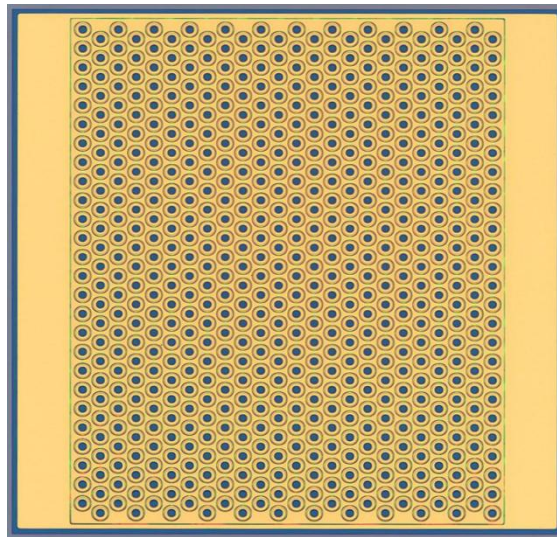


808nm 3W VCSEL Laser Chip

Part No.: D-V0808M-3000-0043

Suitable for pulse power applications and the power is 3W



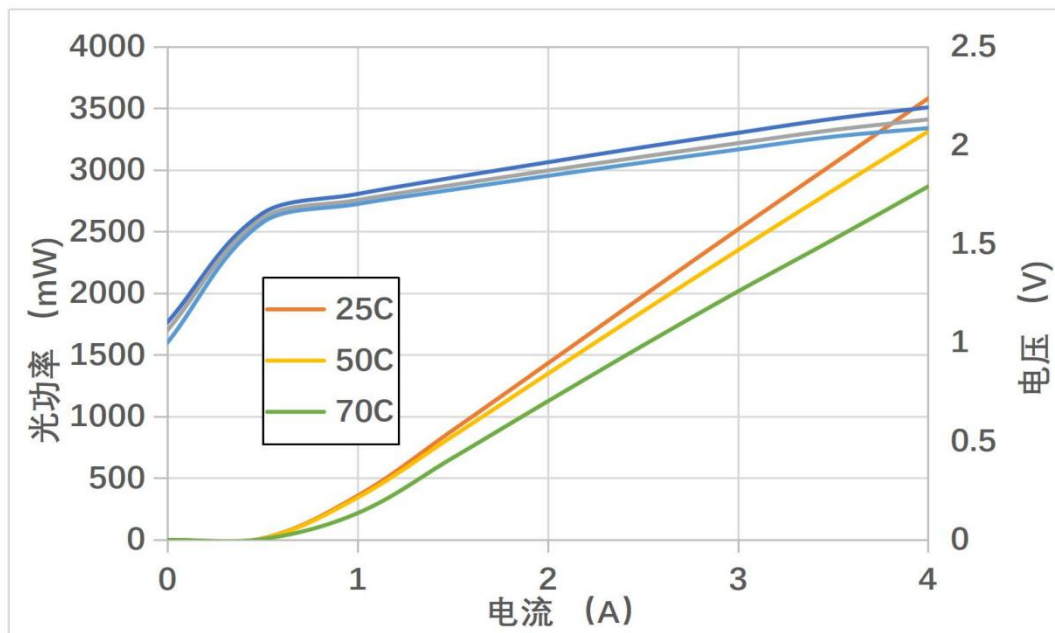
Features

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

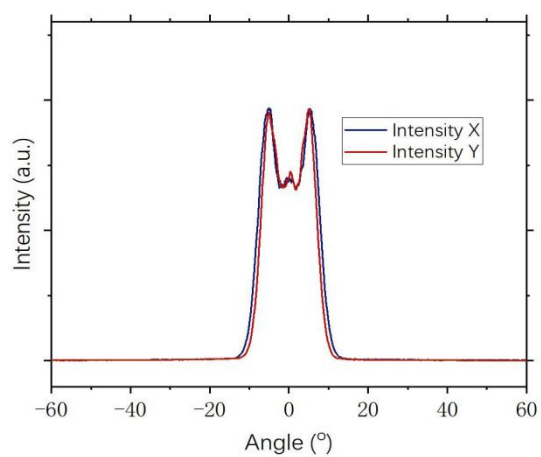
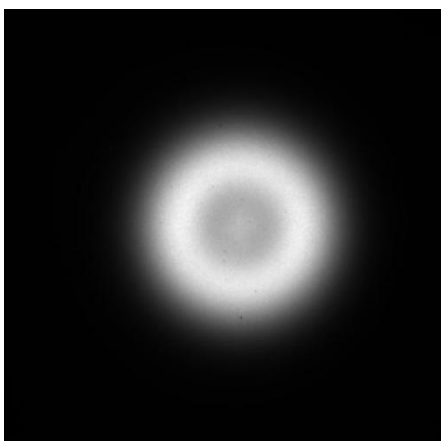
Applications

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

L-I-V Curve



Far Field profile

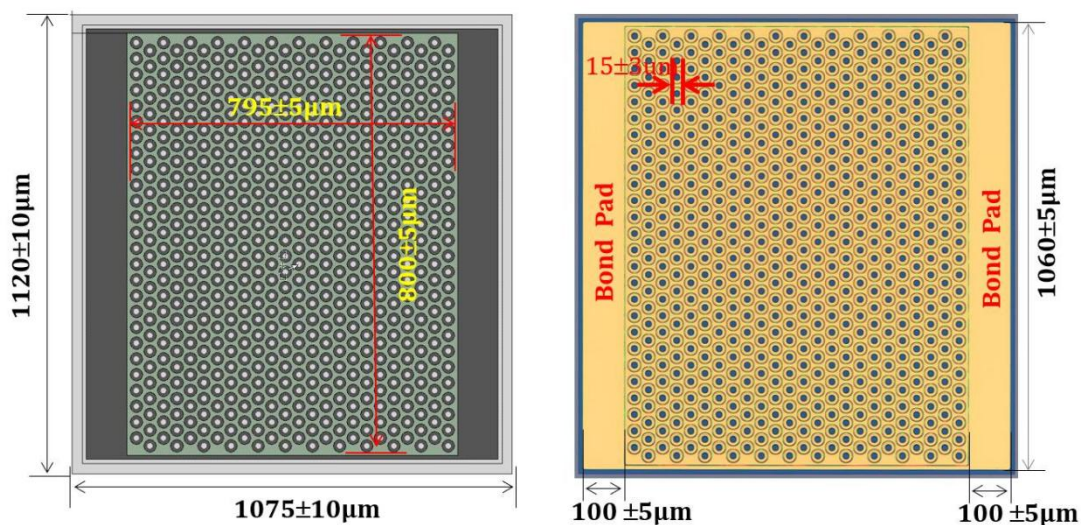


Electrical Optical Characteristics

Parameter	Symbol	Unit	Min.	Typ.	Max	Note
Threshold Current	I _{th}	mA	--	690	--	
Forward Voltage	V _F	V	2.1	2.2	2.4	IF = 4A
Differential Resistance	R _s	Ohms	--	0.2	--	
Slop Efficiency	SE	W/A	--	1.1	--	
Output Power	P _{op}	W	3.2	3.6	--	IF = 4A
Power Conversion Efficiency	PCE	%	--	41	--	IF = 4A
Wavelength	λ _{op}	nm	798	808	818	
Divergence Angle(1/e ²)		deg	17	21	23	IF = 4A

25°C, QCW Model (Pulse length 0.5ms, 1% Duty Cycle)

Mechanical Specifications



参数 Parameter	规格 Specification
芯片尺寸 Die size	1075±10µm x 1120±10µm
芯片厚度 Die Thickness	150±10µm
光孔数目 Number of Emitters	624
焊盘尺寸 (正极) Bond Pad Size (Anode Pad)	100±10µm x 1060±10µm x 2
背面电极尺寸 (负极) Back Electrode Size (Cathode Pad)	1075±10µm x 1120±10µm

