



FBLD-976-27W-FC105-VBG-4Pin

Wavelength Stabilized Fiber-coupled Laser Diode

Features:

CW Output Power 27W
Fiber Core Diameter 105µm / NA 0.22
Wavelength Stabilized (VBG)
Feedback Protection Filter

Option:

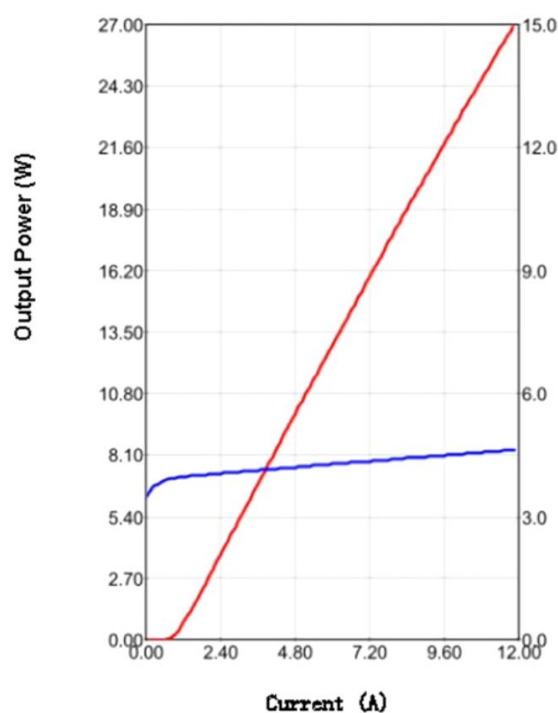
Thermistor

Optical Data	
CW Output Power (W)	27
Center Wavelength λ (nm)	976
Tolerance of λ (nm)	± 0.5
Spectral Width (FWHM) (nm)	< 1
Temperature Drift of λ (nm/°C)	~ 0.02
Current Drift of λ (nm/A)	~ 0.05
Fiber Data	
Fiber Core / Clad Diameter (µm)	105 / 125
Numerical Aperture (NA)	0.22
Connector	None (SMA-905 optional)
Fiber Length (m)	1 $\pm$ 0.1
Electrical Data	
Threshold Current (A)	0.8
Operation Current (A)	12
Conversion Efficiency (%)	45
Slope Efficiency (W/A)	2.4
Operation Voltage (V)	5.4
Reverse Voltage (V)	7.5
Feedback Isolation	
Wavelength Bandwidth (nm)	1030 – 1200
Isolation (dB)	> 30

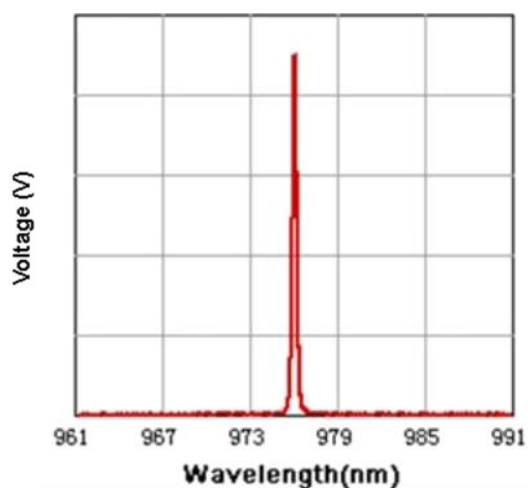
* Need to be specified

Temperature Conditions	
Case Operation Temperature (°C)	25 – 35
Storage Temperature (°C)	-20 - 70
Other Parameters	
Thermistor (kΩ) / β (25°C)	10±5% / 3477
Laser Head Dimensions (mm) (Fiber and connector not included)	43 x 25 x 10.5
Lead Soldering Temperature (°C)	260 (10s)

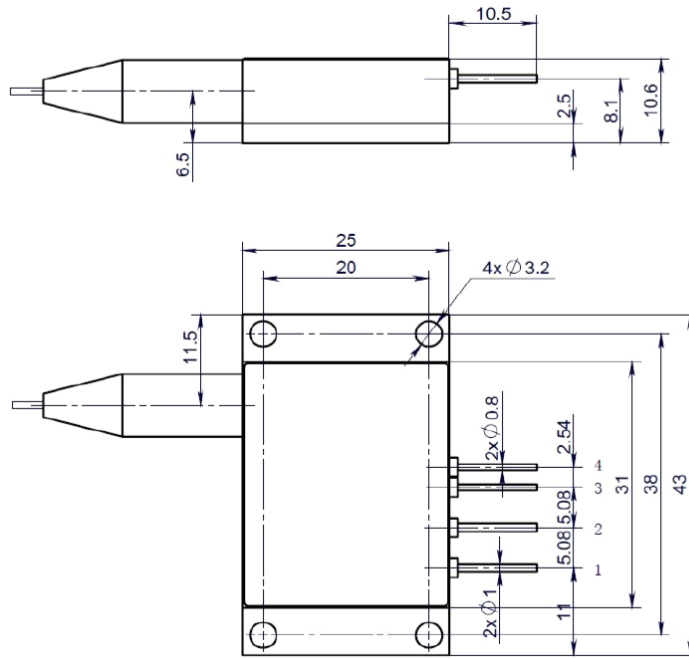
Characteristics



Typ. Spectrum (25 °C)



Package Dimensions (mm)



Pin	Function
1	LD (+)
2	LD (-)
3	Thermistor*
4	Thermistor*