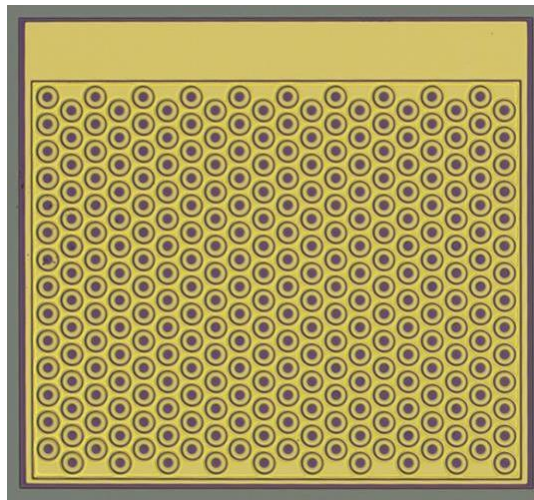


808nm 1.5W VCSEL Laser Chip

Part No.: D-V0808M-1500-0034

Suitable for pulse power applications and the power is 1.5W



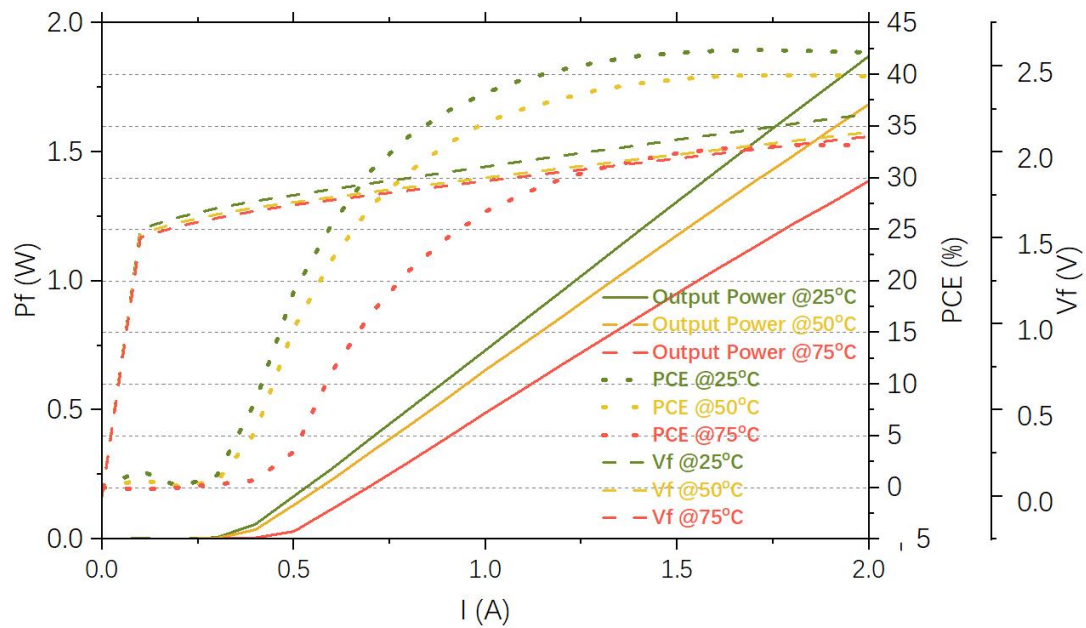
Features

- VCSEL (Vertical-Cavity Surface-Emitting Laser)
- High efficiency and reliability
- Stable central wavelength, narrow line width
- Doughnut shaped, symmetrical far field
- Surface mountable

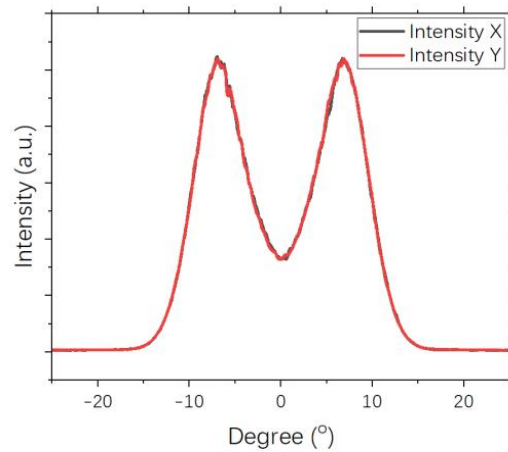
Applications

- Sensor light source
- Consumer electronic products
- Machine vision
- Red lighting

L-I-V Curve



FFDA (Far-Field Divergence Angle) (~23° at 30 mA)

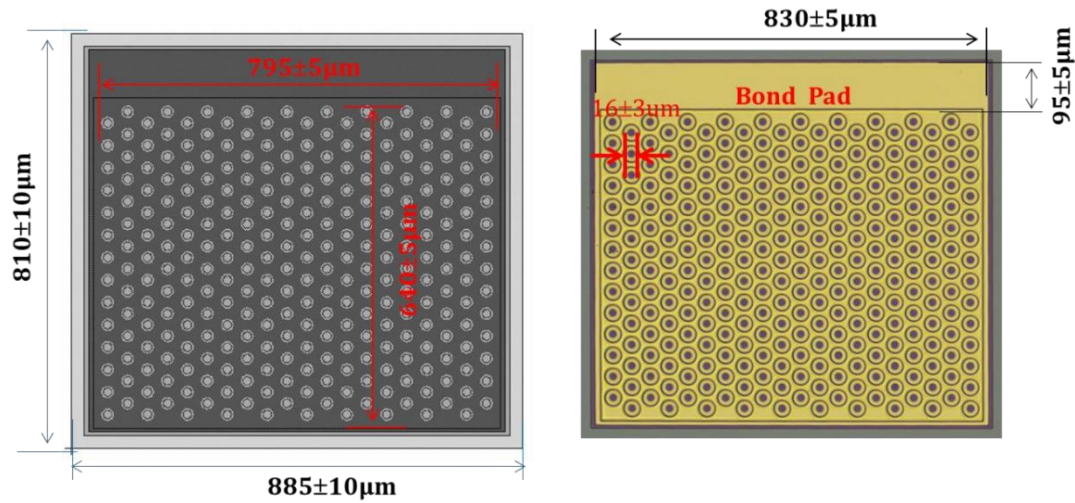


Electrical Optical Characteristics

Parameter	Symbol	Unit	Min.	Typ.	Max	Note
Threshold Current	I _{th}	mA	200	350	400	
Forward Voltage	V _F	V	2.0	2.2	2.4	IF = 2A
Differential Resistance	R _s	Ohms	--	0.3	--	
Slop Efficiency	SE	W/A	1	1.1	--	
Output Power	P _{op}	mW	1700	1850	--	IF = 2A
Power Conversion Efficiency	PCE	%	40	42		IF = 2A
Wavelength	λ _{op}	nm	800	808	820	
Divergence Angle(1/e ²)		deg	22	24	26	IF = 2A

25°C, QCW Model (Pulse length 0.1ms, 3% Duty Cycle)

Mechanical Specifications



参数 Parameter	规格 Specification
芯片尺寸 Die size	885±10µm x 810±10µm
芯片厚度 Die Thickness	150±10µm
光孔数目 Number of Emitters	280
焊盘尺寸 (正极) Bond Pad Size (Anode Pad)	95±5µm X 830±5µm
背面电极尺寸 (负极) Back Electrode Size (Cathode Pad)	885±10µm x 810±10µm

