

852nm Single Mode VCSEL Bare Chips

(Part Number: VCSEL-852-0.1mW-SM-BC-G3)

Applications:

1. Cs Atomic Clock.

Features:

1. Designed for Cs D2 line;
2. Circular beam spot and low divergence angle;
3. Single-transverse-mode and linear polarization;
4. Stable single mode power (0.1mW) ;
5. Operating temperature $70 \pm 5^{\circ}\text{C}$.

Specification:

ELECTRO-OPTICAL CHARACTERISTICS				
PARAMETER	MIN	TYP	MAX	TEST CONITIONS
Emission Wavelength (nm)		852		Vacuum
Operating Temperature (°C)	65	70	75	
Threshold Current (mA)	0.4	0.6	0.8	
Output Power (mW)		0.1		@1.5mA
Wavelength Tuning Over Temperature (nm/°C)	0.05	0.06	0.07	
Side Mode Suppression (dB)		25	35	
Polarization Extinction Ratio (dB)		12		
Beam Divergence (°)		10		1/e ²
Spectral Bandwidth (MHz)		100		
Thermal Parameters				
Storage Temperature Range (°C)	25		125	
Package				
Package Type	Bare Chip			

Pictures:

