



FBLD-785-0.6W-FC105-VBG-BTF

Wavelength Stabilized Fiber-coupled Laser Diode

Features:

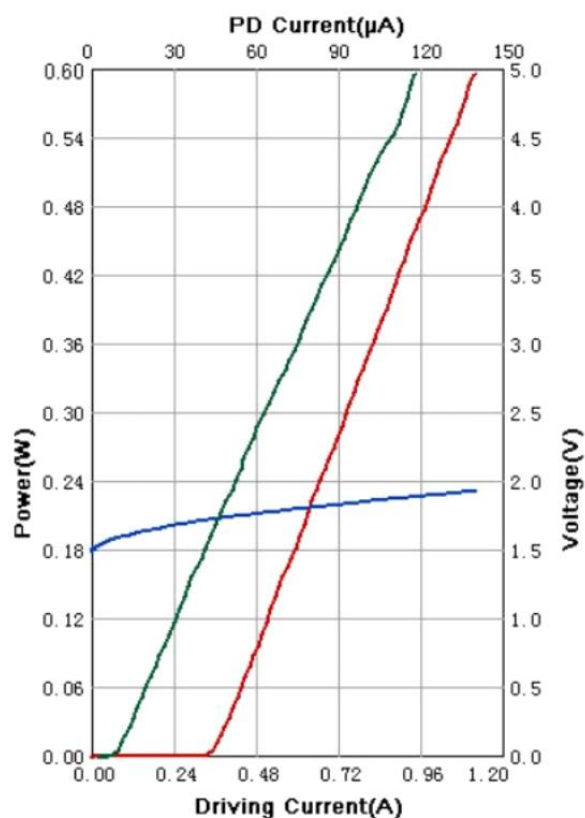
CW Output Power 600mW
Fiber Core Diameter 105µm / NA 0.22
Wavelength Stabilized (VBG)
TEC, Photodiode & Thermistor
Butterfly Package

Optical Data	
CW Output Power (mW)	600
Center Wavelength λ (nm)	785
Tolerance of λ (nm)	± 0.5
Spectral Width (FWHM) (nm)	≤ 0.3
Temperature Drift of λ (nm/°C)	~ 0.02
Fiber Data	
Fiber Core / Clad Diameter (µm)	105 / 125
Numerical Aperture (NA)	0.22
Connector	SMA-905 / FC/APC*
Electrical Data	
Threshold Current (A)	0.4
Operation Current (A)	1.3
Conversion Efficiency (%)	~ 30
Slope Efficiency (W/A)	0.6
Operation Voltage (V)	2
TEC Data	
Max. Current (A)	2.2
Max. Voltage (V)	8.75

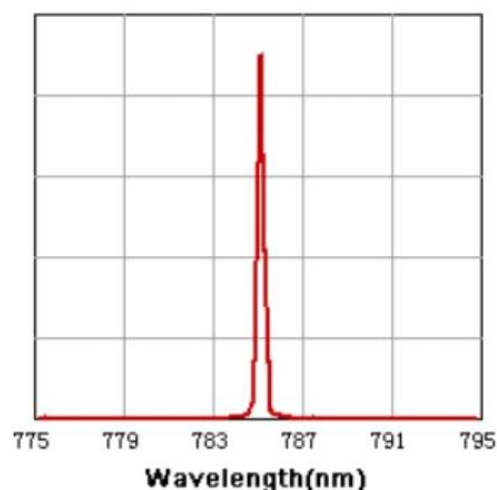
* Need to be specified

Temperature Conditions	
Case Operation Temperature (°C)	10 - 30
Storage Temperature (°C)	-20 - 70
Other Parameters	
Thermistor (kΩ) / β (25°C)	10±5% / 3477
Photodiode Current (μA)	50 - 500
Laser Head Dimensions (mm) (Fiber and connector not included)	30 x 12.7 x 8.4
Lead Soldering Temperature (°C)	260 (10s)

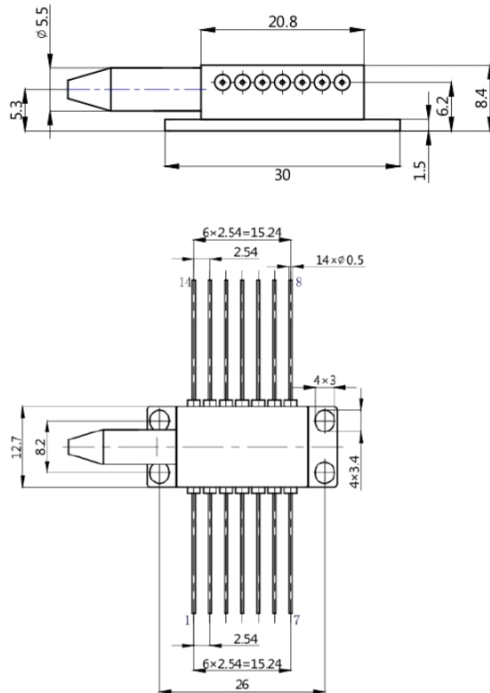
Characteristics



Typ. Spectrum (25 °C)



Package Dimensions (mm)



Pin	Function	Pin	Function
1	TEC (+)	8	-
2	-	9	LD (-)
3	PD (N) *	10	LD (+)
4	PD (P) *	11	-
5	Thermistor*	12	-
6	Thermistor*	13	-
7	-	14	TEC (-)