

850nm Single Mode VCSEL TO-CAN

YPT-8502

Features

- 850nm wavelength VCSEL
- TO-46 Package
- Without glass window
- Cost effective



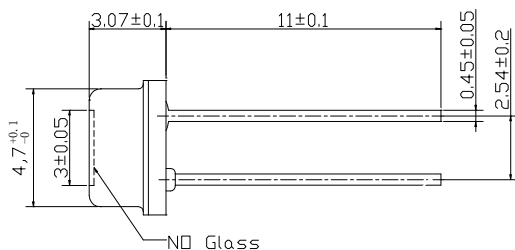
Absolute Maximum Ratings:

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Optical Power	P _O	3.0			mW	CW
Storage Temperature		-40		85	°C	
Operating Temperature		0		70	°C	
Operating Current				15	mA	
Reverse Voltage	V _R	5			V	

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

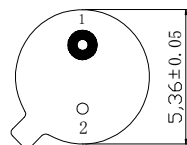
Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Optical Output Power	P _O	3.0			mW	I _F =12mA
Forward Voltage	V _F			2.2	V	I _F =12mA
Threshold Current	I _{th}		4	6	mA	
Operating Current	I _{op}	2		11	mA	P _o =1mW
Operating Voltage	V _{op}			2.5	V	P _o =1mW
Center Wavelength	λ _c	835	850	870	nm	
Beam Divergence	θ _{FWHM}		8		deg	I _F =10mA
Slope Efficiency	η	0.1			mW/mA	0.5~1.5mW
Series Resistance	R _s			150	Ω	
Rise/Fall time	T _R /T _F			500	ps	

Outline dimensions & pin assignment:



PIN OUT:

1. LD+
2. LD-



BIN:

I_{op} @ 1mW (mA)

- 2.0 ~ < 3.0
- 3.0 ~ < 4.0
- 4.0 ~ < 5.0
- 5.0 ~ < 6.0
- 6.0 ~ < 7.0
- 7.0 ~ < 8.0
- 8.0 ~ < 9.0
- 9.0 ~ < 10.0
- 10.0 ~ 11.0



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Version : B