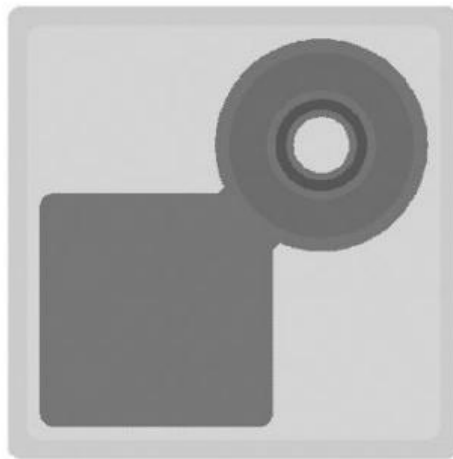


670nm 4mW VCSEL Laser Chip

Part No.: D-V0670M-0004-0008

Suitable for pulse power applications and the power is 4mW

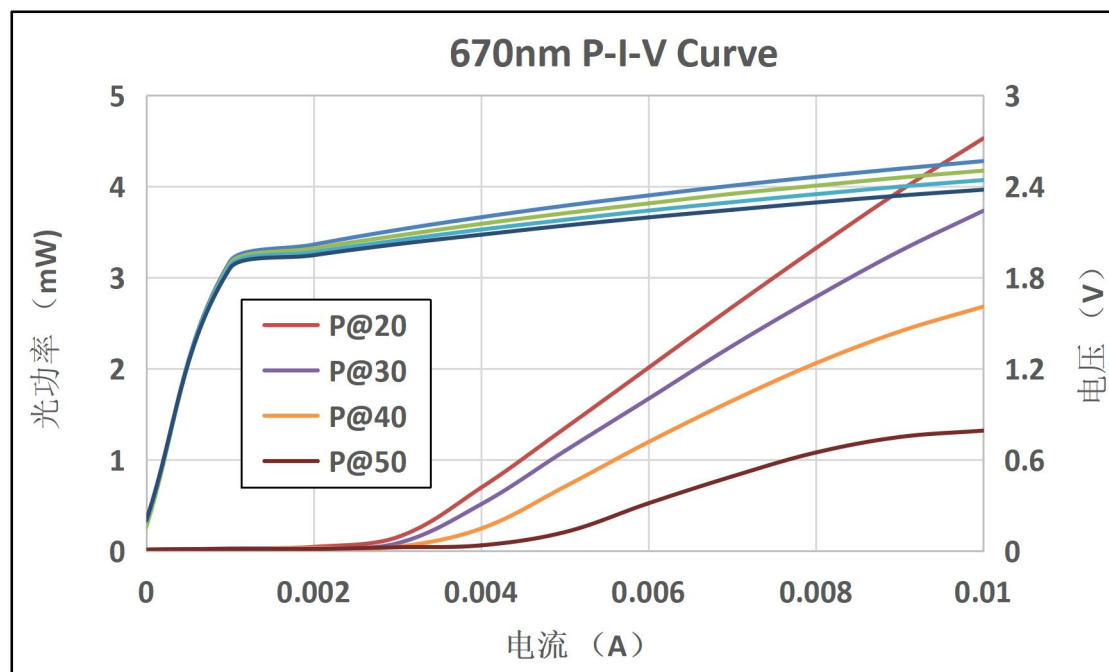


Features

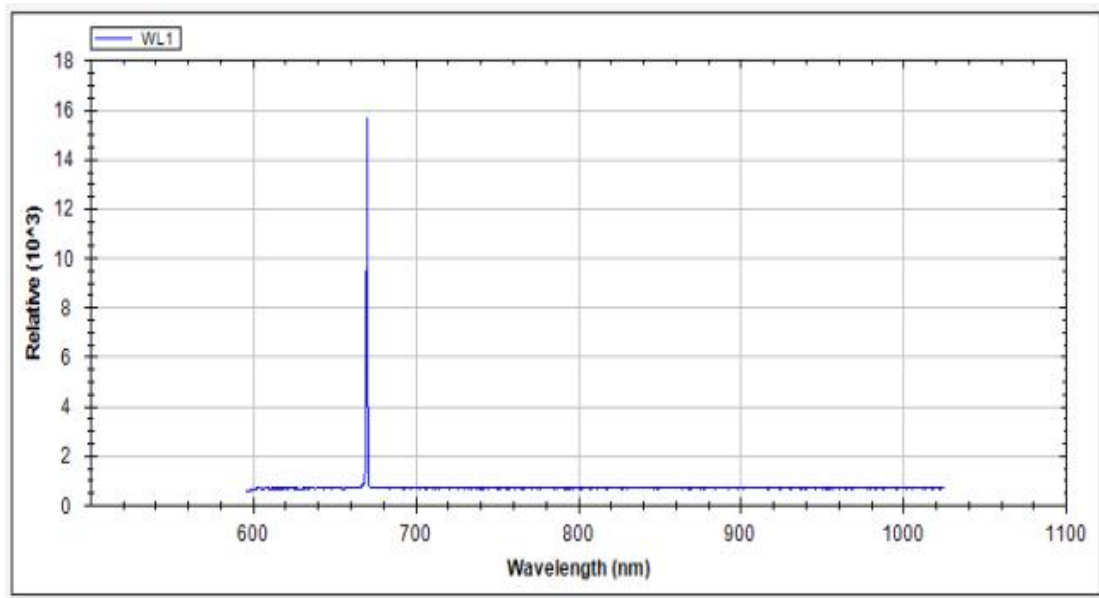
- VCSEL (Vertical-Cavity Surface-Emitting Laser)
- High efficiency and reliability
- Stable central wavelength, narrow line width
- Doughnut shaped, symmetrical far field
- Surface mountable

Applications

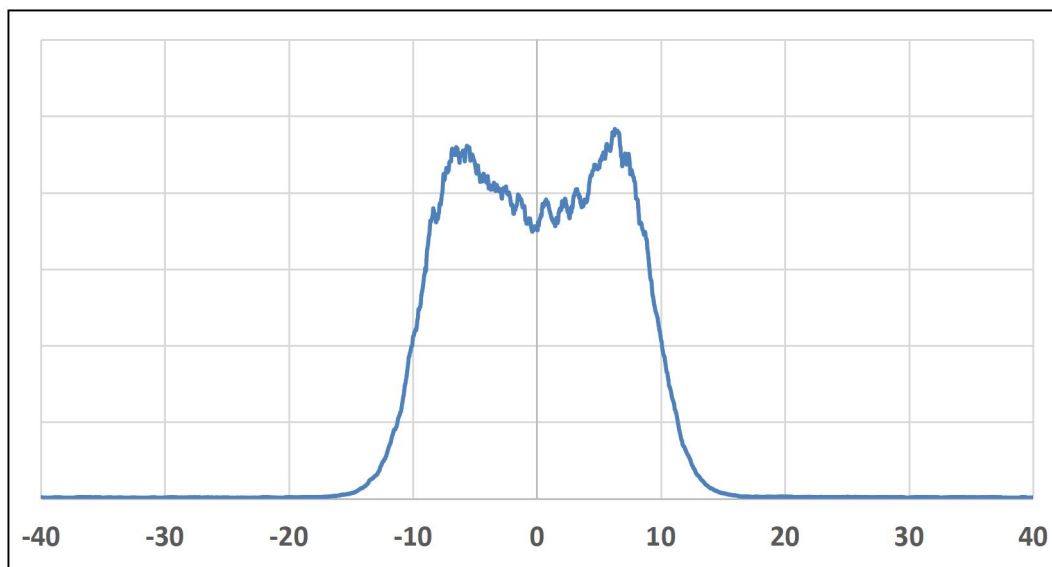
- Sensor light source
- Consumer electronic products
- Machine vision
- Red lighting



Spectroscopy



FFDA (Far-Field Divergence Angle) ($\sim 22^\circ$ at 10 mA)

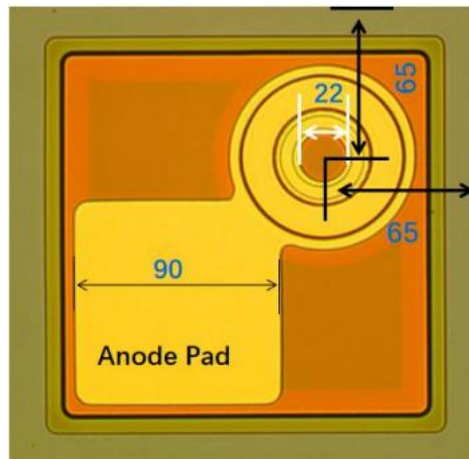


Electrical Optical Characteristics

Parameter	Symbol	Unit	Min.	Typ.	Max	Note
Threshold Current	I _{th}	mA		2.7		
Forward Voltage	V _F	V		2.5		IF = 10mA
Output Power	P _{op}	mW	3.0	4.0		IF = 10mA
Slop Efficiency	SE	W/A	0.4	0.55		
Power Conversion Efficiency	PCE	%		16		IF = 10mA
Wavelength	λ _{op}	nm	668	670		
Divergence Angle(1/e ²)		deg		22		IF = 10mA

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

Mechanical Specifications



参数 Parameter	规格 Specification
芯片尺寸 (x / y) Die size (x / y)	200 μm X 200 μm
芯片厚度 Die Thickness	130 μm
焊盘宽度 Bond Pad Width	90 μm X 90 μm

