

# AFCD-V51KC1

## 25 Gb/s Oxide VCSEL

### Key Features

- 850 nm wavelength range
- Data rates from DC to 25 Gb/s
- Compliant with Gb Ethernet
- High-power output
- Suitable for use in non-hermetic environments

### Overview

The Broadcom® AFCD-V51KC1 is a 25 Gb/s, 150 µm thick, 850 nm wavelength, GaAs-based oxide Vertical Cavity Surface Emitting Laser (VCSEL) designed to be used in 25GbE optical links over multi-mode fiber. The VCSEL is engineered for superior dynamic performance and optical power over temperature. The VCSEL has both anode contacts and common cathode contacts on the top side of the chip for convenient wire bonding. High-speed operation is achieved at low currents, making VCSEL arrays particularly well suited for applications that require minimal power consumption and heat dissipation.

Each VCSEL produces a circularly symmetric, narrow beam which, with appropriate lenses, enables optical power to be efficiently coupled into 50 µm/125 µm and 62.5 µm/125 µm multi-mode fiber.

Broadcom VCSELs are extensively tested to insure performance, wear-out lifetime, and wet-humid (85% RH/85°C) operating life in non-hermetic environments.

VCSEL arrays are shipped on medium-tack, blue tape, 6-inch rings.

### Ordering Information

Product Code	Description
AFCD-V51KC1	25 Gb/s Oxide VCSEL