

Presse Press

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New LED from Osram enables ultra-slim designs for headlights

Oslon Boost HM delivers outstanding brightness values with compact dimensions

Light is the new chrome for cars. In recent years, technological progress in car lighting has led to light becoming an essential design element in modern cars. Smaller and brighter light sources are leading to more compact and versatile headlamps. The powerful Osram Oslon Boost HM pays tribute to this trend by enabling ultra-slim headlamp designs in vehicles.

In addition to numerous features such as adaptive front lighting, often called bend lighting or matrix lighting, the miniaturization of this component plays a particularly important role. With the Oslon Boost HM, Osram developers have succeeded in achieving an outstanding brightness of 415 lm at 1.5 A with a very small chip area of just 0.5 mm².

The package of the LED is also particularly compact at 1.9 mm x 1.5 mm x 0.73 mm, providing a finger-width front headlamp solution, without compromising light output. The luminance of 255 cd/mm² at 1.5 A is an absolute best-in-class performance value for this type of LED.

In addition to headlamps, the Oslon Boost HM can also be used in combination with other LEDs, to provide an additional high beam. Thanks to its outstanding luminance, the LED is also suitable for use in MEMS-based adaptive front lighting systems. Osram Opto Semiconductors was able to draw on its many years of expertise in package design to create this new product. The robust ceramic package of the Oslon Boost HM allows for easy thermal management within the component thanks to an electrically insulated pad. The special internal design structures heat can be easily dissipated from the LED. Furthermore, the LED shines with a particularly low thermal resistance of only 4.62 K/W.

"With the Oslon Boost HM, we are not only expanding our Oslon Boost product family to include particularly high luminance levels but are also helping our customers create ultra-slim headlamp designs," explains Florian Fink, Marketing Manager for Automotive Exterior at Osram Opto Semiconductors. "Thanks to our products, future vehicles will feature a 'new face'."

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The Oslon Boost HM enables outstanding brightness values and compact dimensions.
Picture: Osram



The Oslon Boost HM enables ultra-slim headlight designs.
Picture: Osram

ABOUT OSRAM

OSRAM, based in Munich, is a leading global high-tech company with a history dating back more than 110 years. Primarily focused on semiconductor -based technologies, our products are used in highly diverse applications ranging from virtual reality to autonomous driving and from smartphones to smart and connected lighting solutions in buildings and cities. OSRAM uses the endless possibilities of light to improve the quality of life for individuals and communities. OSRAM's innovations enable people all over the world not only to see better, but also to communicate, travel, work and live better. OSRAM has approximately 23,500 employees worldwide as of end of fiscal 2019 (September 30) and generated revenue of about 3.5 billion euros from continuing activities. The company is listed on the stock exchanges in Frankfurt and Munich (ISIN: DE000LED4000; WKN: LED 400; trading symbol: OSR). Additional information can be found at www.osram.com.