

NEWS RELEASE

Advanced Photonix

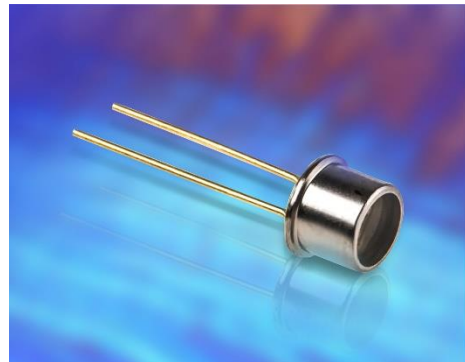
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For Immediate Release

Advanced Photonix Introduces Silicon Carbide (SiC) Solar-Blind UV Photodiodes

Camarillo, Calif. – June 14, 2023 – Advanced Photonix, a division of OSI Optoelectronics and a leading provider of optoelectronics solutions, introduces two new Silicon Carbide (SiC) Broadband UV photodiodes for ultraviolet source monitoring. The **APX-SC0010** features a 1mm² active area, and the **APX-SC00025** features an active area of 0.25 mm². The robust, solar-blind devices operate in the spectral range from 200 nm to 380 nm and can completely block out any wavelengths outside this range, including the visible spectrum.



The new SiC photodiodes have been specially designed for UV index monitoring, dose measurement, and flame detection applications.

With a broadband (UVA+UVB+UVC) sensitivity peaking at 275 nm, excellent UV responsivity characteristics, and very low dark current even at elevated temperatures, these devices are ideal for ultraviolet radiation detection tasks requiring outstanding visible wavelength blocking. They can operate at high temperatures and are responsive between 200 and 400 nm and not responsive to longer wavelengths because of the wide bandgap.

“We are excited to introduce these new Broadband SiC UV photodiodes to the market,” said Hooman Shakouri, Sr. Director of Business Development at Advanced Photonix.

“These devices offer a number of advantages over traditional UV photodiodes, including their high performance, wide temperature range, and long operating life. We believe these new photodiodes will be a valuable addition to our product portfolio and help our customers meet their demanding UV monitoring requirements.”

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Advanced Photonix's newest photodiodes are assembled in 2-pin, hermetically sealed TO-46 packages. The reverse voltage is 20V (max.) for both devices. The APXSC0010 features a capacitance of 97 pF, and the APXSC00025 has a capacitance of 25 pF. Operating and storage temperatures are -40 °C to +125 °C. To view spectral response graphs and mechanical specifications, go to the data sheets here:

<https://www.advancedphotonix.com/wp-content/uploads/2015/07/DS-APX-SC0010.pdf> and <https://www.advancedphotonix.com/wp-content/uploads/2015/07/DS-APX-SC00025.pdf>.

The company recently introduced the first-in-industry 400-1700 nm Extended Visible InGaAs Position Sensitive Detectors (PSDs), sensitive to a unique detection range of 400-1700 nm versus the standard spectral response of 700-1700 nm. To learn more about these distinctive 2 mm diameter active area PSDs with high position detection accuracy and interelectrode resistance, please view the datasheet here:

<https://www.advancedphotonix.com/wp-content/uploads/2015/07/DS-APX-PSD-XVInG-3.1.pdf>.

Advanced Photonix, a division of OSI Optoelectronics, is the leading global provider of innovative photonics, optoelectronics, and advanced electronic systems for prominent aerospace & defense, medical, and industrial OEMs that demand high-reliability, high-performance, market-driven technology solutions today.

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