

SiC Photodiodes with Extended Wavelength Response

From "4H" to "6H" response!

The long standing ifw Optronics UV photodiode series has been a work-horse detector for decades now. This is, in part, due to the high resilience of the active material, silicon carbide (SiC), with its wide band-gap proffering low leakage currents, superior radiation hardness, and temperature insensitivity. This makes these devices ideal for space, x-ray and harsh environmental applications since they are also light-weight, small and reasonably priced.

Ifw's existing JEA-series of photodiodes will now be joined with these new "Extended SiC" photodiodes, which allow detection up to ~ 400nm and so include the full UV-A, UV-B and UV-C spectrum.

While regular SiC with "4H" crystal structure shows reduced responsivity above 360nm wavelength, we now supply, as the only worldwide producer, "6H-SiC" material with extended wavelength response. Our new sensors are available with 0.05mm² and 0.1mm² active areas, TO5 and TO18 packages, and include optional integrated band pass optical filters.

More Information

<https://www.lasercomponents.com/uk/product/sic-detectors-205-355-nm/>

Trade Shows

Photonex Europe, October 10 -11, 2018, Ricoh Arena, Coventry, Booth D15

The Company

LASER COMPONENTS specialises in the development, manufacture, and sale of components and services in the laser and optoelectronics industry. At LASER COMPONENTS, we have been serving customers since 1982 with sales branches in five different countries. We have been producing in house since 1986 with production facilities in Germany, Canada, and the United States. In-house production makes up approximately half of our sales revenue. A family-run business, we have more than 200 employees worldwide.