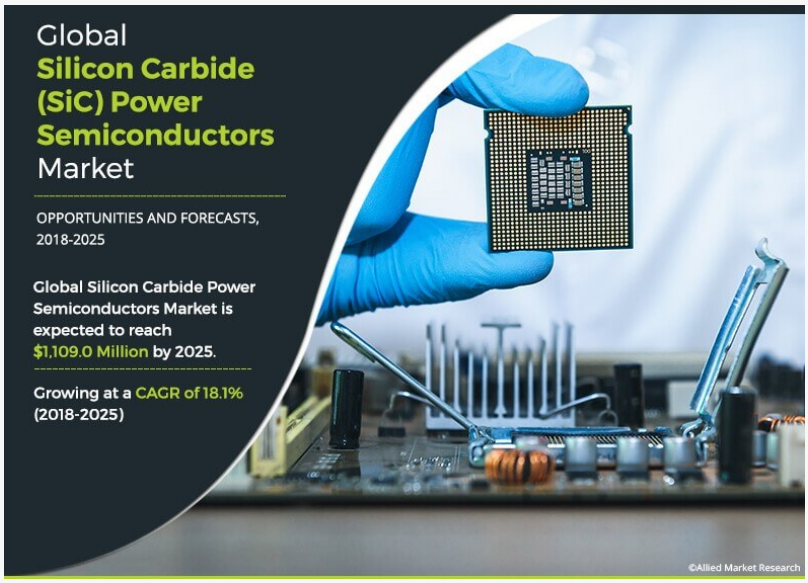
Silicon Carbide (SiC) Power Semiconductors Market to Hit $1.11 Bn By 2025 at 18.1% CAGR | Customization Available [2032]

WILMINGTON, DELAWARE , UNITED STATES, March 19, 2024 /EINPresswire.com/ -- Allied Market Research published an exclusive report, titled, "Silicon Carbide (SiC) Power Semiconductors Market By Power Module (Power Product and Discrete Product) and Industry Vertical (IT & Telecom, Aerospace & Defense, Industrial, Energy & Power, Electronics, Automotive, and Healthcare): Global Opportunity Analysis and Industry Forecast, 2018-2025".



Silicon Carbide (SiC) Power Semiconductors Market

The global silicon carbide power semiconductors market size was valued at $302 million in 2017 and is projected to reach $1,109 million by 2025, registering a CAGR of 18.1% from 2018 to 2025.

The major advantages of silicon carbide power semiconductors over traditional silicon semiconductors are their wider bandgap, higher breakdown electric field, thermal conductivity, and saturated electron drift velocity. These properties enable SiC devices to operate at higher temperatures, withstand very high voltages, minimize energy loss, and operate at high frequencies (RF and microwave). Moreover, the high switching frequency of SiC power devices allows the size of the power electronics system to be comparatively smaller than power modules designed with silicon devices.

> Advantages of compound semiconductors (SiC) over silicon-based technology drives the silicon carbide (SiC) power semiconductors market growth”
>
> *David Correa*

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The report offers an in-depth analysis of the market, such as estimates of revenue in the coming years, key segments, factors influencing growth, constraints, and conceivable opportunities. It also includes an assessment of the competitive landscape and regional analysis. This report serves as a valuable resource for industry leaders, stakeholders, new entrants, and brokers, assisting them in developing tactics to showcase market dominance and gain their enterprise goals.

The comprehensive report on the global silicon carbide (SiC) power semiconductors market provides a qualitative and quantitative evaluation of the historical and forecasted market size and share. It includes a thorough review of the research methodology used, including the extraction of primary and secondary data. In addition, it highlights important benefits for stakeholders, identifies the most profitable investment opportunities, describes the most successful strategies, and analyses the impact of the Russian-Ukrainian war. Porter's Five Forces Analysis assists industry leaders in assessing an organization's current competitive strength as well as the position in which competition may move.

Research Methodology:
The global silicon carbide (SiC) power semiconductors industry was thoroughly researched through a comprehensive approach combining primary and secondary research methodologies. Secondary research provided a broad overview of goods and services, whereas primary research delved deeper into the various factors driving the market. To obtain comprehensive insights into the industry, a meticulous search was undertaken utilizing various sources such as press releases, specialized business periodicals, and government websites. This meticulous research methodology has provided a unique and extensive insight into the global silicon carbide (SiC) power semiconductors market.

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The Report Provides:
- Assessment of market share at both regional and country levels.
- Analysis of market share for key industry players.
- Strategic recommendations tailored for new entrants.
- Forecasts for all mentioned segments and regional markets over the next decade.
- Exploration of market trends, including drivers, challenges, opportunities, threats, investment opportunities, and recommendations.
- Strategic recommendations specifically focused on the primary business segment within the market forecast.
- Overview of major general trends through competitive landscaping.
- Company profiling with detailed insights into strategy, financials, and recent developments.
- Mapping of the latest technological progress and supply chain trends.

Segmental Analysis:
The market for silicon carbide (SiC) power semiconductors is categorized based on power module, industry vertical, and geography. This comprehensive report delves into each segment, providing valuable insights for market players and stakeholders to identify the most rapidly growing and lucrative segments.

Geographical analysis is a key focus, evaluating market performance across regions such as North America (United States, Canada, and Mexico), Europe (Germany, France, UK, Russia, and Italy), Asia-Pacific (China, Japan, Korea, India, and Southeast Asia), South America (Brazil, Argentina, Colombia), and the Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, and South Africa) for a thorough understanding of silicon carbide (SiC) power semiconductors market penetration.

The report on the silicon carbide (SiC) power semiconductors market provides an extensive overview, incorporating a SWOT analysis of major industry players. This includes a detailed examination of business profiles, financial assessments, and a portfolio analysis of their services and products. Additionally, the report highlights the latest market developments, encompassing expansions, joint ventures, and product launches. These insights empower stakeholders to gauge the long-term profitability of the industry.

Key Market Players & Competitive Insights:
The global silicon carbide (SiC) power semiconductors market report also discusses the top industry players in the market. It provides detailed information on companies, operational divisions, business performance, and strategic initiatives, such as collaborations, mergers and acquisitions, partnerships, etc., to enhance their market presence and achieve growth. Moreover, the report highlights the significant progress made by the leading players. This section of the report offers a comprehensive evaluation of the competitive landscape in the market and gives insights into the level of competition prevailing within it. Furthermore, it showcases the strategies employed by the top vendors to boost sales and promote their services.

The key players identified in the global silicon carbide (SiC) power semiconductors market report are:
- Cree, Inc.
- Fairchild Semiconductor
- General Electric
- Infineon Technologies AG
- Microsemi Corporation
- NXP Semiconductors
- Renesas Electronics Corporation
- ROHM

- STMicroelectronics
- Power Integrations
- Tokyo Electron Limited
- Toshiba Corporation

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We are in professional corporate relations with various companies, and this helps us in digging out market data that helps us generate accurate research data tables and confirms utmost accuracy in our market forecasting. Each and every data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

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