

# Customized Photo Diodes

## APPLICATION

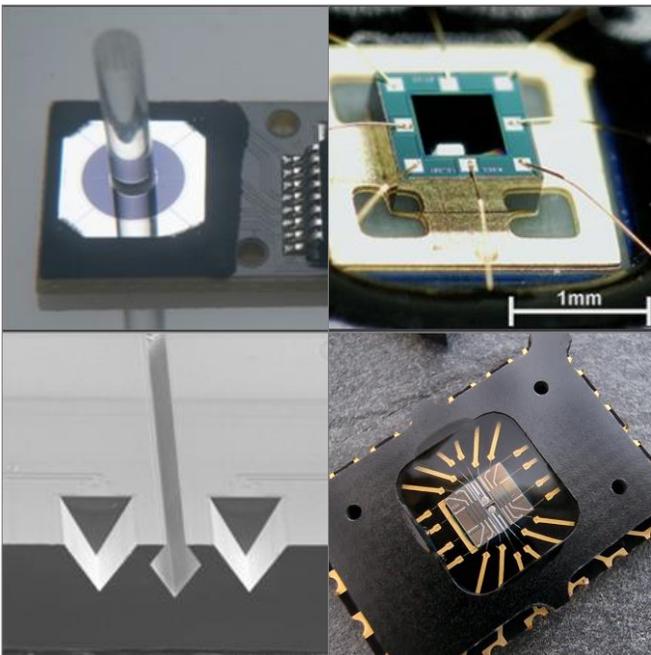
Photo diodes and -arrays allow numerous sensing applications in almost any field:

- Medical & life science (vital parameters, diagnostics, laboratory systems, micro fluidics, ...)
- Industrial & safety (particles, color, speed, optical density, fluorescence, optical encoders, ...)
- Consumer devices (vital parameters, consumer electronics, ...)
- Automotive & Telecom (fiber communication, LIDAR, speed, ...)

## FULL FREEDOM IN (3D) DESIGN

With an in-house silicon wafer manufacturing, the CiS Research Institute offers full freedom in photo diodes design - even in 3D.

PARAMETER	VALUE / RANGE
Active Chip size	~10 $\mu\text{m}^2$ ... 100 $\text{cm}^2$
Chip Thickness	200 ... 900 $\mu\text{m}$
Spectral Response	200 ... 1100 nm
Dynamics	DC to GHz
Shape of Chip Edges	Any
Segments	1 ... x1000
Specialities	<ul style="list-style-type: none"> <li>• In plane and through silicon fibre coupling</li> <li>• Tilted active areas</li> <li>• Through silicon vias</li> <li>• Hermetic sealing</li> <li>• Any housing or substrate</li> </ul>



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