

NEWS RELEASE

OPTO DIODE CORPORATION

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For Immediate Release

Opto Diode Introduces High-Performance Quad Electron Detector

CAMARILLO, Calif. – May 23, 2023 - Opto Diode Corporation, an ITW company, introduces a high-performance quad electron detector, the **AXUVPS7**, with a total circular active area of 146 mm² (active area per element is 36.5 mm²). The new device joins the AXUV family of advanced technology sensors that are designed to detect electron energy levels from 100 eV to 50 KeV.

The quad electron detector features a hole in the center of the quad array to enable users to easily measure reflected electrons. Other features include a response time of 200 ns, shunt resistance (R_{SH}) of 10 MOhms (min.), and reverse breakdown voltage of 5 V. The capacitance is 2 nF (typ.).



Storage and operating temperature ranges under ambient conditions are from -10° C to 40° C; in a nitrogen or vacuum environment, the temperatures range from -20° C to 80 ° C. The AXUVPS7 electron detector has a lead soldering temperature of 260° C.

To download the data sheet with typical electron response and EUV-UV photon response charts, plus typical UV-VIS-NIR photon responsivity, capacitance vs. voltage, and dark current vs. voltage graphs, please go to: <https://optodiode.com/pdf/AXUVPS7.pdf>.

To access DigiKey's digital catalog and view the AXUVPS7 part for online purchase, go here: <https://www.digikey.com/en/products/detail/opto-diode-corp/AXUVPS7/3782857?s=N4lgTCBcDallIA0CqA1ACgZQOwgLoF8g&vendor=0>.

To learn more about Opto Diode's high performance, reliable, and highly durable photodiodes, sensors, optoelectronic modules, visible, infrared (IR), and high-power IR LEDs, and photonics assemblies for critical applications, please visit: www.optodiode.com.

ABOUT THE COMPANY:

Opto Diode Corporation (Camarillo, CA - www.optodiode.com), an ITW Company, delivers industry-leading sensors, photodiodes, IR detectors, photonic modules, assemblies, and LEDs.

In a recent poll, our customers cited why they chose Opto Diode over our competitors. The most important reasons were product quality and dependability, followed by flexibility and our willingness to help, even when it is the customer's internal issue. Reliable product lifetime is also very important to our customers.

We pride ourselves in being a team player, offering real-world solutions to our customers. With long-lifetime product reliability, superior quality and fast delivery, Opto Diode delivers advanced performance sensors from the extreme ultraviolet (UV) to the mid-infrared (mid-IR). Our products provide unparalleled high-energy particle, electron, X-ray, and UV detection along with superior sensitivity to discriminate trace gases or detect heat, sparks, or flames in the mid-IR spectrum. Other products include high performance LEDs with radiometric emissions from 365 to 940 nm and IR emitters covering 1 to 10 microns.

In addition, Opto Diode can customize the entire product quality system to test, qualify, and document parts and write procedures to the customers' own internal guidelines and specifications. This includes a paper trail, every step of the way, when needed.

Opto Diode serves a variety of industries including aerospace, automotive, biotechnology, food processing, medical, military/defense, semiconductor equipment manufacturing, and test & measurement. Our manufacturing process is in a cleanroom environment, from start to finish. Opto Diode's domestic U.S. facility is optimized for design and manufacturing with an on-site wafer fabrication, class 1,000 to class 10,000 clean rooms, extensive assembly capabilities and packaging expertise. From prototyping to high-volume production, we manufacture wafers-to-components then package and assemble photonic modules-to-optoelectronic sub-systems. For more information, visit www.optodiode.com.

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