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SK Powertech Adopts Silvaco's Victory TCAD Solution for the Development of Next Generation SiC Power Devices

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SANTA CLARA, Calif.--(<u>BUSINESS WIRE</u>)--Silvaco Group, Inc. ("Silvaco"), a provider of TCAD, EDA software, and design IP, today announced that SK Powertech has adopted its Victory TCAD (Technology Computer-Aided Design) solution for power devices to accelerate research and development of its next generation SiC (Silicon Carbide) power devices. The Victory TCAD solution enables SK Powertech to achieve significant improvements in its power management technology.

SK Powertech is a leading provider of compact SiC power devices for high voltage/high temperature applications serving growing end markets such as electric vehicles, railways, and alternative energy. SK Powertech's products are optimal for smaller, light-weight packages with high voltage/high temperature requirements.

"To achieve significant advances in SiC power semiconductor performance, we sought a partner who could assist us in implementing our next-generation SiC power technology. Through our collaboration with Silvaco's technical team and the utilization of their Victory TCAD Solution for power devices, we successfully transformed conceptual ideas into actual working devices," said Dr. Changheon Yang, director of R&D center at SK Powertech. "The combination of the advanced feature set in Victory TCAD Solution and Silvaco's depth of technical capabilities enables us to deliver the best products and to meet our end market requirements."

"The expanding markets for power management in solar, automotive, industrial applications and embedded computers are driving the growing adoption of SiC power devices," said Dr. Babak Taheri, CEO of Silvaco Group. "The success of SK Powertech demonstrates the benefits of using Silvaco Victory TCAD solution for power devices. This solution enables the development of cutting-edge semiconductor products that drive innovation and advancement in the field."

"Our Victory TCAD solution is recognized in the semiconductor industry for its simulation and analyses capabilities and is widely adopted in the SiC power devices market," said Eric Guichard, Senior Vice President, and General Manager of the TCAD business unit of Silvaco. "With Silvaco's TCAD solution, SK Powertech is well-positioned to make significant advancements in SiC power device technology and to contribute to the adoption of its SiC devices in various industries."

About Silvaco Group, Inc.

Silvaco is a provider of TCAD, EDA software, and semiconductor design IP, used for process and device development for advanced semiconductors, power IC, display, memory, and SoC design. Silvaco is headquartered in Santa Clara, California and has a global presence with offices located in North America, Europe, Brazil, China, Japan, Korea, Singapore, and Taiwan.

About SK Powertech

Founded in 2017, SK Powertech has been leading the power device industry in Korea and became a part of the SK Group in May 2022. Leveraging the experience of the first commercialization of SiC power semiconductors in Korea and the synergy effect of SiC wafer materials within the SK Group, SK Powertech has become a company with global competitiveness in the manufacturing sector. SK Powertech is enhancing our ability to respond to major customers and business partners to expand global market share.

Contacts

Silvaco Press/Media Contact: Farhad Hayat press@silvaco.com