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Global 750V Ultra-Thin SiC Power Transistor Market Growth 2026-2032

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Abstracts

The global 750V Ultra-Thin SiC Power Transistor market size is predicted to grow from US$ 80.22 million in 2025 to US$ 172 million in 2032; it is expected to grow at a CAGR of 11.0% from 2026 to 2032.

The 750V ultra-thin silicon carbide power transistor is a high-performance discrete power device made from silicon carbide semiconductor material, primarily used in power electronics conversion and motor drive systems. The device is mainly offered in TOLL ultra-thin surface-mount packages, with a typical thickness of approximately 2.3 millimeters, ranging from 2.2 to 2.5 millimeters. It is rated for 750 volts and has an on-resistance spanning from 13 milliohms to 65 milliohms, providing high-speed switching capability and low conduction loss. The manufacturing process involves high-quality silicon carbide epitaxial wafer fabrication, precision photolithography and ion implantation, as well as advanced gate structure design and low-thermal-resistance packaging techniques. Its key functions include efficient power switching and energy conversion control, suitable for industrial power inverters, electric vehicle traction inverters, photovoltaic inverters, and medium-to-low power DC-DC converters. In 2025, the global average gross margin for this type of device is approximately 38%, with an average unit price of 37 USD per piece.

The 750V ultra-thin silicon carbide power transistor is a high-performance wide-bandgap semiconductor discrete power device, relying on upstream high-purity SiC epitaxial wafer production, midstream advanced device processing, and thin TOLL package technology, with downstream applications in industrial power inverters, electric vehicle traction inverters, and photovoltaic inverters forming a complete supply chain. In 2025, only one company globally achieved formal mass production of this product, resulting in highly concentrated core production capacity and relatively limited supply.

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As upstream material capacity expands and midstream processes mature, the supply side continues to improve, supporting broader adoption in downstream applications.

Demand is driven by high-efficiency, high-frequency power conversion and compact inverter designs, with core applications including electric vehicle traction inverters, industrial motor drives, and photovoltaic inverters. Market growth is primarily fueled by rising penetration of electric vehicles and increasing investment in renewable energy generation, while medium-to-low power DC-DC converters steadily increase demand for thin-package devices. In 2025, leading companies collaborated on process optimization and technical coordination around thin TOLL packaging, promoting high standardization. Policy measures in major economies, including energy efficiency regulations and carbon reduction targets, further accelerate the adoption of SiC devices in power electronics applications.

The industry is expected to maintain high concentration and technological barriers, with thin TOLL packaging becoming the mainstream design. Product performance will continue to evolve toward lower on-resistance, lower thermal resistance, and higher switching frequency. Supply chain collaboration, regional manufacturing adjustments, and expanded production capacity will support steady market growth, while technological iteration and the development of alternative materials represent long-term considerations. Overall, ultra-thin SiC power transistors are expected to continue expanding their applications in efficient power conversion, with the industry maintaining a robust growth trajectory.

LP Information, Inc. (LPI) ' newest research report, the ?750V Ultra-Thin SiC Power Transistor Industry Forecast? looks at past sales and reviews total world 750V Ultra-Thin SiC Power Transistor sales in 2025, providing a comprehensive analysis by region and market sector of projected 750V Ultra-Thin SiC Power Transistor sales for 2026 through 2032. With 750V Ultra-Thin SiC Power Transistor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world 750V Ultra-Thin SiC Power Transistor industry.

This Insight Report provides a comprehensive analysis of the global 750V Ultra-Thin SiC Power Transistor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 750V Ultra-Thin SiC Power Transistor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these

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firms? unique position in an accelerating global 750V Ultra-Thin SiC Power Transistor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 750V Ultra-Thin SiC Power Transistor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 750V Ultra-Thin SiC Power Transistor.

This report presents a comprehensive overview, market shares, and growth opportunities of 750V Ultra-Thin SiC Power Transistor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

High Current Type (13m? - 26m?)

Medium Current Type (36m? - 45m?)

Low Current Type (65m?)

Segmentation by Thermal Management Feature:

Enhanced Thermal Performance (R?JC ?0.5?C/W)

Standard Thermal Performance (R?JC 0.5-1.0?C/W)

High Thermal Dissipation (>1.0?C/W)

Segmentation by On Resistance Range:

Ultra Low Rds(on) (4m? - 13m?)

Low Rds(on) (14m? - 30m?)

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Medium Rds(on) (31m? - 60m?)

High Rds(on) (61m? - 120m?)

Segmentation by Application:

AI Server Power Supply

On Board Charger (OBC)

DC DC Converter

Photovoltaic Inverter

Energy Storage System (ESS)

Industrial Power Supply

Other Applications

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

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- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

- ROHM Co., Ltd.

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Key Questions Addressed in this Report

What is the 10-year outlook for the global 750V Ultra-Thin SiC Power Transistor market?

What factors are driving 750V Ultra-Thin SiC Power Transistor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 750V Ultra-Thin SiC Power Transistor market opportunities vary by end market size?

How does 750V Ultra-Thin SiC Power Transistor break out by Type, by Application?

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