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1 *Ultraviolet light is often used to cure paint and adhesives, for example in dental restoration.*

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2 *UV detector chips in TO18 package.*

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## DETECTORS FOR ULTRAVIOLET LIGHT

In the industrial use of ultraviolet light (UV), e. g. in the curing of paint and adhesives or in water treatment applications, continuous monitoring of the light intensity is useful or even mandatory. New, long-term stable detectors on the basis of aluminum gallium nitride (AlGaN) have advantages over traditionally used solutions: among others, they show no degradation under irradiation with high UV intensities.

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### Features

- Insensitivity to visible light (»visible blind«)
- Direct integration of filters into the detector chip: active region adjustable, e.g. in the UV-A 320–370 nm, UV-B 280–320 nm, UV-C 240–280 nm
- Very low dark current and high quantum efficiency (> 50 %)

### Applications

- Curing of adhesives, paint and sealing compounds
- Disinfection of air and water
- Environmental and exhaust gas analysis
- UV cameras for monitoring plasma processes or as components in visual inspection or sorting systems