
**10<sup>-3</sup> maximum feedback is allowed to run HP series SLDs safely at full power.**

**Attention:** center wavelength is guaranteed with a tolerance of ±10 nm. If the center wavelength is not explicitly specified in the order, an SLD centered at any wavelength within the range of 680±10 nm may be shipped.

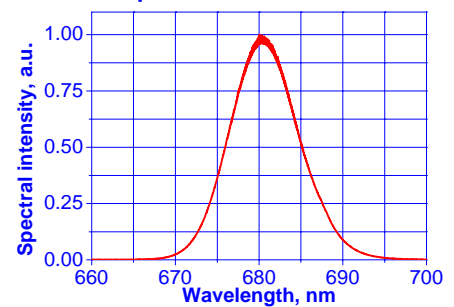
All specifications are subject to change without notice.

**PERFORMANCE EXAMPLES**

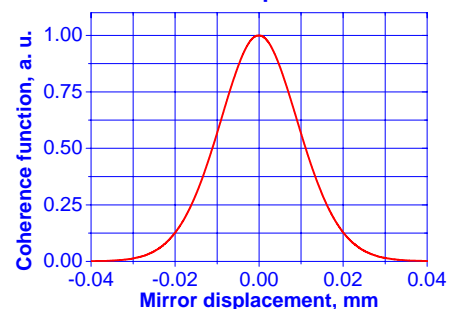
SLD-261-HP. Light-current curve



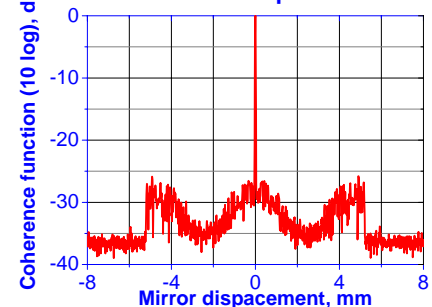
Spectrum at 5mW ex fiber



Short displacement



Extended displacement



Mirror displacement = Optical path difference / 2

