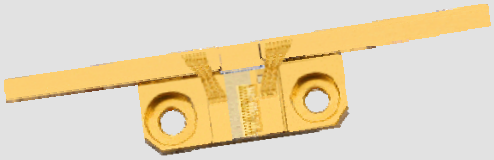
FOCUSDEVICE™

F-mount Single Emitter Diode Laser (CW)

FM01



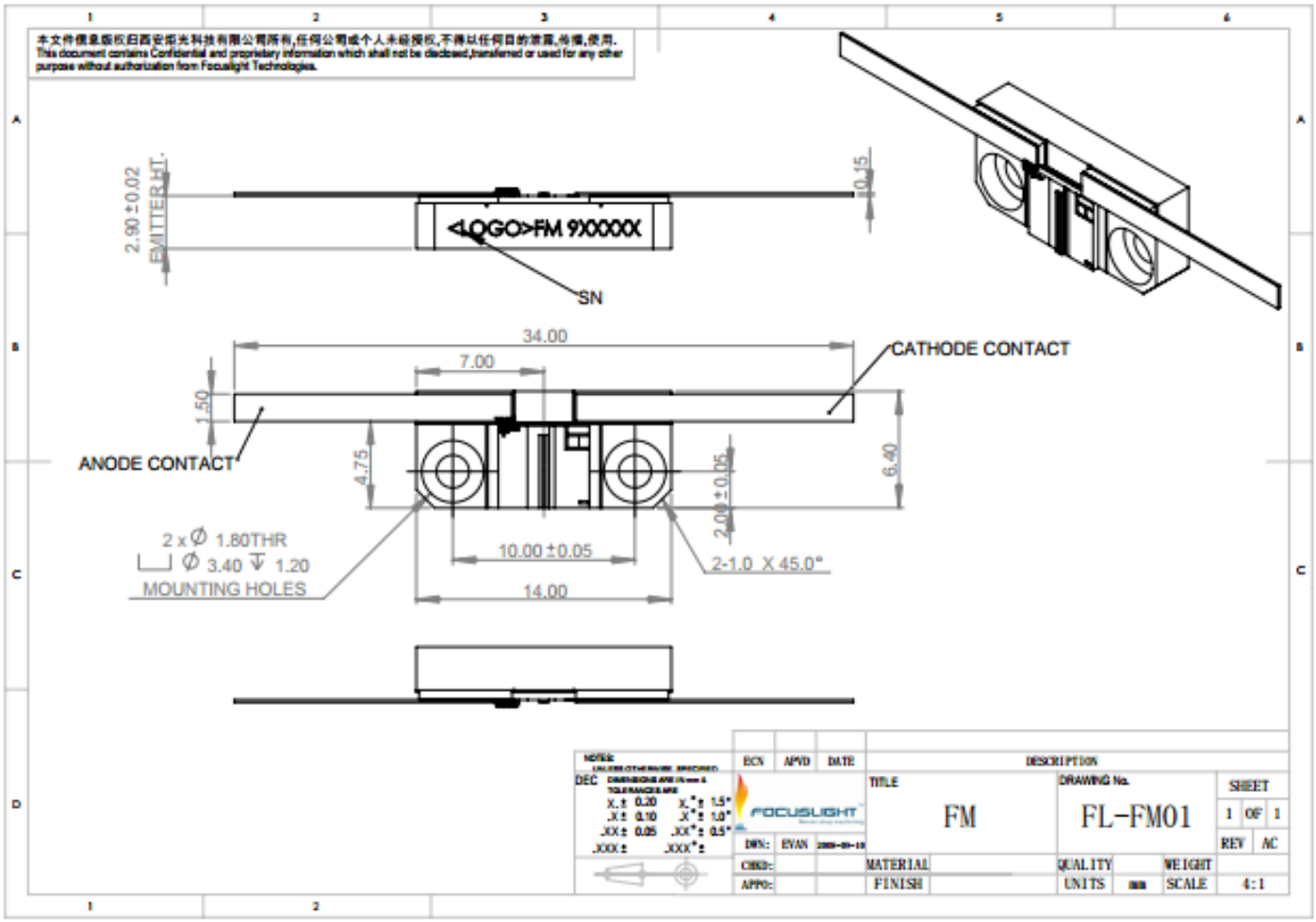
Features

- AuSn bonding
- High Stability
- Harsh environment applications
- High brightness
- High reliability

Applications

- Display
- Industry
- Scientific research
- Pumping
- Medical

Device Dimension (mm)



This structure drawing is only for reference. For any other special requirement, please feel free to contact us.

Specification

Module Type [1]	Units	FL-FM01-10-808	FL-FM01-10-915	FL-FM01-10-940	FL-FM01-10-976
Optical [2]					
Center Wavelength λ	nm	808	915	940	976
Wavelength Tolerance	nm	±3	±5	±5	±5
Output Power [3]	W	10	10	10	10
Spectral Width FWHM	nm	⩽3	⩽4	⩽4	⩽4
Spectral Width FW90%E	nm	⩽5	⩽6	⩽6	⩽6
Fast Axis Divergence(FWHM) [4]	degree	35	35	35	35
Slow Axis Divergence (FWHM)	degree	8	8	8	8
Polarization Mode	-	TM	TE	TE	TE
Wavelength Temp. Coefficient	nm/℃	~0.28	~0.32	~0.32	~0.32
Electrical Parameters [2]					
Operating Current I_{op}	A	⩽11.5	⩽11	⩽11	⩽11
Threshold Current I_{th}	A	⩽1.75	⩽0.9	⩽0.9	⩽0.9
Operating Voltage V_{op}	V	⩽2.1	⩽2	⩽2	⩽2
Slope Efficiency	W/A	⩾1	⩾1.1	⩾1.1	⩾1.1
Power Conversion Efficiency	%	⩾45	⩾55	⩾55	⩾55
Thermal Parameters					
Operating Temperature	℃	15~30	15~30	15~30	15~30
Storage Temperature [5]	℃	-40~55	-40~55	-40~55	-40~55
Recommended Heatsink Capacity	W	⩾20	⩾20	⩾20	⩾20

[1]FL(abbreviation of Focuslight) - FM01(structure code) - 10(output power) - 808(center wavelength).

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

[3]Reduced lifetime if used above nominal operating conditions.

[4]For fast axis collimation: divergence <5°.

[5]A non-condensing environment is required for storage and operation below ambient dew point
If there are any other requirements, please contact us.

FOCUSLIGHT®
Never stop exploring

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