

660nm 7mW VCSEL Laser Chip

Part No.: D-V0660M-0007-0007

Suitable for pulse power applications and the power is 7mW



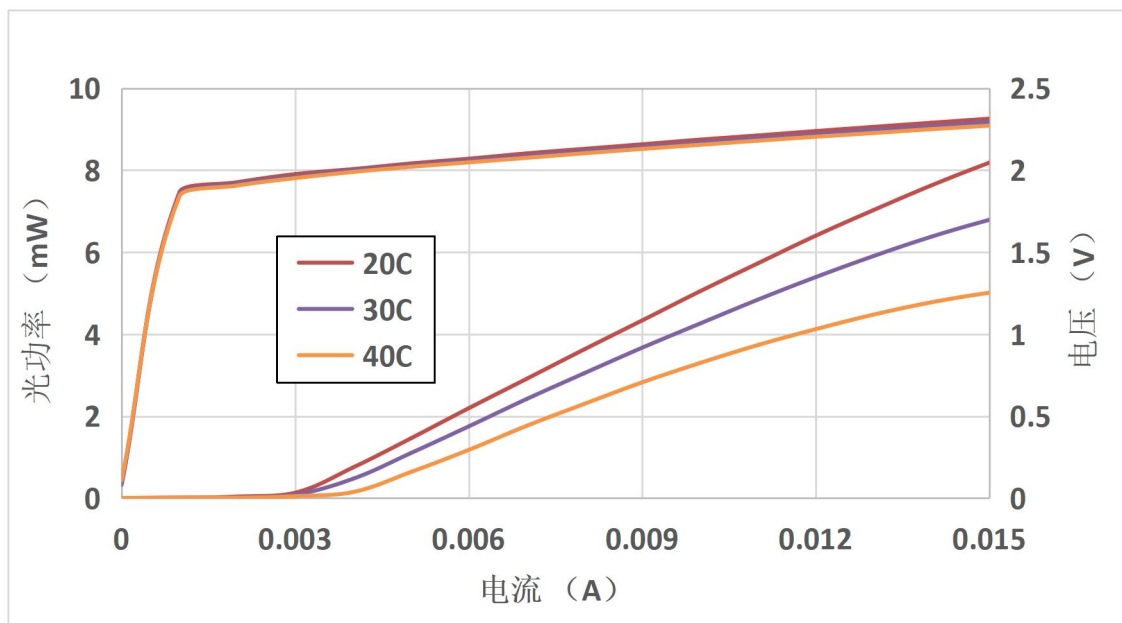
Features

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

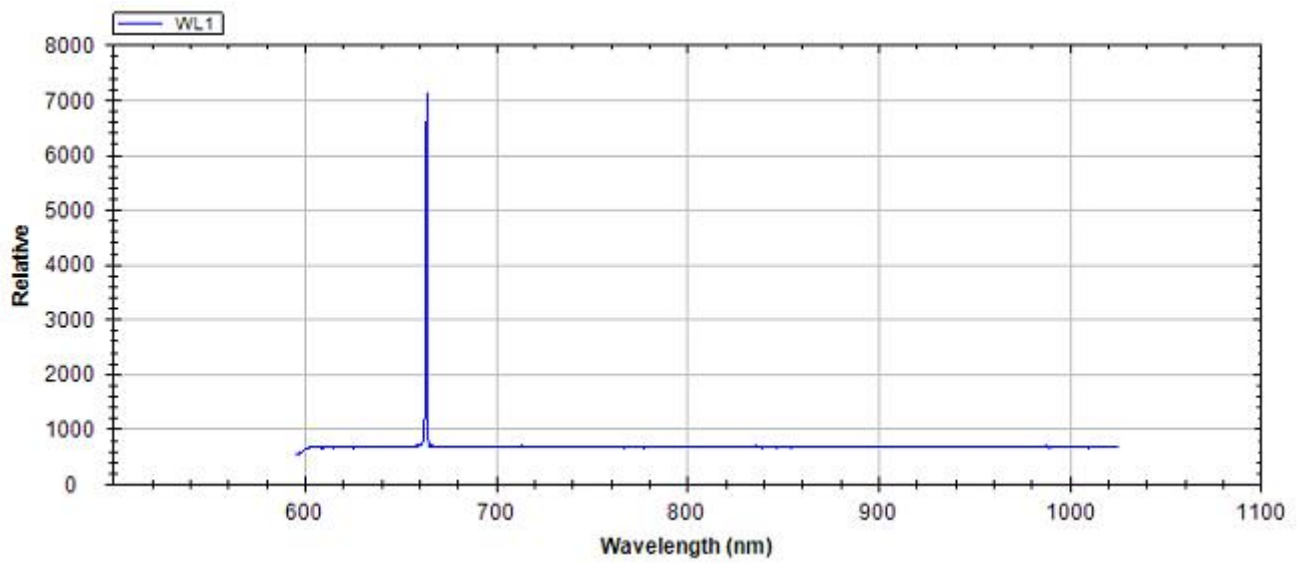
Applications

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

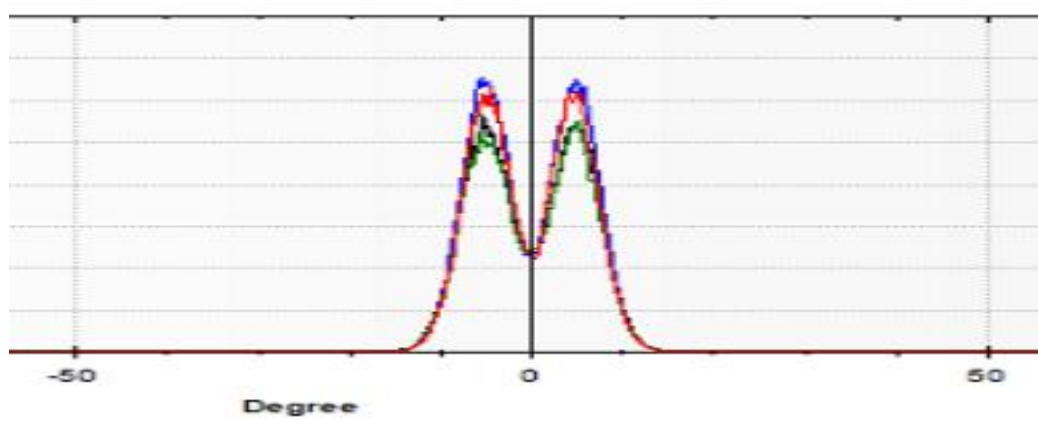
L-I-V



Spectroscopy



FFDA (Far-Field Divergence Angle) ($\sim 20^\circ$ at 15mA)

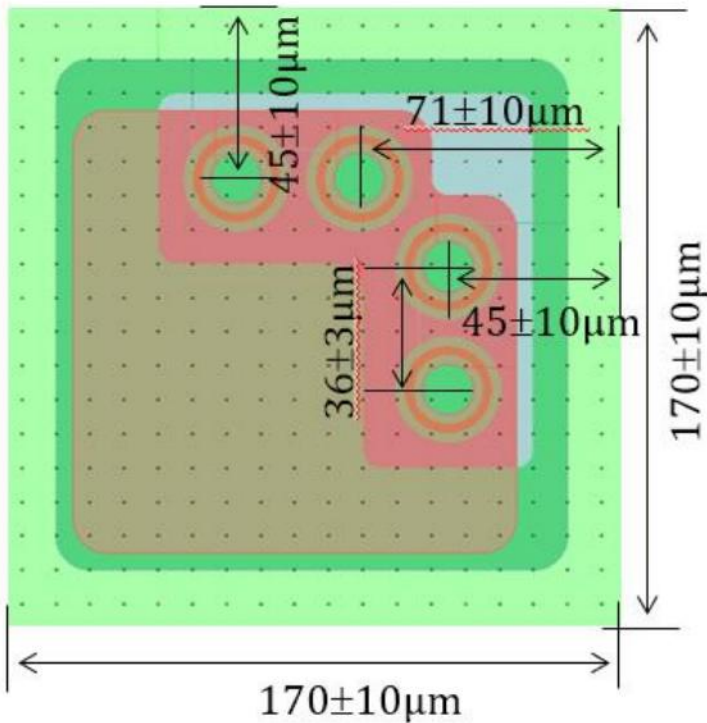


Electrical Optical Characteristics

Parameter	Symbol	Unit	Min.	Typ.	Max	Note
Threshold Current	I _{th}	mA	3.0	4.0	5.0	
Forward Voltage	V _F	V	2.15	2.35	2.55	IF = 15mA
Output Power	P _{op}	mW	5.0	7.5	10	IF = 15mA
Slop Efficiency	SE	W/A	0.5	0.65	0.8	
Power Conversion Efficiency	PCE	%	15	20	25	IF = 15mA
Wavelength	λ _{op}	nm	655	660	665	
Divergence Angle(1/e ²)		deg		20		IF = 15mA

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

Mechanical Specifications



μm

参数 Parameter	规格 Specification
芯片尺寸 Die size	170±10μm x 170±10μm
芯片厚度 Die Thickness	130±10μm
光孔数目 Number of Emitters	4
焊盘尺寸（正极） Bond Pad Size（Anode Pad）	87±3μm x 85±3μm
背面电极尺寸（负极） Back Electrode Size（Cathode Pad）	170±10μm * 170±10μm

