

# NEWS RELEASE

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## **OPTO DIODE CORPORATION**

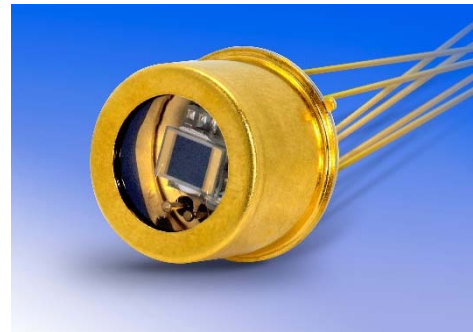
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*For Immediate Release*

## **Opto Diode's New Two-Stage, Cooled IR Detector for Superior Performance in Harsh Environments**

**CAMARILLO, Calif. – July 22, 2021** - Opto Diode Corporation, an ITW company, introduces a two-stage cooled, infrared (IR) detector, the **BXT2S-38T**. The new, high performance 9 mm<sup>2</sup> active area device is available in a TO8 package with a thermo-electric cooler (TEC) and flat sapphire window. With a peak sensitivity wavelength between 4.3 μm and 4.5 μm, the lead selenide (PbSe) device features typical detectivity (D\*) of 3.5 x 10<sup>10</sup>, and resistance ranging from 1.0 -15.0 MOhms. The responsivity is 3.3 x 10<sup>4</sup> V/W (minimum) to 5.0 x 10<sup>4</sup> V/W (typical) with a typical response time of 12 μsec.



The B Series infrared detectors from Opto Diode are ideal for gas analysis and emissions monitoring, process control, and spectroscopy applications. The family of durable, long-life products combines fast response time and high reliability to ensure consistent performance.

Opto Diode's new BXT2S-38T element features cooled detector operation as low as -45 °C; absolute ratings for storage and operating temperatures range from -40 °C to +85 °C. Available for shipping now.

To learn more about the two-stage TEC lead selenide BXT2 Series IR detectors for superior performance in harsh environmental conditions, please visit:

<https://optodiode.com/ir-detectors-bxt2-series.html>. Data sheets, detector biasing

information, detector spectral response charts, typical detector voltage charts, and more are available for download here: [https://optodiode.com/pdf/B-Series\\_IR-DetectorsDS.pdf](https://optodiode.com/pdf/B-Series_IR-DetectorsDS.pdf)

For more information about Opto Diode's full line of exceptionally reliable, high performance photodiodes, sensors, optoelectronic modules, visible and/or infrared LEDs, and photonics assemblies for critical applications, visit: [www.optodiode.com](http://www.optodiode.com).

**Opto Diode Corporation** (Camarillo, CA - [www.optodiode.com](http://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](http://www.optodiode.com).

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