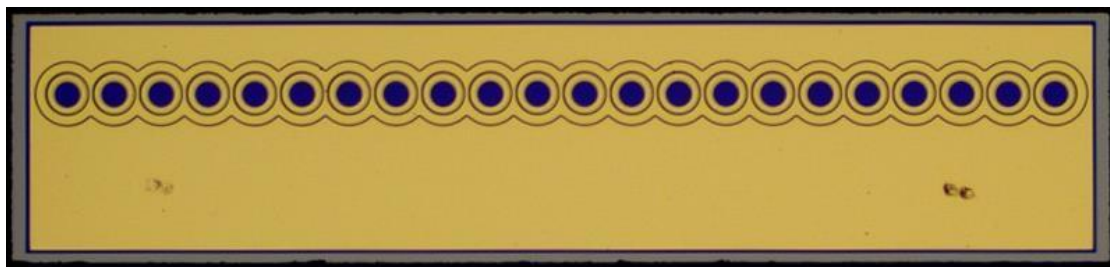


808nm 400mW VCSEL Laser Chip

Part No.: D-V0808M-0400-0841

Suitable for pulse power applications and the power is 400mW



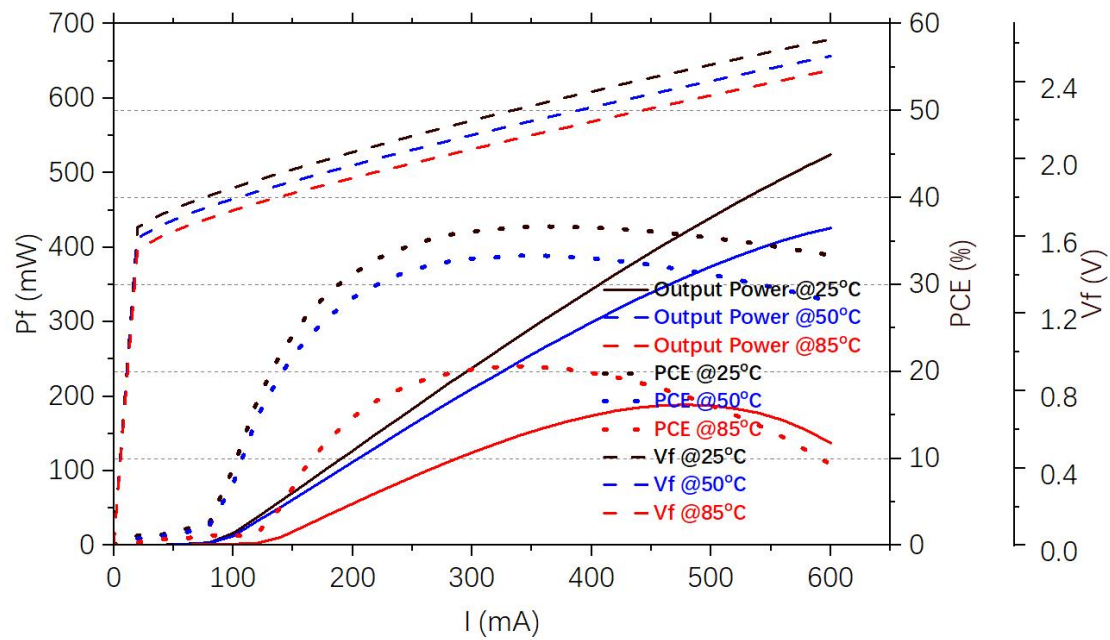
Features

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

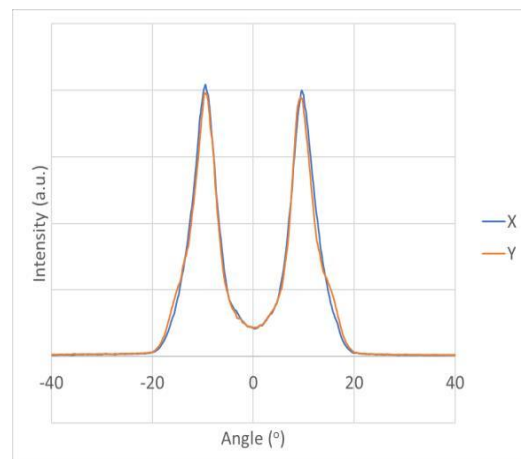
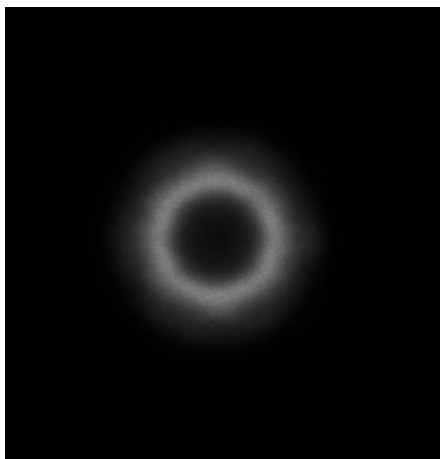
Applications

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

L-I-V Curve



Far Field profile

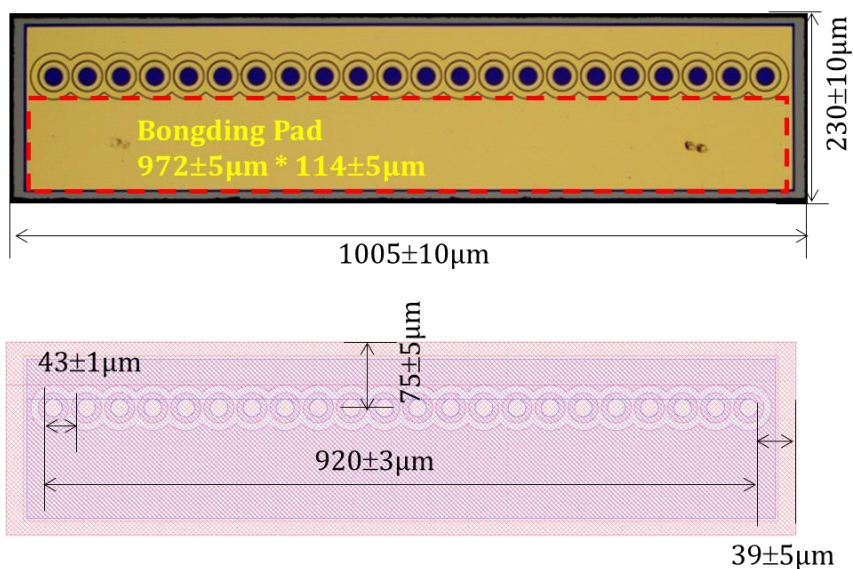


Electrical Optical Characteristics

Parameter	Symbol	Unit	Min.	Typ.	Max	Note
Threshold Current	I _{th}	mA	80	90	100	
Forward Voltage	V _F	V	2.4	2.5	2.6	IF = 500mA
Differential Resistance	R _s	Ohms	--	1.5	--	
Slop Efficiency	SE	W/A	1.0	1.05	1.2	
Output Power	P _{op}	mW	420	440	460	IF = 500mA
Power Conversion Efficiency	PCE	%	34	35	37	IF = 500mA
Wavelength	λ _{op}	nm	800	808	816	
Divergence Angle(1/e ²)		deg	30	33	35	IF = 500mA

25°C, QCW Model (Pulse length 0.1ms, 10% Duty Cycle)

Mechanical Specifications



参数 Parameter	规格 Specification
芯片尺寸 Die size	1005±10um * 230±10um
芯片厚度 Die Thickness	130±10μm
光孔数目 Number of Emitters	22
发光点尺寸 Emitting Aperture	20±1um
焊盘尺寸 (正极) Bond Pad Size (Anode Pad)	972±5μm * 114±5μm
背面电极尺寸 (负极) Back Electrode Size (Cathode Pad)	1005±10um * 230±10um

