

**Features:**

- CW output power of up to 5.0 mW
- LD-like spatial brightness, single transverse mode output
- Bell-shaped LED-like spectrum with very small ripples

**Applications:**

- Atomic force microscopy
- Optical coherence tomography
- Optical sensors
- Optical measurements
- Low speckle illumination
- Others

**TO-9 Package\***



\* Free-space SLD modules in “cooled” TOW packages with internal TEC and thermistor for SLD temperature stabilization are available upon request.

**Specifications (at +25 °C case):**

Parameter	Category	Min	Typ.	Max
Output power, P, mW	MP1	1.5	-	3.0
	MP2	3.0	-	5.0
Forward current, mA	All	-	-	160
Forward voltage, V	All	-	-	3.0
Central wavelength <sup>†</sup> , nm	All	660	670	680
Spectrum width <sup>†</sup> , nm	All	6.0	7.5	-
Residual spectral modulation depth <sup>†</sup> , % (Resolution 0.02 nm)	All	-	<1.0	2.0
Wavelength shift with temperature at P=3 mW, dλ/dT, nm/°C, to λ at +25 °C	All	-	0.28	-
Secondary coherence subpeaks <sup>†</sup> , (10 log), dB	All	-	-25	-
Polarization ratio <sup>†</sup> , dB	All	-	>20	-
Far field divergence in the p-n junction plane <sup>†</sup> , degrees	All	-	10	-
Far field divergence in the plane normal to p-n junction <sup>†</sup> , degrees	All	-	35	-
PD monitor photocurrent <sup>†</sup> , μA	MP1	50	-	-
	MP2	100	-	-
Operating temperature <sup>‡</sup> , °C	All	-20	-	+35
Storage temperature, °C	All	-55	-	+85

<sup>†</sup> At an output power of 3 mW (MP1) / 5 mW (MP2) and a case temperature of +25 °C.

<sup>‡</sup> At +35 °C, maximum output power should not exceed 1.5 mW (MP1) or 2.5mW (MP2).

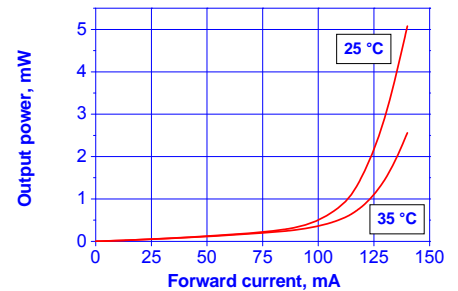
The following part numbers should be used when **ordering**:  
 SLD-260-MP(a)-(b)-PD-670,  
 where: (a) – power category (MP1 or MP2), (b) – package type.

Example: SLD-260-MP2-TO9-PD-670

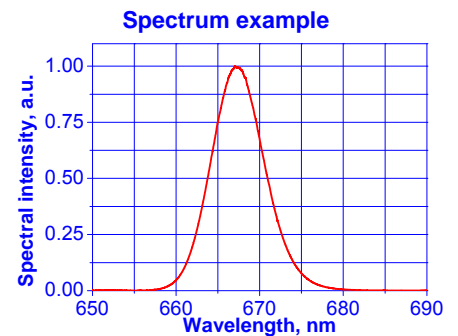
All specifications are subject to change without notice.

**PERFORMANCE EXAMPLES**

**Light-current curves at different case temperatures**



**Spectrum example (5 mW)**



**Far field (5 mW)**

