NEWS RELEASE

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For Immediate Release

Opto Diode's High-Temperature Infrared LED with Wide Angle of Emission

CAMARILLO, Calif. – August 20, 2020 - **Opto Diode Corporation**, an ITW company, announces the **OD-110WISOLHT,** a high-temperature, wide-angle infrared light-emitting diode (IRLED) specially designed for high-temperature applications, such as covert exterior aircraft lighting.

The device features a peak emission wavelength of 880 nm and total power output ranging from 60 mW (minimum) up to 120 mW (typical). With a spectral bandwidth of 55 nm (typical), the new IRLED has a half intensity beam angle of 110 degrees and is conveniently packaged in a 2-lead TO-39 can with an isolated case. Forward voltage is 1.75 volts (typical) to 2 volts (maximum); reverse breakdown voltage ranges from a minimum of 5 volts to 30 volts (typical). The rise and fall times for the high-temperature wide angle IRLED is 20 nanoseconds, respectively.

Opto Diode's OD-110WISOLHT features a continuous forward current of 500 mA, power dissipation at 1000 mW and peak forward current of 1.5 A while the reverse voltage is 5 volts. The lead soldering temperature (at 1/16" from the case for 10 seconds) is 260 degrees C. Storage and operating temperatures range from -65 °C to 150 °C with a maximum junction temperature of 150 °C**.**

For more information and to view the OD-110WISOLHT data sheet showing a maximum thermal derating curve, a typical degradation curve, the typical radiation pattern, plus typical spectral and power output charts, please go to: https://optodiode.com/pdf/OD110WISOLHTDS.pdf.

To learn more about Opto Diode's full line of sensors, detectors, 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.

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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