

# NEWSRELEASE

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## OPTO DIODE CORPORATION

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*For Immediate Release*

## Opto Diode Introduces High-Power, Narrow-Angle IR Emitters

**January 23, 2012 – Newbury Park, CA – Opto Diode ([www.optodiode.com](http://www.optodiode.com))**, a division of ITW, and a member of the ITW Photonics Group, introduces the second in a family of three new infrared (IR) LEDs, the OD-850F. The high-power gallium aluminum arsenide (GaAlAs) features a narrow-angle emission and a wide range of linear power output (minimum 22, typical 30 mW) with an 850nm peak emission. The new IR emitter upgrades and replaces OptoDiode's OD-880F device, offering nearly twice as much output power, less degradation, and better stability. Highly durable, the new IR LED device features a hermetically-sealed, standard TO-46 package with gold-plated surfaces and window caps that are welded to the case. The narrow angle is ideal for long-distance LED tasks in a variety of industrial control applications.



With optical power output of 30mW typical at 100mA and continuous forward current at 100mA, the peak forward current (based on absolute maximum ratings at 25 degrees C) is 300mA. OptoDiode's new OD-850F narrow angle, high power emitter can be stored and operated safely at temperatures ranging from -40 C to 100 degrees C.

**Opto Diode Corporation** ([www.optodiode.com](http://www.optodiode.com)) based in Newbury Park, California, is a member of the ITW Photonics Group, delivering high-performance, standard and custom photodetectors, and reliable, high quality, standard and custom infrared and visible LEDs. The company, with the recent acquisition of International Radiation Detectors, also designs and manufactures semiconductor radiation devices that detect photons in the UV range, X-rays, and other high energy particles. The domestic U. S. manufacturing plant includes a wafer fab and ensures delivery of volume quantities at competitive prices with

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short lead times. Opto Diode's rigorous quality control standards meet their customer's strictest requirements in a variety of industries, including test & measurement, biotechnology, medical, entertainment, military/defense, industrial, aerospace, automotive, R&D and more.

**About ITW Photonics Group:** ITW, a diversified manufacturer of advanced industrial technology, has brought together three of its photonics business units to form the ITW Photonics Group. The ITW Photonics Group was created to bring together and build on the technical expertise of three individual companies that specialize in photonics technology and span the full spectrum of wavelengths. The group consists of Lumex (LED and LCD technology, headquarters in Palatine, IL and Taiwan), Cal Sensors (IR detector and emitter technology, based in Santa Rosa, CA) and Opto Diode (LED, silicon photodiodes and electro-optical assembly technology, based in Newbury Park, CA). The synergy of these industry frontrunners provides an unsurpassed range of photonic capabilities within a broad spectrum of markets, including medical, military and industrial controls. The ITW Photonics Group provides integrated solutions that encompass the technology and experience from all three business units, offering design engineers higher product performance with greater feature enhancements. For more information on the ITW Photonics Group, log onto [www.itwphotonicsgroup.com](http://www.itwphotonicsgroup.com).

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