

760nm SM VCSEL TO-CAN datasheet

P/N : WVOP-1T

Applications

Gas sensing

Features

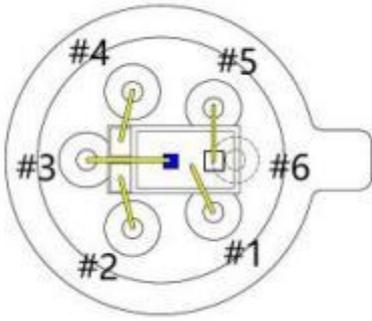
Circular beam spot and low divergence angle ;
Single-transverse-mode and linear polarization ;
Narrow linewidth (spectral width).



Specification

ELECTRO-OPTICAL CHARACTERISTICS				
PARAMETER	MIN	TYP	MAX	TEST CONITIONS
Emission Wavelength (nm)	758	760	762	1mA@ 25°C
Chip Temperature (°C)	20		60	adjusted by TEC
Threshold Current (mA)	0.4	0.6	0.8	
Threshold Voltage (V)		1.7		
Output Power (mW)		0.3		1mA @25°C
Operating Voltage (V)		2.1		
Differential Series Resistance (Ω)		180		
Wavelength Tuning Over Current (nm/mA)	0.5	0.7	0.9	
Wavelength Tuning Over Temperature (nm/°C)		0.05	0.06	
Side Mode Suppression (dB)	20	25	30	
Polarization Extinction Ratio (dB)		15		
Beam Divergence (°)		10		1/e2
Spectral Bandwidth (MHz)		100		
TEC Current (mA)		1100		@Maximum Temperature Difference
TEC Maximum Temperature Difference (°C)		70		
Maximum Cooling Capacity of TEC (W)		0.4		
NTC Thermistor Resistance (kΩ)		10		
Beta Value of Thermistor(K-1)		3930		
THERMAL PARAMETERS				
Operating Temperature Range (°C)	-10		55	
Storage Temperature Range (°C)	-40		125	

Package Type: TO46



1	激光器负极&热敏电阻
2	TEC负极
3	激光器正极
4	TEC正极
5	热敏电阻

Dimension

