

25Gbps 1310nm /1550nm InGaAs PIN PD

P/N: DO190 20um XX*



PRELIMINARY DATASHEET



Introduction

This high performance product is an extra high-speed InGaAs PIN photodiode chip that features a 20µm top-side illuminated detection window and very low capacitance with a bandwidth capable up to 28GHz. This product has an excellent responsivity, low dark current and excellent reliability. It is intended primary to be integrated with a pre-amplifier in a hermetic package, for 25Gbps optical receivers operating at 1310nm or 1550nm with 9/125µm single mode fiber.

Key Features

- Mesa structure with GCS proprietary epi design and process technologies
- 20µm optical detection window
- Extra-high bandwidth up to 28GHz
- Top-sided 50Ω coplanar GSG contact pads with SI substrate
- Excellent low dark current and capacitance
- -40C to 85C operation range
- Low cost 4" wafer manufacturing with fast cycle-time
- Deliverable in GCS Known Good Die™ with 100% testing and inspection
- Customized layout dimensions available
- RoHS compliant

Sample Request Contacts

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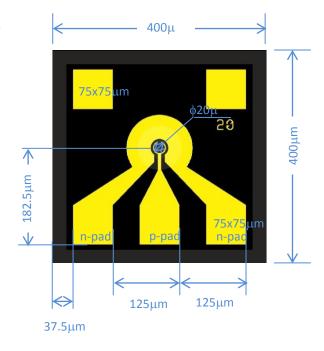
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Applications

- 25Gbps optical receiver
- 100Gbps Ethernet over multiple 25Gbps lanes
- 28Gbps Fiber Channel

Dimensions





* Interim part number