

# NEWS RELEASE

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## OPTO DIODE CORPORATION

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*For Immediate Release*

## Opto Diode Introduces Wide-Emission, High-Power IR LEDs

**January 19, 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 first of a family of three new infrared (IR) emitters. The OD-850W gallium aluminum arsenide (GaAlAs) LED features a wide-emission angle for coverage over a large area and extremely high optical output (minimum 30, typical 40mW) with peak emission wavelength at 850nm. The new device is an upgrade and replacement for Opto Diode's OD-880W IRLEDs, offering nearly double the output power, added stability, and much less degradation. Additionally, the 850nm wavelength is more closely matched to the peak response of photo transistors and opto integrated circuits (ICs), making them ideal for industrial control applications such as photoelectric controls and optical encoders.



Hermetically sealed, the standard TO-46 package is designed with gold-plated surfaces and welded caps, for added durability. The IR LED offers optical power of 40mW typical at 100mA, continuous forward current at 100mA and peak forward current at 300mA (absolute maximum ratings at 25 degrees C). The storage and operating temperatures range from -40 degrees C to 100 degrees C with a maximum junction temperature of 100 degrees C. Available and shipping now, the OD-850W IR LEDs are priced affordably at \$2.80 each, minimum order of 100 pieces.

**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 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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