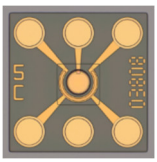
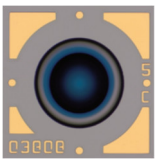
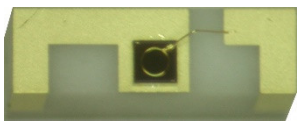
LIDAR Solutions

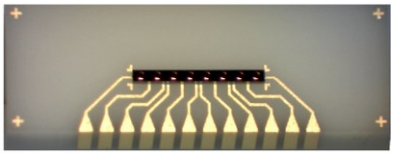
Linear Mode APD

- Long wavelength, eye safe LIDAR
- Pulsed time-of-flight (TOF) systems
- Backside integrated lens with large diameter of 100 µm increasing fill factor and coupling efficiency
- Operating from 990 nm up to 1650 nm
- Light entry with integrated sunlight suppression
- Flexible pad configuration allowing wire bonding and flip-chip soldering
- Available as bare die or flip-chip mounted on ceramic carrier

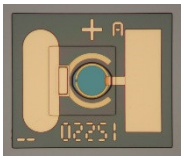
Large Area Monitor Photodiode and APD

- Optimized for monitoring applications
- Large active area of 300 µm diameter for pin PD and 180 µm for APD
- Also available on ceramic wrap-around carrier



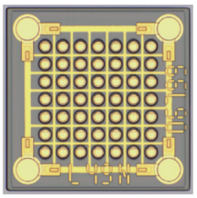
Balanced Photodiode Array on Carrier

- 4 pairs of balanced photodiodes mounted onto a ceramic carrier with wrap-around metallization
- Scalable multi-channel photodiode array
- Channel pitch of 250 µm
- Frequency modulated continuous wave (FMCW) LIDAR
- Instrumentation



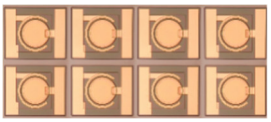
2.5G Topside Illuminated APD

- Laser rangefinder
- Eye-safe scanning LIDAR
- Low noise multiplication
- High multiplied responsivity
- Easy optical coupling into topside 60 µm optical aperture
- Operating from 980 nm up to 1650 nm



Small Pitch APD Array

- 2-dimensional multi-channel APD array
- Ultra narrow channel pitch: 30 µm
- LIDAR and Imaging applications
- Customized multi-channel array layouts
- Customizable narrow band optical filters for sunlight suppression



Multi-Element Backside Illuminated 2-Dimensional Photodiode Array

- Scalable multi-channel photodiode array
- Channel pitch of 300 µm in x- and 250 µm in y-direction
- LIDAR and Sensing applications
- Easy coupling into large backside aperture
- Customized submount layouts

PRODUCT OVERVIEW