

NEWSRELEASE

OPTO DIODE CORPORATION

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For Immediate Release

Opto Diode Introduces a WideTemperature Range Infrared Emitter

September 21, 2015 - Camarillo, CA - Opto Diode Corporation, an ITW company (www.optodiode.com), introduces a wide temperature range infrared (IR) emitter designed for demanding military and industrial markets. The gallium aluminum arsenide (GaAlAs) **OD-850WHT** IR light-emitting diode features typical optical power output ranges from 24 to 28mW, a wide emission angle, and operates at extended temperature ranges from -65 to +150 degrees C. The emitter has peak emission of 850 nm and an optical half intensity beam angle of 80 degrees. With no internal coatings, the device can operate without heat sinking and without derating to 80 degrees C.



For military applications, the extended temperature range of the OD-850WHT allows simplified thermal design for night vision, aircraft, and vehicle light markers for covert operations. The device's thermal improvements are also ideal for high temperature industrial photoelectric controls used in petroleum refining, chemical processing, and power generation. Improvements in thermal design reduces overall cost for monitoring and inspection systems for heaters and furnaces so increased productivity, reduced fuel consumption and emissions, can be achieved.

The device is available in a hermetically-sealed, standard two-lead TO-46 package. All surfaces on Opto Diode's high-temperature infrared emitter are gold-plated for added durability. The device is available for shipping now at \$7.14 per unit. For more information on Opto Diode's OD-850WHT high-power, wide-angle infrared emitter, please download the pdf here: <http://optodiode.com/pdf/OD850WHT.pdf>.

About the Company

Opto Diode Corporation (www.optodiode.com), an ITW Company based in Camarillo, California, has a long history of delivering industry-leading photodetectors and LEDs. Available in standard and custom designs, Opto Diode products have supported the photonics industry for over 30 years and earned a reputation for high performance, superior quality and reliability. With the acquisition of International Radiation Detectors (IRD) and the merger of Cal Sensors (CSI), Opto Diode now offers industry-leading performance detectors from the extreme UV to the mid-infrared (mid-IR) regions of the electromagnetic spectrum. The IRD product line detects high energy particles and photons in the UV and X-ray regions. The CSI detectors provide superior sensitivity to discriminate trace gases or detect heat, sparks or flames in the mid-IR spectrum.

Complemented by high performance LEDs with radiometric emissions from 365 to 940 nm and IR emitters covering 1 to 10 microns, Opto Diode supports customer measurement needs from prototyping to high volume production. All products are designed and manufactured in the US. The Opto Diode facility is optimized for manufacturing with on-site wafer fabrication, class 1,000 to 10,000 clean rooms, extensive assembly capabilities and packaging expertise, delivering products to fulfill specified design requirements. Applying rigorous quality control standards, Opto Diode serves a variety of industries including medical, test & measurement, military/defense, biotechnology, R&D, entertainment, industrial, aerospace and automotive. For more information, visit www.optodiode.com.

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