

Features:

- Spatial brightness comparable to that of laser diodes
- Flat spectrum (comparable to that of LEDs) with negligible residual Fabry-Perot modulation depth
- Spectral ripple of 2% or less
- maximum parasitic secondary coherence subpeaks of -20 dB (10log)

Applications:

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

TO9 Package



Specifications (at +25 °C)

Parameter	Min	Typ.	Max
Output power, mW, in a cone N.A.=0.71 (emitter @ +25 °C)	10		20
Forward current*, mA			160
Forward voltage, V			2.6
Peak wavelength†, nm	820	835	850
Wavelength shift around +25 °C, dλ/dT, nm/°C		0.3	
Spectrum width, nm	15	17 – 18	
Residual spectral modulation depth‡, %		1.0	2.0
Secondary coherence subpeaks‡ (10 log), dB		-25	-20
Polarization ratio, dB		5	
PD monitor photocurrent, μA	100		
dP/dT around +25 °C, %/°C, at a constant forward current§		-2	
Storage temperature, °C	-55		+85

* Maximum output power is guaranteed at a forward current of 160 mA or less.
 † SLDs at other center wavelengths, for example, 790±10 nm, are available upon request.
 ‡ At an output power of 10 mW.
 § In percent of the value of output power at +25 °C. Typical value for output power is 5 – 20 mW at +25 °C. Note: operation at high temperature accelerates aging and reduces lifetime.

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

SLD-380-MP-TO9-PD.

All specifications are subject to change without notice.

PERFORMANCE EXAMPLES

