# NEWS RELEASE

**OPTO DIODE CORPORATION**
An ITW Company
1260 Calle Suerte
Camarillo, CA 93012
Contact: Russell Dahl, Business Unit Manager
Phone: 805-499-0335 x312
Fax: 805-499-8108
E-mail: russdahl@optodiode.com
Web Site: www.optodiode.com

**Media Contact: Marlene Moore**
Smith Miller Moore
Phone: 818-708-1704
Email:marlene@smithmillermoore.com

*For Immediate Release*

## Opto Diode Offers High-Power GaAlAs IRLED Illuminator

**CAMARILLO, Calif. – October 5, 2020** - **Opto Diode Corporation**, an ITW company, announces a gallium aluminum arsenide (GaAlAs) near-infrared (IR) LED illuminator with ultra-high-power output, the **OD-663-850**. Specially designed for use in surveillance and night vision applications, the device has a very uniform optical beam with a peak emission wavelength of 850 nm.

Other features include total power output from 300 mW (minimum) to 425 mW (typical), with forward voltage from 4.8 V (typical) to 5.4 V (maximum). The spectral bandwidth is 40 nm with a half intensity beam angle of 120 degrees. Reverse breakdown voltage ranges from a minimum of 5 V to 30 V (typical); rise and fall times are 100 nsec, respectively.

Housed in a standard, 2-lead TO-66 electrically-isolated package, the OD-663-850 is ideal for use in high-power, near-infrared illumination tasks. With power dissipation at 2.2 W, Opto Diode's GaAlAs IRLED features a continuous forward current of 400 mA, peak forward current of 1 A, and reverse voltage of 5 V. The lead soldering temperature (1/16" from the case for 10 seconds) is 260 °C. Storage and operating temperatures range from 40 °C to 100 °C with a maximum junction temperature of 100 °C.

To view graphs showing the maximum thermal derating curve, typical degradation and radiation-pattern curves, typical spectral output, and more, please go to Opto Diode's high-power GaAlAs IRLED illuminator data sheet here: https://optodiode.com/pdf/OD663-850DS.pdf

For more information about Opto Diode's full line of photodetectors, sensors, 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.

# # #