



PRESS RELEASE

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Valeo & ROHM Semiconductor co-develop the next generation of power electronics

Valeo, a leading automotive technology company, and ROHM Semiconductor, a major semiconductor and electronic component manufacturer, collaborate to propose and optimize the next generation of power modules for electric motor inverters using their combined expertise in power electronics management. As a first step, ROHM will provide its 2-in-1 Silicon Carbide (SiC) molded module TRCDRIVE pack™ to Valeo for future powertrain solutions.

Valeo is broadening access to efficient, electrified mobility across various vehicle types and markets from the smallest one (ebikes), through the mainstream (passenger cars) to the biggest one (eTrucks). By combining Valeo's expertise in mechatronics, thermal management and software development with ROHM's power modules, Valeo drives the power electronics solution forward, contributing to the performance, efficiency, and decarbonization of automotive systems worldwide.

Valeo and ROHM have been collaborating since 2022, initially focusing on technical exchanges aimed at improving the performance and efficiency of the motor inverter – a key component in the propulsion systems of electric vehicles (EVs) and plug-in hybrids (PHEVs). By refining power electronics, both companies aim to offer optimized cost/performance by delivering higher energy efficiency, reducing heat generation thanks to an optimized cooling and mechatronic integration, and increasing overall reliability with a SiC packaging.

*"This partnership marks, for Valeo Power Division, a significant step forward in delivering advanced and high-efficient power electronics," says **Xavier DUPONT, Valeo Power Division CEO.** "Together, we aim to set new industry standards for high voltage inverters and accelerate the transition towards more efficient and affordable electric mobility."*

*"We are pleased to support Valeo, a renowned automotive supplier, with our power semiconductors. ROHM's TRCDRIVE pack™ provides high power density, leading to an improved power efficiency. Together, we contribute to the development of highly efficient powertrains by fostering the collaboration with Valeo," says **Wolfram HARNACK, President ROHM Semiconductor GmbH.***

These evolutions are all essential to supporting the growing demand for longer range, faster charging capabilities and, overall, a high performance and an affordable inverter for BEVs and PHEVs.

Valeo will start supplying a first series project in early 2026. Valeo and ROHM will contribute to the improvement of efficiency and downsizing of Valeo's next generation of xEV inverters.



Background on TRCDRIVE pack™

TRCDRIVE pack™ is a trademark for the SiC molded module developed for traction inverter drives. This product features high power density and a unique terminal configuration – solving the key challenges of traction inverters in terms of miniaturization, higher efficiency, and fewer person-hours. Because SiC enables low-loss power conversion under high voltage conditions, combining Valeo's component technology, casing design and thermal management expertise with ROHM's power module creates a synergistic effect. Through both companies' collaboration in automotive power electronics, they contribute to achieving a decarbonized society by enhancing the performance and efficiency of the motor inverter.

More information is available via:

https://www.rohm.com/news-detail?news-title=2024-06-11_news_trcdrive-pack&defaultGroupId=false

TRCDRIVE pack™ are trademarks or registered trademarks of ROHM Co., Ltd.

About Valeo

Valeo is a technology company and partner to all automakers and new mobility players worldwide. Valeo innovates to make mobility safer, smarter and more sustainable. Valeo enjoys technological and industrial leadership in electrification, driving assistance systems, reinvention of the interior experience and lighting everywhere. These four areas, vital to the transformation of mobility, are the Group's growth drivers.

Valeo in figures: 22 billion euros in sales in 2023 | 109 600 employees, 28 countries, 159 plants, 64 research and development centers and 19 distribution platforms at June 30, 2024.

Valeo is listed on the Paris Stock Exchange.

<https://www.valeo.com/>

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About ROHM Semiconductor

ROHM, a leading semiconductor and electronic component manufacturer, was established in 1958. From the automotive and industrial equipment markets to the consumer and communication sectors, ROHM supplies ICs, discretes, and electronic components featuring superior quality and reliability through a global sales and development network. Our strengths in the analog and power markets allow us to propose optimized solutions for entire systems that combine peripheral components (i.e., transistors, diodes, resistors) with the latest SiC power devices as well as drive ICs that maximize their performance.

<https://www.rohm.com/>

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