

Features:

- CW output power of up to 15 mW
- LD-like spatial brightness, single transverse mode output
- Bell-shaped LED-like spectrum with very small ripples

Applications:

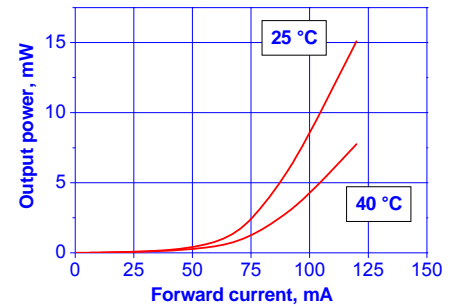
- Atomic force microscopy
- Optical coherence tomography
- Optical sensors
- Optical measurements
- Low speckle illumination
- Others

TO-9 Package

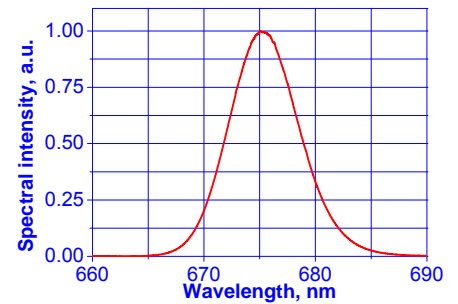


PERFORMANCE EXAMPLES

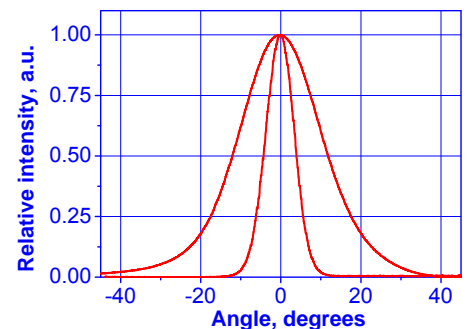
Light-current curves at different case temperatures



Spectrum example (15 mW)



Far field (15 mW)



Specifications (at +25 °C case):

Parameter	Min	Typ.	Max
Output power*, P, mW	-	-	15
Forward current, mA	-	-	220
Forward voltage, V	-	-	3.0
Central wavelength†, nm	660	670	680
Spectrum width*, nm	6.0	7.5	-
Residual spectral modulation depth†, % (Resolution 0.02 nm)	-	<1.0	2.0
Wavelength shift with temperature at P>5mW, dλ/dT, nm/°C, to λ at +25 °C	-	0.28	-
Secondary coherence subpeaks*, (10 log), dB	-	-25	-
Polarization ratio*, dB	-	>20	-
Far field divergence in the p-n junction plane*, degrees	-	9	-
Far field divergence in the plane normal to p-n junction*, degrees	-	25	-
PD monitor photocurrent*, μA	50	-	-
Operating temperature†, °C	-20	-	+40
Storage temperature, °C	-55	-	+85

* At an output power of 15 mW and a case temperature of +25 °C.

† At +40 °C, maximum output power should not exceed 7.5 mW.

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

SLD-260-HP-TO9-PD-670

All specifications are subject to change without notice.

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