

760nm Single Mode VCSEL

(Part Number: VCSEL-760-SM-TO)

Applications:

1. Gas sensing.

Features:

1. Circular beam spot and low divergence angle;
2. Single-transverse-mode and linear polarization;
3. 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/e ²
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	
Package Type	TO46

Dimension:

