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OSRAM Opto Semiconductors Receives PACE Award for Automotive Innovation

[OSTAR Headlamp LED recognized for innovation in forward headlamp control](#)

OSRAM Opto Semiconductors was an award winner at the 17th Annual Automotive News PACE Awards for innovation held at a black tie ceremony last night at the Max M. Fisher Music Center in Detroit, Mich. The award was accepted by Peter Knittl, LED automotive director at OSRAM Opto Semiconductors.

OSRAM's OSTAR Headlamp LED won an award in the Product category, which honors innovation in new products, components or systems that have significant market impact and act as "game changers" in the automotive industry. The prestigious PACE (Premier Automotive Suppliers' Contribution to Excellence) Award is presented by *Automotive News*, Ernst & Young LLP and Transportation Research Center Inc. (TRC Inc.).

The OSRAM OSTAR Headlamp LED uses the auto industry's 1st ThinGaN light-emitting diodes (LEDs) with phosphor layer transfer. The OSRAM OSTAR Headlamp was developed with a unique integrated shutter function to control the output of the light, eliminating the need for mechanical shutters and projecting a clearly-defined legal beam pattern onto the road without the loss of light commonly associated with mechanical shutters.

The OSRAM OSTAR LED platform of products provides more styling freedom, reduces energy use, is more reliable and generates more light than conventional headlamps. It is available in five chip configurations -- 1X1, 1X2, 1X3, 1X4 & 1X5 -- with precisely packaged chip spacing to achieve a consistent and uniform beam pattern critical to the optical design. Typical light values achieved for each LED chip are 160 lm at 700 mA. Depending on the variant and operating current, values between 125 lm and 1100 lm are achievable. An innovative conversion process provides a seamless white color impression at maximum brightness levels.

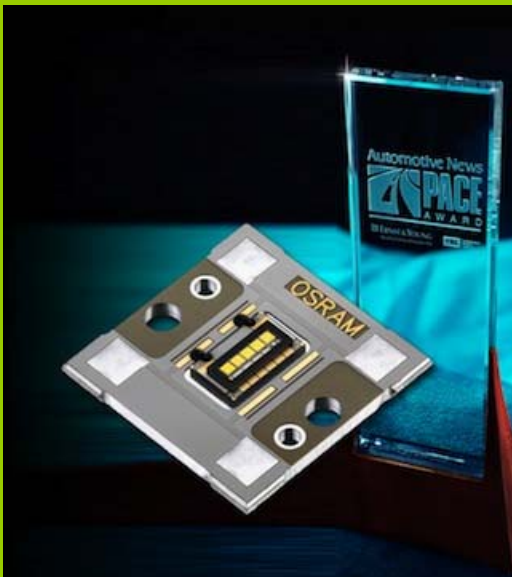
With its scalable brightness, the OSTAR headlamp is perfectly suited to all headlamp functions. In the top-of-the-line Audi A8 sedan, OSRAM OSTAR LEDs have advanced headlamp lighting beyond simple low and high beams. The OSTAR Headlamp LED provides all of the forward lighting functions,

including LED headlamp for nighttime driving, low beam light sources for daytime running lights (DRL), and special lighting functions such as motorway beams, cornering lights and all-weather lights.

“OSRAM Optical Semiconductors is pleased to have been selected as one of the lead suppliers to participate on such a prestigious flagship vehicle as the Audi A8,” said Peter Knittl. “LEDs already meet all the requirements of modern automobile lighting and are setting new standards in many respects, and the implementation of our latest OSTAR Headlamp LED forward lighting technology into this vehicle is a prime example.”

Profiles of each PACE Award winner are available at www.automotivenews.com/pace

For more information on the OSTAR Headlamp LED platform, visit www.osram-os.com



OSRAM Opto Semiconductors' OSTAR Headlamp LED has received a prestigious 2011 PACE Award for innovations in controlling forward headlamp functions, such as in the Audi A8 sedan. Photos: OSRAM

ABOUT OSRAM OPTO SEMICONDUCTORS

OSRAM is part of the Industry sector of Siemens and one of the two leading lighting manufacturers in the world. Its subsidiary, OSRAM Opto Semiconductors GmbH in Regensburg (Germany), offers its customers solutions based on semiconductor technology for lighting, sensor and visualization applications. OSRAM Opto Semiconductors has production sites in Regensburg (Germany) and Penang (Malaysia). Its headquarters for North America is in Sunnyvale (USA), and for Asia in Hong Kong. OSRAM Opto Semiconductors also has sales offices throughout the world. For more information go to www.osram-os.com. OSRAM, the parent company, offers its customers a complete supply chain in the LED sector including components, modules and solutions. More than 50% of annual outlay on research and development is devoted to these technologies.

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