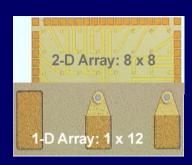


First Demonstration of 2.3 µm InP BTJ-VCSEL











VCSEL diodes for near-IR Gas Analysis

- Wide tunability and precision for ppm or ppb sensitivity
- Low power dissipation enables cost effective handheld applications

- Applications for Industrial and Safety, Medical, Environmental and Agriculture, Automotive
 H2O, H2S, HCl, CO, CO2, NH3,
- CH4, Hydrocarbons and many more

More information: www.vertilas.com







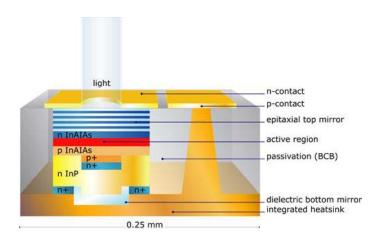


VERTILAS' Unique Technology Offers Major Advantages

VERTILAS' Advantages – VCSELs from 1.3μm to > 2μm

Cost effective

Very low power dissipation



Very high performance

Very high integration

BTJ – Buried Tunnel Junction – made by VERTILAS

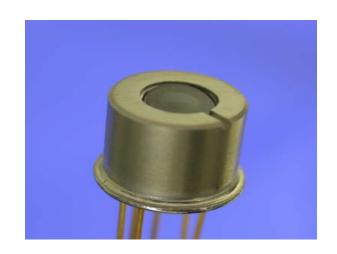






2.3 µm InP VCSEL in TO-5 with integrated TEC and Thermistor













Measurement with 2.3 µm InP laser

