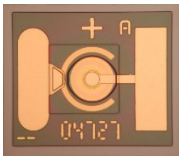
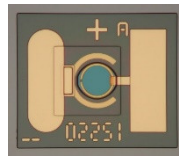


APD Solutions



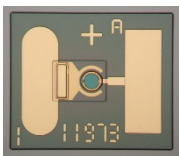
2.5G backside illuminated APD

- Laser rangefinder
- Eye-safe scanning LIDAR
- Low noise multiplication
- High multiplied responsivity
- Integrated sunlight spectrum suppression
- Narrow bandpass optical filter available on request



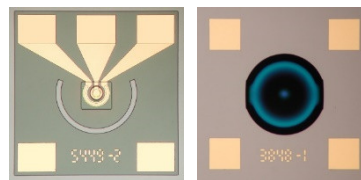
5G APD

- Enabling receiver sensitivities of -35 dBm
- 5G GPON
- High gain-bandwidth product of 50 GHz
- Low operating bias of 27 V
- Large pads optimized for wire bonding



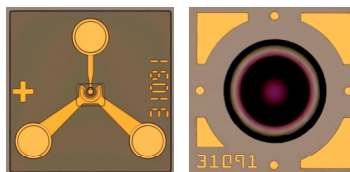
10G APD

- Enabling receiver sensitivities of -29 dBm
- 10G PON
- High gain-bandwidth product of 90 GHz
- Low operating bias of 29 V
- Also available as 4x10G APD array with channel pitch of 250 μm



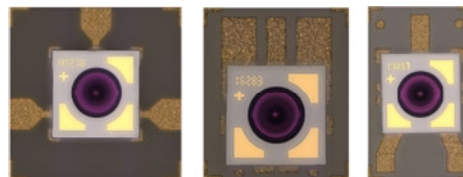
10G APD with backside lens

- Easy optical coupling through integrated backside lens
- 10G PON
- Layout suitable for wire bonding and flip-chip soldering
- Available as chip or flip-chip mounted on carrier



28G APD with backside lens

- Easy optical coupling through integrated backside lens
- Enabling high sensitivity 28G receivers
- 28 Gbaud PAM-4
- 25G EPON
- Layout suitable for wire bonding and flip-chip soldering
- Available as chip or flip-chip mounted on carrier



28G APD on Carrier

- Easy optical coupling through integrated backside lens
- Enabling high sensitivity 28G receivers
- 100GBASE-ER4
- Low operating bias of 20 V
- Flip-chip soldered on ceramic submount
- Customized submount layouts

PRODUCT OVERVIEW