

TiO₂ UV-Photodiodes with improved properties

Press Release, June 24, 2010.



Recent Research Project

Two years R&D project

sglux successfully finished a two years R&D project done in cooperation with the University of Applied Sciences Wildau.



Goals

- increase of the rise-time
- increase of the visible blindness
- suitability for wire-bonding
- increase of the long term stability

The Results

Parameter	Value before Project	Value after Project	Unit
Risetime at 50 μ W/cm ²	20	1,75	ms
Visible Blindness	100	600	-
Wire Bonding	not possible	now possible	-
Radiation Hardness	<500	>1.600	kJ/cm ²

Benefits of TiO₂ UV-Photodiodes



TiO₂ based UV-Photodiodes are produced using the Sol-Gel chemistry. The main benefit of these devices is a large active area making the photodiode an interesting candidate for low radiation or cost sensitive measurements. Our product catalogue lists TiO₂ photodiodes with active areas starting at 1 mm² (3528 SMD housing). The largest actually offered active area is 256 mm².

Further Information / Publication

Details of the Project are submitted for publication at Journal of Applied Physics.

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