

10Gbps 850nm VCSEL for Active Optical Cable

P/N: DO188 VCSEL



PRELIMINARY DATASHEET

Introduction



GCS high speed 850nm multimode Vertical Cavity Surface Emitting Laser (VCSEL) chips are primary designed to meet performance for 10Gbps data communications with specially tailored in consumer-based active optical cable (AOC) and optical USB (OUSB) applications. This high performance device has high reliability and is engineered with low electrical parasitics for data rates up to 10Gb/s. The VCSEL has a circular low divergence beam that can be efficiently coupled into a 50/125 or 62.5/125µm multimode fiber. The device can also layout into a linear 1x4, 1x8, or 1x12 array in common cathode configuration with 250µm pitch between each channel for up to 100Gbps applications.

Key Features

- 850nm multimode emission
- Low threshold and operation current
- Excellent reliability
- Data rates up to 10 Gb/s for singlet chip
- Optimized for -5C to 70C operation
- High reliability with GCS robust 4" wafer manufacturing with fast cycle-time
- Deliverable in GCS Known Good Die™ with 100% testing and inspection
- Customized 1x4 array or other arrays layout available
- RoHS compliant

Sample Request Contacts

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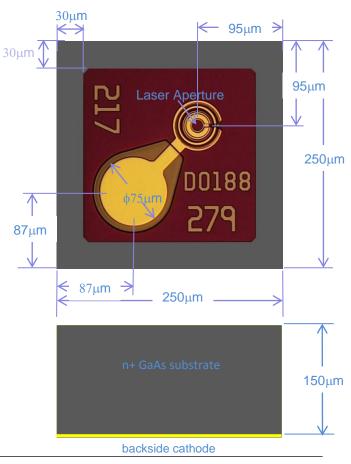
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Applications

- 10Gbps data communication
- Active Optical Cable
- Optical USB
- HDMI

Dimensions



About GCS: GCS has a long history manufacturing and shipping both GaAs and InGaAs based photo diodes since 2000. Our state of art manufacturing facility is located in Torrance, California, and has about 10,000 square feet of fab space with a capability of about 1200 4-inch wafers per month and expandable to 2000 wafers per month. GCS as a world-class semiconductor device manufacturer has been delivering a total of over 30 million photo diodes with various date rates and applications used for optical communications, which have been deployed in field by top tier optical transceiver companies worldwide.