

NEWS RELEASE

OPTO DIODE CORPORATION

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For Immediate Release

Opto Diode's High-Power GaAIAs IRLED Illuminator for Covert Aircraft Lighting

CAMARILLO, Calif. – March 31, 2022 - Opto Diode Corporation, an ITW company, introduces an infrared light-emitting diode (IRLED) in a convenient TO-66 package for heatsink attach, the **OD-669**. The high-power gallium aluminum arsenide (GaAIAs) IRLED illuminator features a peak emission of 880 nm with an extremely wide angle of emission. Designed with nine chips connected in series, the robust device is housed in an electrically-isolated case, making it ideal for covert aircraft lighting or covert anti-collision lighting in aviation applications.



Total power output ranges from 390 mW (minimum) to 500 mW (typical) under test conditions at 300 mA. The spectral bandwidth at 50% is 80 nm, and the half intensity beam angle is typically 120 degrees. The forward voltage of the OD-669 ranges from 13.5 volts (typical) to 15 volts (maximum); reverse breakdown voltage is at minimum 5 volts and 30 volts (typical). Capacitance is 11 pF; the rise time and fall time is typically 3 μ sec.

Thermal parameters include the storage and operating temperature ranges of -55 °C to 100 °C and the maximum junction temperature of 100 °C.

To download OD-669 specifications that include a thermal derating curve chart, peak pulse current graph, radiation pattern graphic, power output vs. temperature, and more, please go to: <https://optodiode.com/pdf/OD669DS.pdf>.

To learn more about Opto Diode's full line of high-performance, reliable, and highly durable photodiodes, sensors, optoelectronic modules, visible and 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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