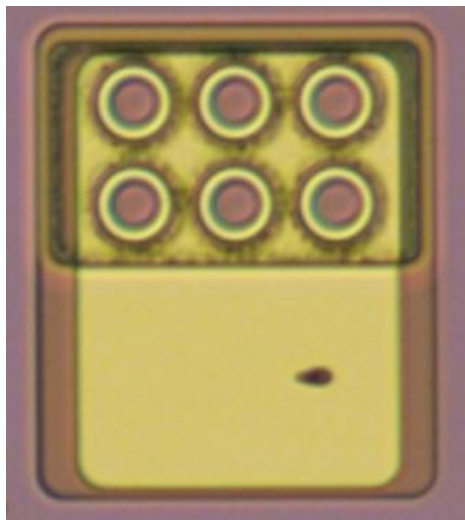


665nm 9mW VCSEL Laser Chip

Part No.: D-V0665M-0009-0007

Suitable for pulse power applications and the power is 9mW



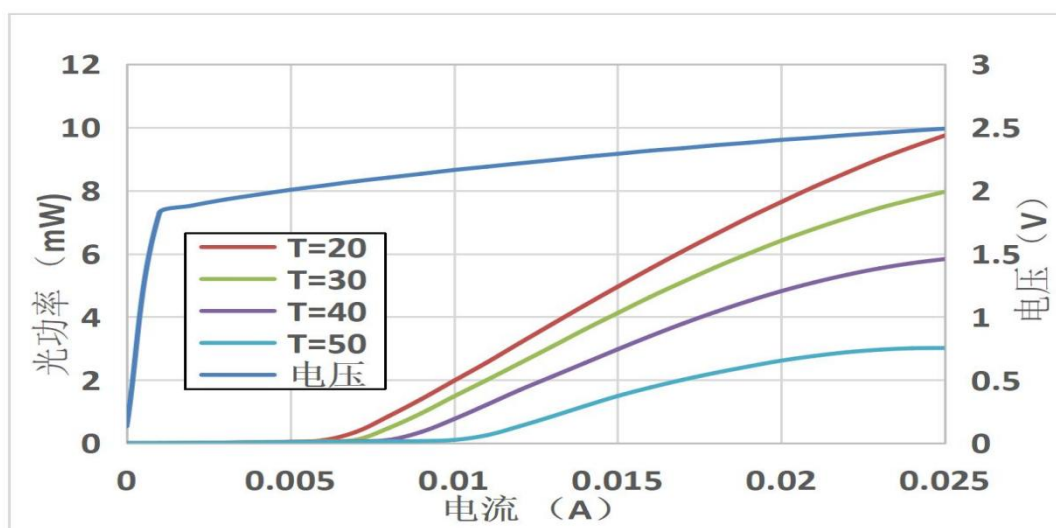
Features

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

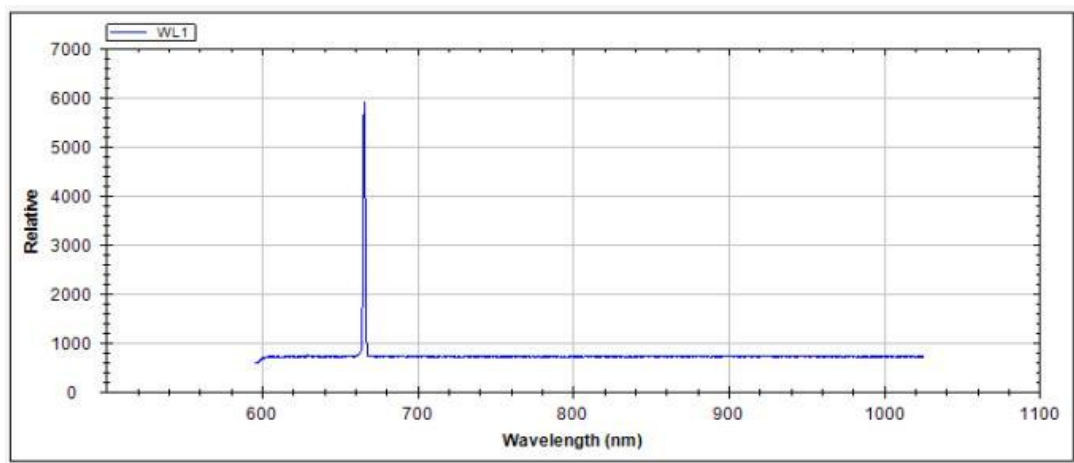
Applications

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

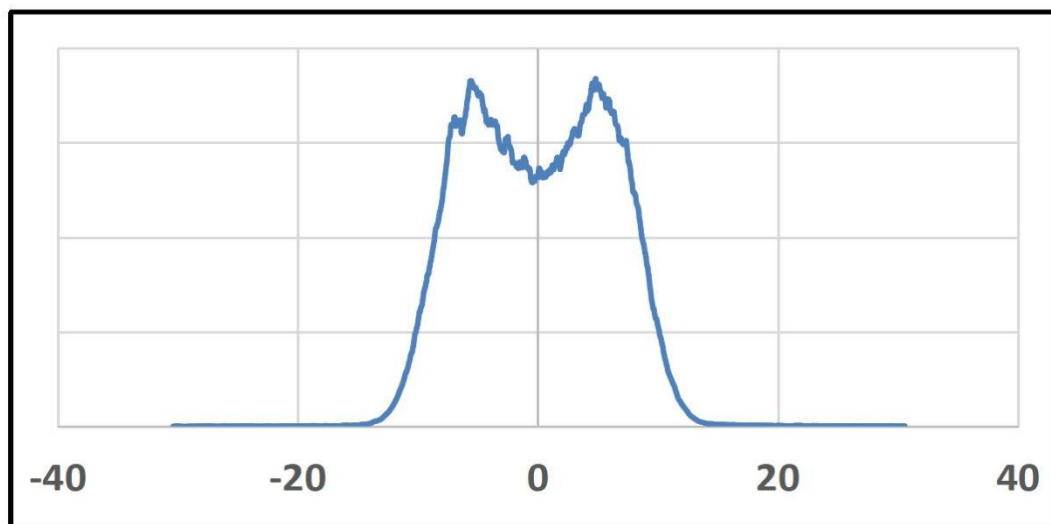
L-I-V



Spectroscopy



FFDA (Far-Field Divergence Angle) ($\sim 22^\circ$ at 25 mA)

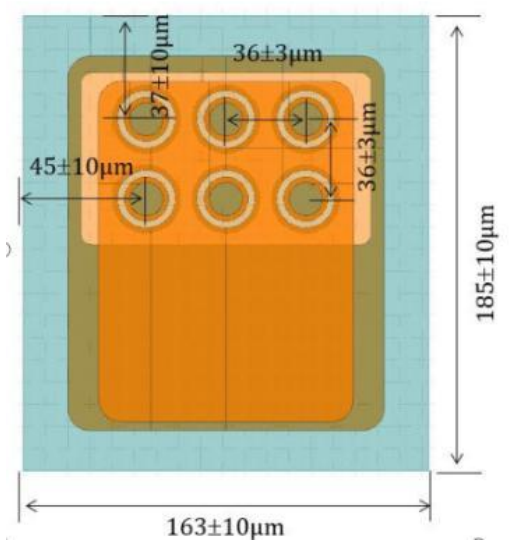


Electrical Optical Characteristics

Parameter	Symbol	Unit	Min.	Typ.	Max	Note
Threshold Current	I _{th}	mA	5.0	7.0		
Forward Voltage	V _F	V	2.4	2.6	2.8	IF = 25mA
Output Power	P _{op}	mW	7.0	9.0		IF = 25mA
Slop Efficiency	SE	W/A	0.55	0.7		
Power Conversion Efficiency	PCE	%	16	18		IF = 25mA
Wavelength	λ _{op}	nm	661	665	669	
Divergence Angle(1/e ²)		deg		22		IF = 25mA

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	163±10um x 185±10um
芯片厚度 Die Thickness	130±10µm
光孔数目 Number of Emitters	6
焊盘尺寸（正极） Bond Pad Size（Anode Pad）	115±3µm x 80±3µm
背面电极尺寸（负极） Back Electrode Size（Cathode Pad）	163±10um x 185±10um

