Single Emitter Diode Laser (CW)

FM01

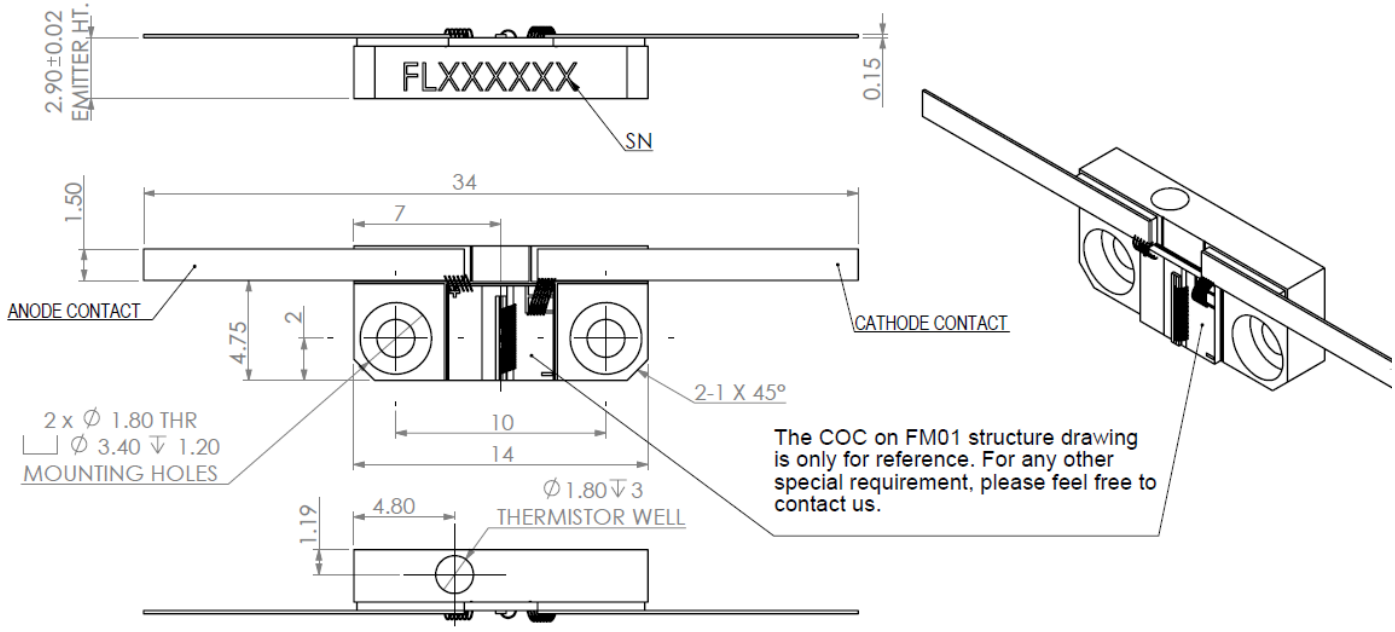
Features

- AuSn bonding
- Harsh environment use

Applications

- Pumping
- Medical
- Industry
- Display
- Scientific research

Product Dimensions (mm)



Remark: The structure drawing is for reference only. Please feel free to contact us for any special requirements.

Focuslight Technologies Inc.
Address: 56 Zhangba 6th Road, High-Tech Zone, 710077 Xi'an, Shaanxi, P. R. China
Tel: +86 29 8188 9945 | **Email:** sales@focuslight.com | **Website:** https://www.focuslight.com

Product Specifications

Product Code		OPD000018	OPD000031	OPD000036	OPD000038
Part No. [1]		FL-FM01-10-808	FL-FM01-12-915	FL-FM01-12-940	FL-FM01-12-976
Optical Data[2]	**Unit**	**Value**			
Centroid Wavelength	nm	808	915	940	976
Wavelength Tolerance	nm	± 3	± 5	± 5	± 5
Emitter Width	μm	200	100	100	100
Output Power[3]	W	10	12	12	12
Spectral Width FWHM	nm	≤ 3	≤ 4.2	≤ 4.5	≤ 4.5
Spectral Width 90% Energy	nm	≤ 5	≤ 6	≤ 6.5	≤ 7
Fast Axis Divergence (FWHM)	°	~ 30	~ 30	~ 30	~ 30
Slow Axis Divergence (FWHM)	°	8	8	8	8
Polarization Mode	-	TE	TE	TE	TE
Wavelength Temp. Coefficient	nm / °C	~ 0.28	~ 0.32	~ 0.33	~ 0.34
Electrical Data [2]					
Operation Current	A	≤ 11.8	≤ 13.8	≤ 13.8	≤ 13.8
Threshold Current	A	≤ 1.8	≤ 0.8	≤ 0.9	≤ 0.8
Operating Voltage	V	≤ 2.2	≤ 2	≤ 2	≤ 2
Slope Efficiency	W / A	≥ 0.9	≥ 0.95	≥ 0.95	≥ 0.95
Power Conversion Efficiency	%	≥ 44	≥ 52	≥ 52	≥ 50
Thermal Data					
Operating Temperature	°C	15 ~ 30	15 ~ 30	15 ~ 30	15 ~ 30
Storage Temperature [4]	°C	-40 ~ 55	-40 ~ 55	-40 ~ 55	-40 ~ 55
Recommended Heatsink Capacity	W	≥ 20	≥ 24	≥ 24	≥ 24

Product Code		OPD000021	OPD000033	OPD000079	OPD000039
Part No. [1]		FL-FM01-10-808-Y	FL-FM01-12-915-Y	FL-FM01-12-940-Y	FL-FM01-12-976-Y
Optical Data[2]	**Unit**	**Value**			
Fast Axis Divergence (FWHM)	°	~ 8	~ 8	~ 8	~ 8

All other specifications same as above.

[1] Part No. = Brand Code - Series - Power - Centroid Wavelength (- Collimation).

[2] Data at 25°C temperature, unless otherwise stated.

[3] Lifetime reduced if overused under nominal operating condition.

[4] A non-condensing environment is required for storage and operation below ambient dew point.

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