

AFCD-V54JZ

25 Gb/s 1×4 Array Oxide VCSEL

Key Features

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

Overview

The Broadcom[®] AFCD-V54JZ is a 25 Gb/s, 1×4 array, 150 μm thick, 850 nm wavelength, GaAs-based oxide Vertical Cavity Surface Emitting Laser (VCSEL) designed for high-speed optical data communication applications. The VCSEL is engineered for superior dynamic performance and optical power over temperature. VCSEL arrays have 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 VCSEL arrays 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-V54JZ	25 Gb/s, 1×4 Array Oxide VCSEL