

## 850nm High Single Mode Power VCSEL in TO Can

(Part Number: VCSEL-850-1mW-SM-TO)

### Applications:

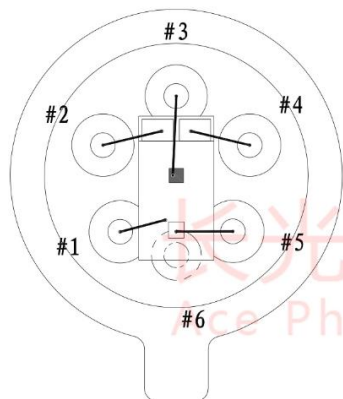
1. Optical interconnections;
2. Sensing.

### Features:

1. 850nm single mode emission;
2. High single-transverse-mode power ( $\geq 1\text{mW}$ ) under room temperature;
3. Circular beam spot and low divergence angle;
4. Narrow linewidth (spectral width);
5. Data rates from DC to 25Gb/s.

**Specification:**

<b>ELECTRO-OPTICAL CHARACTERISTICS</b>				
<b>PARAMETER</b>	<b>MIN</b>	<b>TYP</b>	<b>MAX</b>	<b>TEST CONITIONS</b>
Emission Wavelength (nm)	845	850	855	3mA
Chip Temperature (°C)		25		adjusted by TEC
Threshold Current (mA)		0.5	0.7	
Output Power (mW)		1	1.5	3mA
Differential Series Resistance (Ω)		200		
Operating Voltage (V)		2.5		
Side Mode Suppression (dB)		25	30	@3mA
Beam Divergence (° )	10		25	1/e <sup>2</sup>
Spectral Bandwidth (MHz)		100		Unmodulated
Small Signal Bandwidth		20GHz		
<b>Thermal Parameters</b>				
Operating Temperature Range (°C)	-10		55	
Storage Temperature Range (°C)	-40		125	
<b>Package</b>				
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

