

High Power Single-Mode 850nm VCSEL TO-CAN

- High power single-mode of > 4.0 mW
- Chips are made by proprietary process, which guarantee a high ESD value of > 1 kV and long lifetime operation > 10⁶ h @ 50°C
- Hermetic sealed TO-46 package with flat glass window

ALVL-102



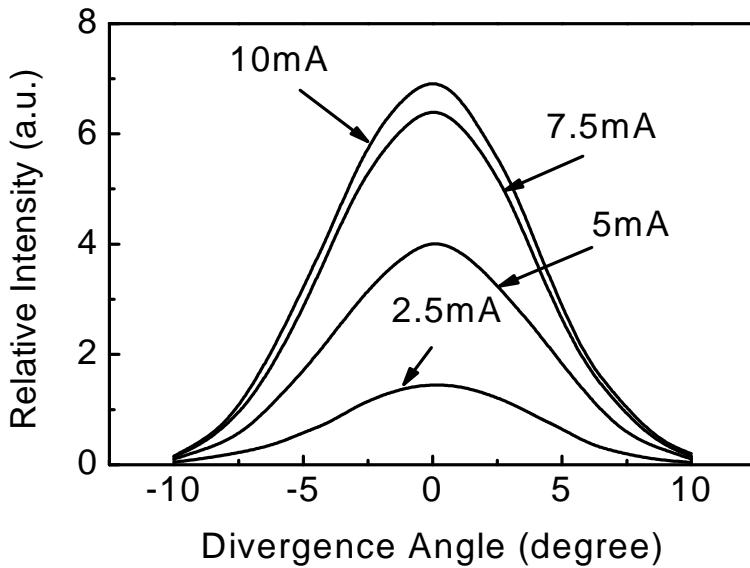
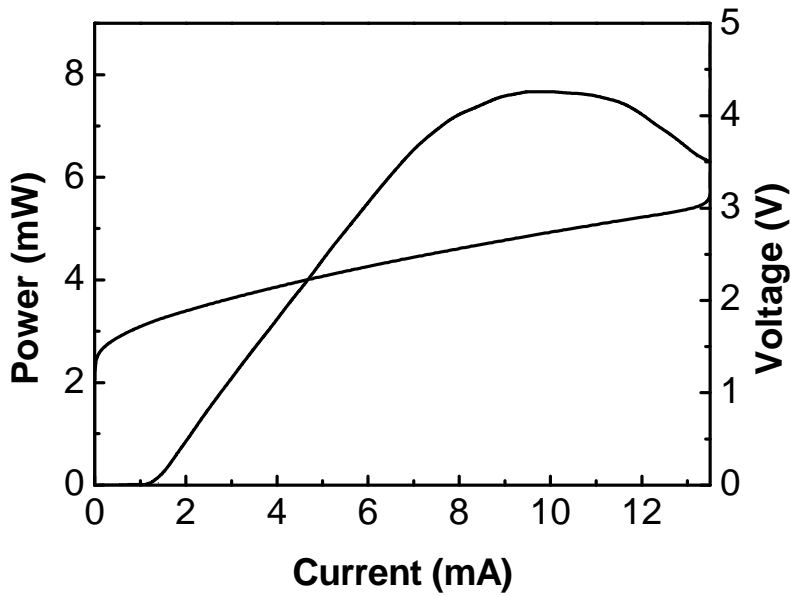
Absolute Maximum Ratings:

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Optical Power	P _o	4.0			mW	CW
Storage Temperature		-40		85	°C	
Operating Temperature		-0		70	°C	
Reverse Voltage	V _R	5			V	

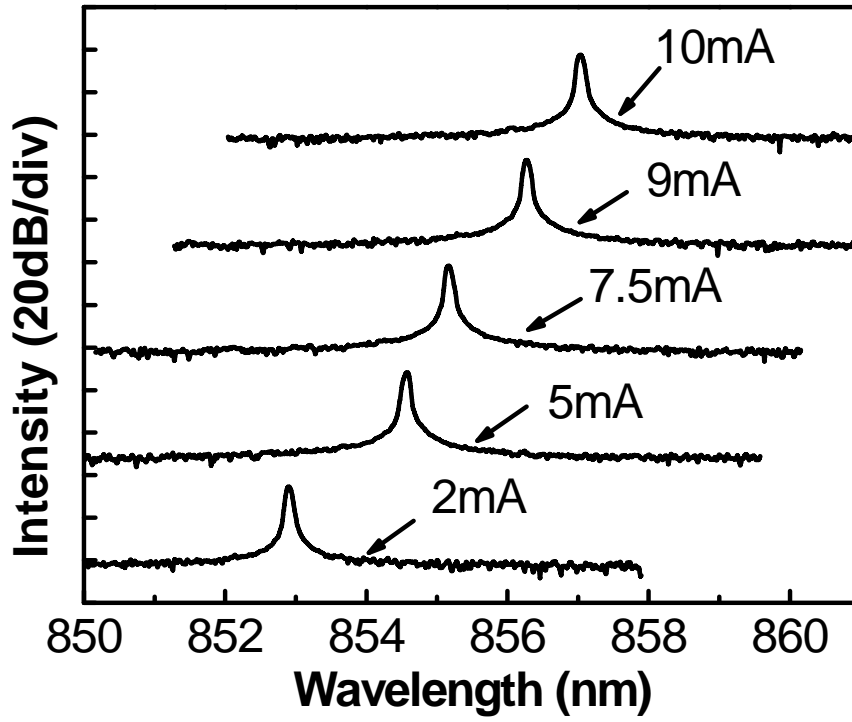
Optical / Electrical Characteristics (T=25°C):

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Optical Output Power	P _o	4.0			mW	I _F =10mA
Forward Voltage	V _F			3.0	V	I _F =10mA
Threshold Current	I _{th}		4	6	mA	
Operating Current	I _{op}	2		10	mA	P _o = 0.5 mW
Operating Voltage	V _{op}			2.5	V	P _o =0.5 mW
Center Wavelength	λ _c	840	850	860	nm	
Side Mode Suppression Ratio	SMSR	20			dB	
Beam Divergence	θ _{FWHM}		8		deg	I _F =10mA
Slope Efficiency	η	0.1			mW/mA	0.5~1.5mW
Series Resistance	R _s			150	Ω	
ESD Threshold	ESD	1 k			V	Human body mode

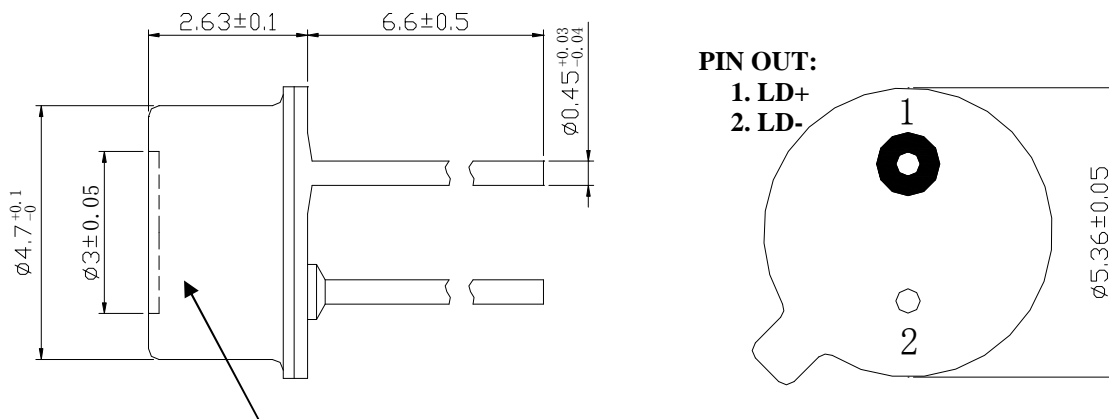
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Outline dimensions & pin assignment:



Flat glass window