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ROHM Co.,Ltd.

ROHM's SiC MOSFET Adopted for Mass Production in Toyota's New BEV "bZ5" for the Chinese Market

Integration in traction inverters extends the cruising range and improves performance

The power module equipped with ROHM Co., Ltd.'s 4th generation SiC MOSFET bare chip has been adopted in the traction inverter of Toyota Motor Corporation's (hereinafter "Toyota") new crossover BEV "bZ5" for the Chinese market.

The "bZ5" is a crossover-type BEV jointly developed by Toyota, BYD TOYOTA EV TECHNOLOGY Co., Ltd. (hereinafter "BTET"), FAW Toyota Motor Co., Ltd. (hereinafter "FAW Toyota"), etc., and was launched by FAW Toyota in June 2025.

The power module adopted this time has started mass production shipments from HAIMOSIC (SHANGHAI) Co., Ltd., a joint venture between ROHM and Zhenghai Group. ROHM's power solutions centered on SiC MOSFETs contribute to the extended range and enhanced performance of the new BEV.

ROHM aims to complete the construction of the production line for the next-generation 5th generation SiC MOSFET by 2025, and is also accelerating the market introduction plans for the 6th and 7th generations, focusing on the development of SiC power devices. ROHM will continue to work on improving device performance and production efficiency, and strengthen the system to provide SiC in various forms such as bare chips, discrete components, and modules, promoting the spread of SiC and contributing to the creation of a sustainable mobility society.



About the "bZ5"

The "bZ5" is a crossover BEV jointly developed by Toyota, BTET, FAW Toyota, etc., with the concept of "Reboot." It features active and iconic styling and is designed to provide a personal space for young users known as Generation Z. The driving range is 550 km for the lower grade and 630 km (CLTC mode) for the higher grade. Reservations began on April 22, 2025, the day before the opening of the 2025 Shanghai Motor Show, attracting significant attention.

About HAIMOSIC (SHANGHAI) Co., Ltd.

HAIMOSIC (SHANGHAI) CO.,LTD. is a Joint venture initiated by Zhenghai Group Co., Ltd. (China) and ROHM Co., Ltd. (Japan). HAIMOSIC is mainly engaged in the R&D, design, manufacturing and sales of the silicon carbide power module, with an estimated annual capacity of 360,000 pieces/year. The total investment of the project is 450 million RMB and the registered capital is 250 million RMB.

For more details, please visit HAIMOSIC's website:

<http://www.haimosic.com/>