2.5G 850nm VCSEL LD TO-CAN Series

Features：

- Data rates up to 2.5 Gb/s
- 850nm multimode emission
- Low threshold and operation current

Applications：

- Digital Optical Communication

Specifications：

Absolute Maximum Ratings:

Parameter	Symbol	Min.	Max.	Unit
Reverse Voltage	V_R	—	5	V
Forward Current	I_F	—	12	mA
Optical Output Power	Pout	—	2.2	mW
MPD reverse voltaget	Vr	20	—	V
MPD forward curren	Vf	—	10	mA
Operating Temperature	Top	-5	+70	℃
Storage Temperature	Tstg	-40	+85	℃
Lead Solder Temperature	—	—	260	℃
Lead Solder Time	—	—	10	s

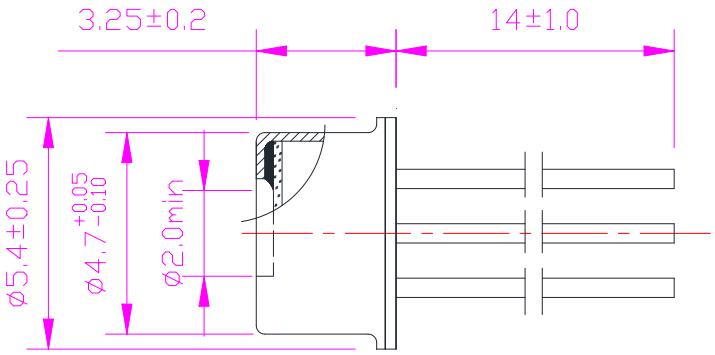
Characteristics：（Ta=25℃ unless otherwise noted）

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Threshold Current	Ith	T=25℃	0.5	1.0	1.4	mA
Optical Output Power	Pout	Iop = 6.0mA	0.8	1.2	—	mW
Emission Wavelength	λ	Iop = 6.0mA	830	850	860	nm
Spectral Bandwidth, RMS	Δλ	Iop = 6.0mA	—	—	0.65	nm
Slope Efficiency	η	Iop = 6.0mA	0.17	0.23	—	W/A
Differential resistance	R_d	Iop = 6.0mA	—	50	—	Ω
3dBmodulation bandwidth	V_{3dB}	Iop = 6.0mA	3	—	—	GHz
Rise Time	tr	Iop = 6.0mA, 20-80%	—	70	80	ps
Fall Time	tf		—	70	80	ps

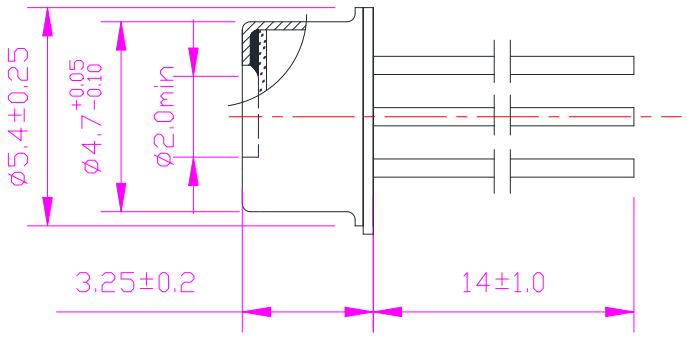
Monitor Current(MPD)	Im	Iop = 6.0mA,V_R=3V	150	—	—	μA
Dark Current(MPD)	Id	Poc=0mW, V_R=3V	—	—	20	nA

Mechanical Dimension and Pin Assignment:

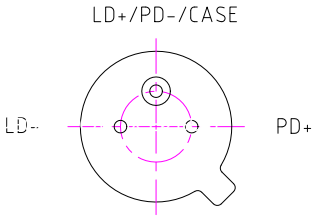
LD 850nm VCSEL 2.5G-TO46-4pin-FW:



LD 850nm VCSEL 2.5G-TO46-3pin-FW:



Type F



BOTTOM VIEW

Order Information:

LD 850nm VCSEL – – – –

Statement:

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