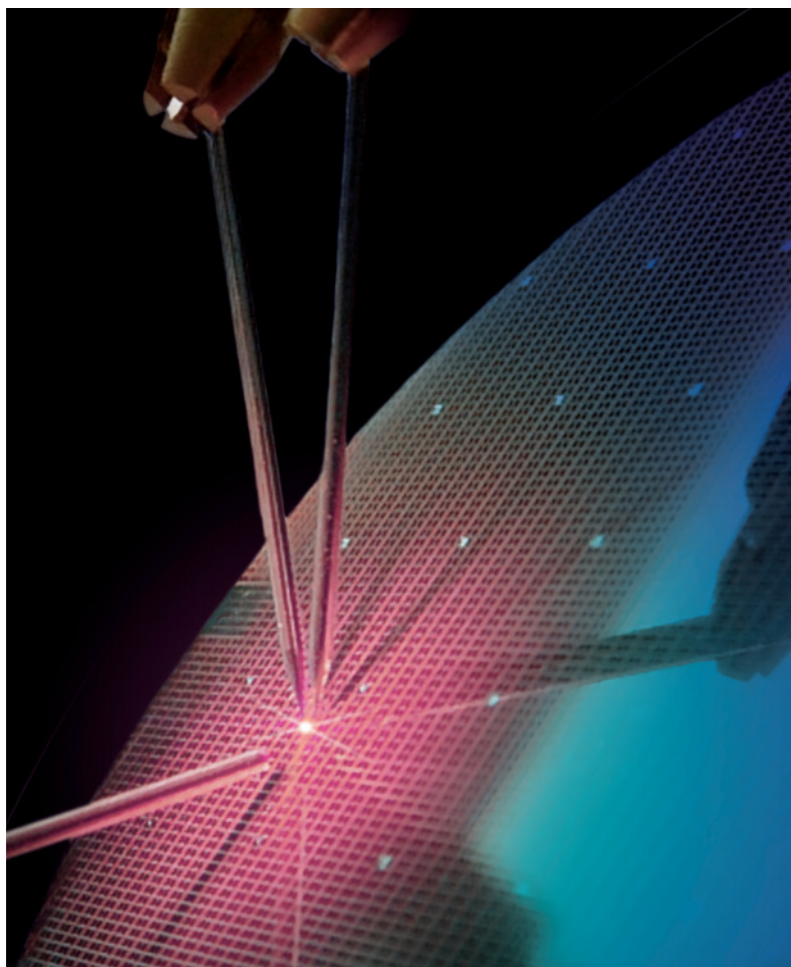




## Optoelectronic Components – LEDs and Photodiodes

Our core competencies are the development and manufacturing of customer-specific semiconductor chips for LEDs and photodiode applications. Our motivated team uses modern and flexible chip manufacturing technologies in our clean room class 10,000/100 facility. Our technical equipment covers all processing steps necessary for chip development and production from ohmic contacting to dicing and from 100 % chip testing to classifying and sorting. Liquid Phase Epitaxy is the basis for producing our spectral selective photodiodes.

EPIGAP Optoelektronik GmbH specializes in manufacturing small and medium production series (up to several million pcs.) with a production capacity of about 50 Mio. standard chips per year. Since 2005 we also offer the development and series production of complex, customer-specific optical modules and sensors.



# We design your success in optoelectronics



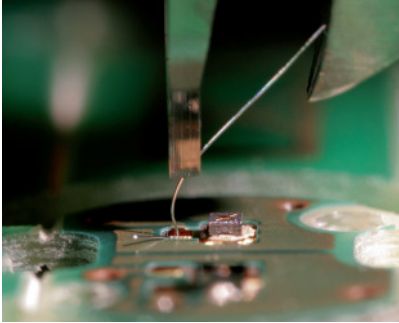
As a system supplier, we produce customized chips and LEDs

- standard chips from 360nm up to 1750nm
- customized layouts
- monolithic display chips
- point source chips for visible and infrared
- sorting in accordance with special wavelength or output power requirements
- various housings (3mm, 5mm, SMDs, TO-packages) to meet customer's needs



Photodiodes

- UV-photodiodes from UVA to UVC and wide-band
- spectral selective photodiodes based on A<sup>3</sup>B<sup>5</sup>-semiconductors with high sensitivity from visible to NIR range
- InGaAs-photodiodes in standard visible enhanced version
- low dark currents
- high linearity of photocurrent
- high temperature stability and low degradation of sensitivity



Custom designed modules

- development of integrated solutions from chip design through optical lens design
- chip on board technology
- RGB-Modules
- Jumbo-LEDs from visible to infrared
- thermal management with excellent heat sinking
- packaging of imaging and CMOS sensors
- clean room class 100 facility



Optosensors and measuring devices

- for UV measurement and monitoring applications
- for maintenance and calibration purposes of UV curing facilities
- measuring heads and control units for water disinfection facilities
- sensors for flame detection
- sensors for medical devices such as for light therapy
- UV illumination devices for biomedical applications



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