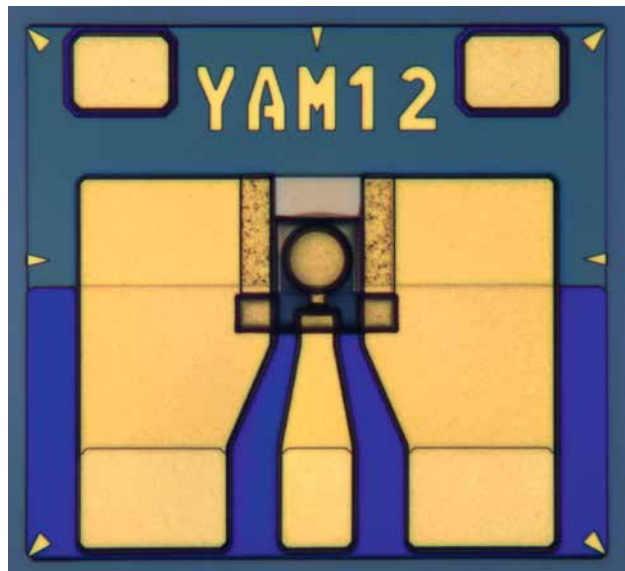


56 GBaud AND 32 GBaud SURFACE ILLUMINATED PHOTODIODES

AT A GLANCE

- surface illuminated InGaAs photodiodes for telecom and sensing applications



Features

- up to 56 Gb/s
- back side or top side illumination
- single diode or array configuration
- lens integration for back side illuminated photodiode (optional)
- integrated bias-T (optional)
- flip chip or wire bonding

Applications

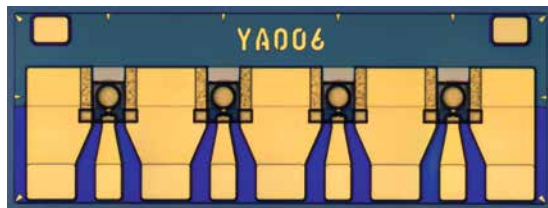
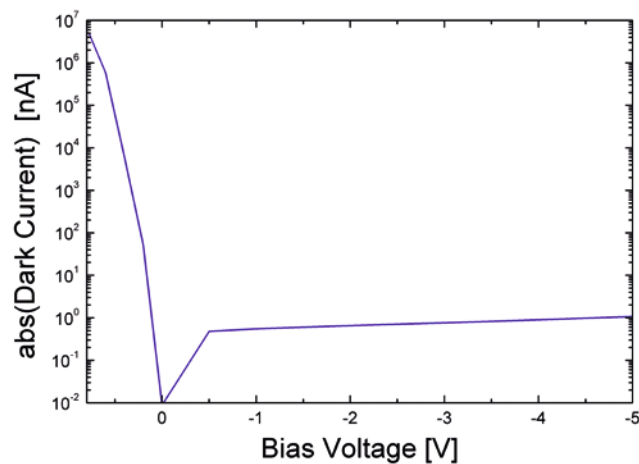
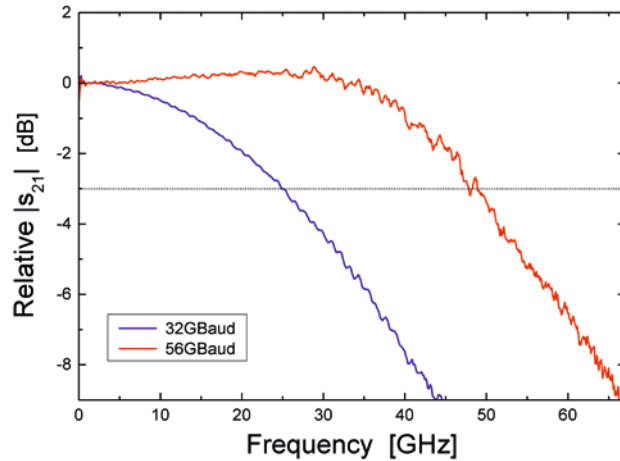
- datacommunication
- telecommunication
- sensing

Technical Specifications

- wavelength: 1060 nm - 1700 nm
- responsivity:
32 Gb/s: 0.8 A/W @ 1550 nm
56 Gb/s: 0.7 A/W @ 1310 nm
- 3 dB-bandwidth: up to 45 GHz
- low dark current: < 10 nA
- optical aperture: 18 μ m

Customisation

- back side or top side illumination
- single diode or array configuration
- integrated bias-T (optional)
- lens integration for back side illuminated photodiode (optional)
- flip chip or wire bonding
- customised responsivity-bandwidth trade-off possible
- customised pitches and pad configurations possible



The Fraunhofer HHI

The Fraunhofer Heinrich Hertz Institute conducts research in the areas of video compression and processing, 3D systems, wireless communication as well as photonic components and networks.

Contact

Dr.-Ing. Patrick Runge
Photonic Components
Fraunhofer Heinrich Hertz Institute
Einsteinufer 37 | 10587 Berlin | Germany
Phone +49 30 31002-498
patrick.runge@hhi.fraunhofer.de