

NEWS RELEASE

OPTO DIODE CORPORATION

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For Immediate Release

Opto Diode Introduces High-Performance, Single-Channel Uncooled Infrared Detector

CAMARILLO, Calif. – May 10, 2021 - Opto Diode Corporation, an ITW company, introduces a single-channel, uncooled infrared (IR) detector, the [BXP-25E](#). Specially designed for fire and flame detection, the high-performance, lead selenide (PbSe) detector offers peak sensitivity between 3.6 μm and 3.8 μm and is available in a TO5 package with a flat sapphire window.

The new 4 mm² active area device features responsivity of 7.5×10^3 V/W (minimum), with typical responsivity of 1.5×10^4 V/W. Response time is typically 2 μsec . Detectivity (D^*) is typically 2.0×10^{10} , and resistance ranges from 0.7 to 2.5 MOhms. Absolute ratings for storage and operating temperatures are -40 °C to +85 °C.



The BXP-25E IR Detector is part of Opto Diode's extensive [IR Detectors, B Series](#) family of exceptionally durable, long-life products. The reliable, single-channel detectors are utilized in gas analysis for medical and industrial tasks, emissions monitoring, spectroscopy, thermal imaging, process control systems, and defense/security applications.

For more information about the BXP Series of uncooled PbSe packaged IR detectors, please visit: <https://optodiode.com/ir-detectors-bxp-series.html>. To view the data sheet with specifications, detector biasing and spectral response graphs, signal-to-noise ratios, packaging and Pin Out information, please go to: https://optodiode.com/pdf/B-Series_IR-DetectorsDS.pdf.

For more information about Opto Diode's full line of photodetectors, sensors, optoelectronic modules, visible and/or infrared LEDs, and photonics assemblies for critical applications, visit: 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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