NEWSRELEASE

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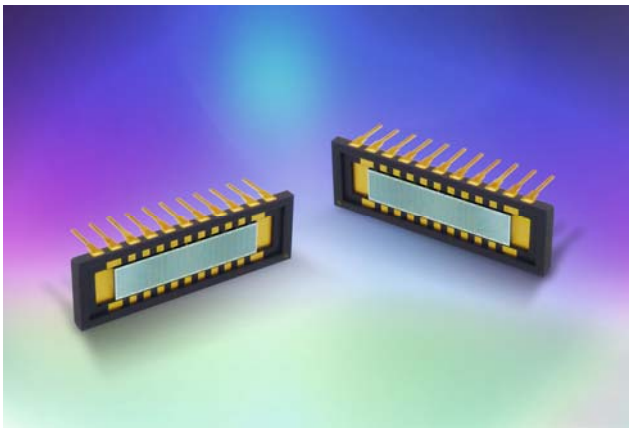
For Immediate Release

Opto Diode Introduces 20-Element Photodiode for Electron Detection & Bolometry

July 10, 2013 – Newbury Park, CA – Opto Diode (www.optodiode.com**),** a division of ITW**,** and a member of the ***ITW*** **Photonics Group**, announces the second in the AXUV series of multi-element photodiodes. The new 20-element **AXUV20ELG** features a 22-pin, dual in-line package with 100 percent internal quantum efficiency (QE). Bolometry, the measurement of minute amounts of radiant energy, is a key application for this highly sensitive photodiode. The device is also ideal for electron detection, providing EUV-UV and UV-VIS-NIR photon responsivity (measured in amperes per watt).



The AXUV20ELG includes an active area of 0.75 mm x 4.1 mm and a sensitive area of 3 mm² per element. The reverse breakdown voltage is typically 25 volts and the capacitance is 40 pF maximum (at 25°C, per element). With a rise time of 200 nsec and shunt resistance (per element) at a minimum 100 MOhms, Opto Diode's new 20-element photodiode provides exceptionally stable response after exposure to high energy radiation.

The sensitive AXUV devices are shipped in secure, temporary housings to protect the photodiode and wire bonds. Ambient storage and operating temperatures range from

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-10 °C to 40 °C, and nitrogen or vacuum storage/operation temperatures range from -20 °C to 80 °C. The lead-soldering temperature is 260 °C with a maximum junction temperature at 70 °C. For more information about Opto Diode's IRD UV photodiodes, please visit: http://optodiode.com/products.html.

Opto Diode Corporation (www.optodiode.com) based in Newbury Park, California, is a member of the ITW Photonics Group, delivering high-performance, standard and custom photodetectors, and reliable, high quality, standard and custom infrared and visible LEDs. The company, with the recent acquisition of International Radiation Detectors, also designs and manufactures semiconductor radiation devices that detect photons in the UV range, X-rays, and other high energy particles. The domestic U. S. manufacturing plant includes a wafer fab and ensures delivery of volume quantities at competitive prices with short lead times. Opto Diode's rigorous quality control standards meet their customer's strictest requirements in a variety of industries, including test & measurement, biotechnology, medical, entertainment, military/defense, industrial, aerospace, automotive, R&D and more.

About *ITW* Photonics Group: ITW, a diversified manufacturer of advanced industrial technology, has brought together three of its photonics business units to form the ITW Photonics Group. The ITW Photonics Group was created to bring together and build on the technical expertise of three individual companies that specialize in photonics technology and span the full spectrum of wavelengths. The group consists of Lumex (LED and LCD technology, headquarters in Palatine, IL and Taiwan), Cal Sensors (IR detector and emitter technology, based in Santa Rosa, CA) and Opto Diode (LED, silicon photodiodes and electro-optical assembly technology, based in Newbury Park, CA).

The synergy of these industry frontrunners provides an unsurpassed range of photonic capabilities within a broad spectrum of markets, including medical, military and industrial controls. The ITW Photonics Group provides integrated solutions that encompass the technology and experience from all three business units, offering design engineers higher product performance with greater feature enhancements. For more information on the ITW Photonics Group, log onto www.itwphotonicsgroup.com.

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