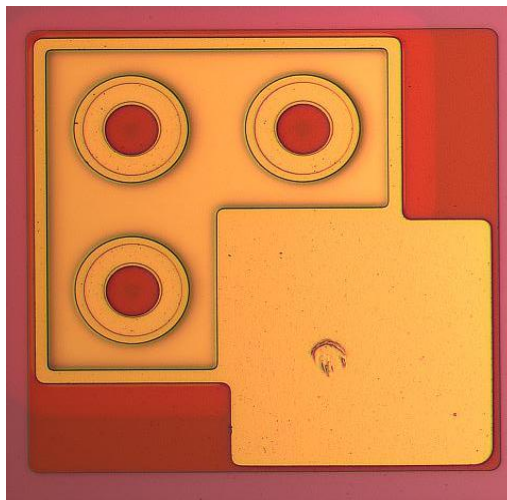


660nm 5mW VCSEL Laser Chip

Part No.: D-V0660M-0005-0008

Suitable for pulse power applications and the power is 5mW

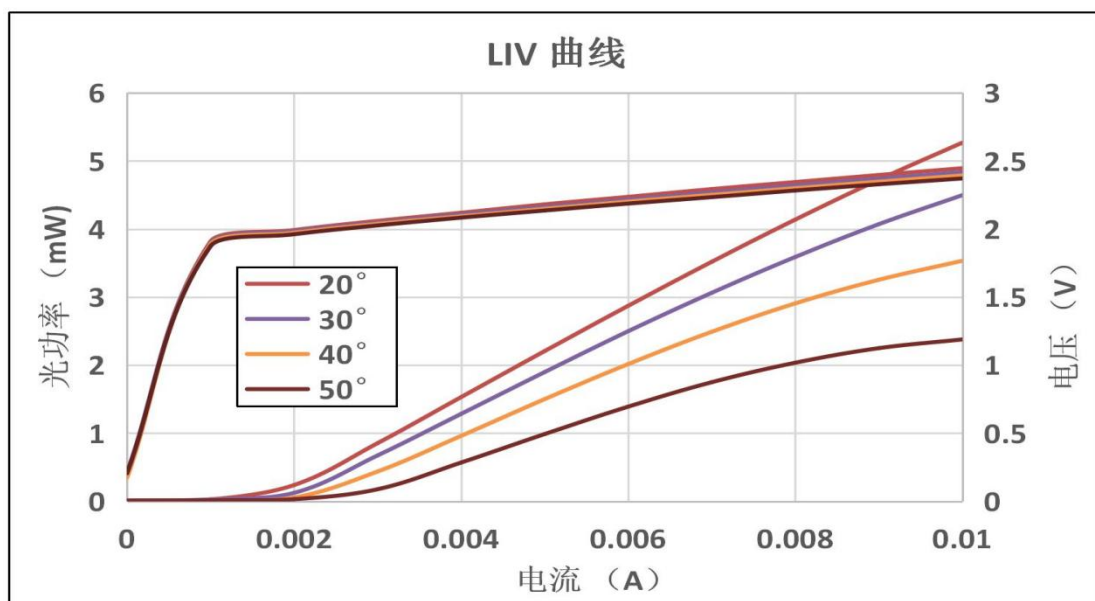


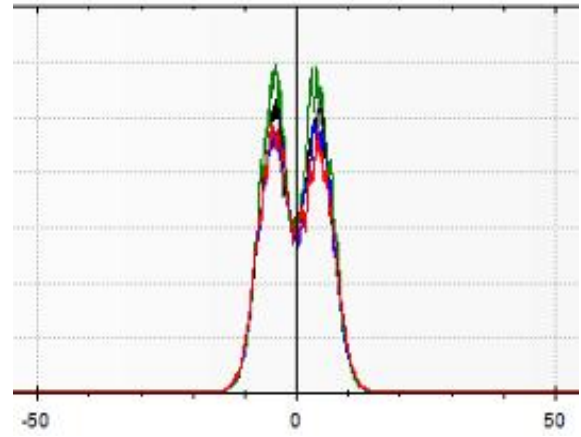
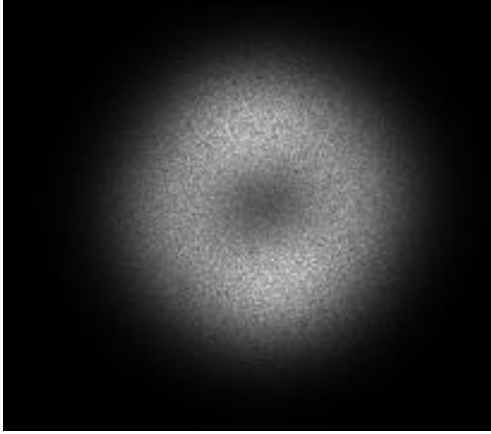
Features

- 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



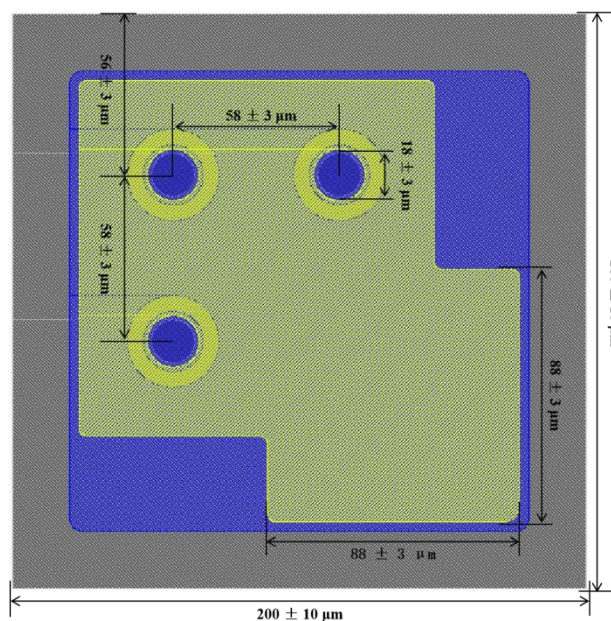
FFDA (Far-Field Divergence Angle) ($\sim 19^\circ$ at 10 mA)

Electrical Optical Characteristics

Parameter	Symbol	Unit	Min.	Typ.	Max	Note
Threshold Current	I _{th}	mA		4.0		
Forward Voltage	V _F	V		2.6		IF = 10mA
Output Power	P _{op}	mW	4	5		IF = 10mA
Slop Efficiency	SE	W/A	0.45	0.65		
Power Conversion Efficiency	PCE	%		16		IF = 10mA
Wavelength	λ _{op}	nm	650	660	670	
Divergence Angle(1/e ²)		deg		19		IF = 10mA

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

Mechanical Specifications



μm

Parameter	Specification
Die size	200±10 μm X 200±10 μm
Die Thickness	125±5 μm
Number of Emitters	3
Bond Pad Size (Anode Pad)	88±3 μm X 88±3 μm
Back Electrode Size (Cathode Pad)	200±10 μm X 200±10 μm

