

New Product Announcement

Mouser Stocks High-Flux OSRON Black Flat LEDs from OSRAM

November 23, 2015 – [Mouser Electronics](http://www.mouser.com), Inc. is now stocking the [OSRON Black Flat LEDs](#), from [OSRAM Opto Semiconductors](#). These multichip white LEDs for front headlamps can generate more light from a small package than any other comparable product, giving [automotive](#), headlamp, and [work lamp](#) manufacturers greater design flexibility.

[OSRAM OSRON Black Flat LEDs](#), now available at Mouser Electronics, are small, high-flux light emitting diodes (LEDs) that pack robust brightness and high stability in a slim SMD-4 epoxy package. The LEDs are built on gallium nitride-based UX:3 chip technology, which generates very high luminous flux even at high currents. This brightness is emitted from a comparatively smaller package, which enables very compact headlamp designs. Designed with surface mount technology (SMT), the LEDs can be easily mounted on a printed circuit board and then processed further as part of standard soldering procedures. This soldering capability enables the LED to be integrated in a simple, standardized process and reduces the complexity of the processing steps, which saves considerable time and costs, especially compared to previous multichip LEDs. The black QFN package expands in a similar way to the circuit board during cyclic temperature loads, meaning that the soldered joints are exposed to much less strain and are significantly stronger.

The 500-lm KW H2L531.TE model LED has a low thermal resistance of 1.6 K/W (typical, LED only), a luminous intensity of 174.9 cd, and a color chromaticity of 0.32 (Cx) and 0.33 (Cy) according to CIE 1931. The 250-lm LUW HWQP model LED has thermal resistance of 4.3 K/W (typical, LED only), a luminous intensity of 87.5 cd, and a color chromaticity of 0.33 (Cx) and 0.34 (Cy). Both models deliver a beam angle of 120 degrees at 50 percent luminous intensity.

To learn more, visit <http://www.mouser.com/new/osram/osram-black-flat/>.

With its broad product line and unsurpassed customer service, Mouser caters to design engineers and buyers by delivering What's Next in advanced technologies. Mouser offers customers 21 global support locations and stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is updated daily and searches more than 10 million products to locate over 4 million orderable part numbers available for easy online purchase. Mouser.com also houses an industry-first interactive catalog, data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a subsidiary of TTI, Inc., is part of Warren Buffett's Berkshire Hathaway family of companies. Mouser is an award-winning, authorized semiconductor and electronic component distributor, focused on the rapid introduction of new products and technologies to electronic design engineers and buyers. Mouser.com features more than 4 million products online from more than 500 manufacturers. Mouser publishes multiple catalogs per year providing designers with up-to-date data on the components now available for the next generation of electronic devices. Mouser ships globally to over 500,000 customers in 170 countries from its 492,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

About OSRAM Opto Semiconductors

OSRAM Opto Semiconductors is a world leading manufacturer of optoelectronic semiconductors for the lighting, sensor and visualization sectors. The extensive product portfolio of OSRAM Opto Semiconductors includes a wide selection of high-brightness high-power LEDs in the visible range along with other semiconductor technologies used in a variety of lighting applications.

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