NEWS RELEASE

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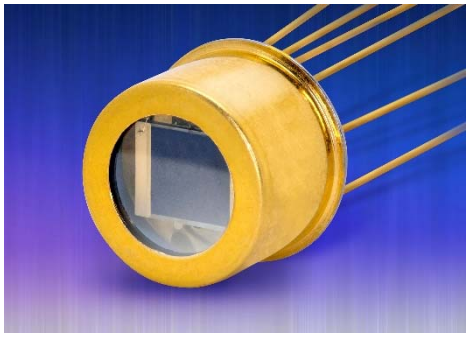
For Immediate Release

Opto Diode Introduces 2-Stage, Cooled Infrared Detector for Emissions Monitoring and Process Control

CAMARILLO, Calif. – Sept. 14, 2021 - **Opto Diode Corporation**, an ITW company, Introduces the **BXT2S-68TE,** a thermoelectrically-cooled (TEC), two-stage infrared (IR) detector developed for gas analysis, emissions monitoring, and process control.



The lead selenide (PbSe) high-performance IR detector features a 6 mm x 6 mm (36 mm²) active area element housed in a TO8 package with a flat sapphire window. Peak sensitivity ranges from 4.3 µm to 4.5 µm with responsivity ranging from 1.65 x 10^4 V/W (minimum) to 2.5 x 10^4 V/W (typical). The device features minimum detectivity (D*) of 1.5 x 10^{10}, resistance ranges from 1.0 to 15.0 MOhms, and a typical response time of 12 µsec.

The company's B-Series cooled IR detectors offer superior sensitivity for extremely low-level signal detection and exceptional stability in environments where fluctuating temperatures exist. They are ideal for applications such as spectroscopy, process control, gas analysis and emissions monitoring.

The **BXT2S-68TE** element operating temperature is -25 °C; absolute ratings for storage and operating temperatures range from -40 °C to +85 °C.

For more information about Opto Diode's two-stage thermoelectrically cooled BXT2 Series of IR detectors for emissions monitoring, spectroscopy, and process control, please go to: https://optodiode.com/ir-detectors-bxt2-series.html. To review specifications with detector

biasing graphs, spectral response charts, and more, please visit: https://optodiode.com/pdf/B-Series_IR-DetectorsDS.pdf.

To learn more about Opto Diode's full line of high-performance, reliable, and highly durable photodiodes, sensors, optoelectronic modules, visible and/or infrared LEDs, and photonics assemblies for critical applications, go to: www.optodiode.com.

Opto Diode Corporation (Camarillo, CA - www.optodiode.com), an ITW Company, delivers industry-leading sensors, photodiodes, IR detectors, photonic modules, assemblies, and LEDs. Available in standard and custom designs, Opto Diode products have earned a reputation for high performance, superior quality and reliability for over 30 years. Opto Diode offers 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, industrial, 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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