

# **Power Discrete Market Size and Forecast (2021 - 2034), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Material (Silicon (Si), Silicon Carbide (SiC), Gallium Nitride (GAN), Others), Industry Vertical (ICT, Automotive & Transportation, Consumer Electronics, Industrial, Education, Media & Entertainment, Government & Public Sector, Others), and Geography (North America, Europe, Asia Pacific, Middle East and Africa, and South and Central America)**

<https://marketpublishers.com/r/PFA6C5B4C116EN.html>

Date: March 2026

Pages: 220

Price: US\$ 4,450.00 (Single User License)

ID: PFA6C5B4C116EN

## **Abstracts**

The Power Discrete market size was valued at US\$ 14.30 billion in 2025 and is expected to reach US\$ 24.46 billion by 2034; it is estimated to record a CAGR of 6.4% during 2026–2034.

The Power Discrete market is segmented into five major regions—North America, Europe, Asia Pacific (APAC), Middle East & Africa (MEA), and South & Central America. Asia Pacific dominated the market in 2025, followed by North America and Europe, respectively. The region's leadership is supported by a strong semiconductor manufacturing ecosystem, robust consumer electronics production, and rapidly growing industrial and urban infrastructure in countries such as China, Japan, South Korea, and India. Rising demand for smartphones, laptops, wearable devices, and other portable electronics, along with government initiatives promoting domestic semiconductor production and energy-efficient technologies, further drive market growth. North America and Europe are witnessing steady expansion, supported by developments in

automotive electronics, data centers, and renewable energy infrastructure.

The consumer electronics segment represents a significant application area for Power Discrete devices. Modern electronic devices require efficient power management solutions to optimize battery life, reduce energy consumption, and support high-performance functionality. Power Discretets, including voltage regulators, power management ICs (PMICs), and battery management ICs, are widely used in smartphones, tablets, laptops, and wearable electronics. As devices become more compact and performance requirements increase, manufacturers are focusing on high-efficiency, miniaturized Power Discretets that provide precise voltage regulation, thermal management, and enhanced reliability. The growing adoption of 5G-enabled devices and IoT-enabled consumer electronics is accelerating the demand for advanced Power Discrete solutions.

The automotive and industrial equipment segment also plays a critical role in driving the Power Discrete market. In the automotive sector, Power Discretets are essential for power distribution, infotainment systems, advanced driver-assistance systems (ADAS), and electric and hybrid vehicle powertrains. In industrial applications, Power Discretets are extensively used in automation systems, motor control units, robotics, and power supplies to ensure reliable, high-efficiency operations. The adoption of Industry 4.0 technologies and smart manufacturing systems is driving the integration of advanced Power Discretets capable of handling high voltages, improving system efficiency, and enhancing operational safety.

### **Power Discrete Market Future Trend:**

A key trend shaping the Power Discrete market is the increasing emphasis on energy-efficient power management and highly integrated system solutions. The rapid growth of electric vehicles, renewable energy installations, and data-driven technologies is driving demand for Power Discretets that offer higher efficiency, lower power losses, and compact form factors. Innovations in wide bandgap semiconductor technologies, including silicon carbide (SiC) and gallium nitride (GaN), are enabling Power Discretets to operate at higher frequencies and temperatures. These advancements make them suitable for next-generation applications such as fast-charging infrastructure, smart grid systems, industrial high-power drives, and high-performance computing platforms.

Infineon Technologies AG, Semiconductor Components Industries, LLC, STMicroelectronics, Mitsubishi Electric Corporation, Vishay Intertechnology, Inc., Fuji Electric Co., Ltd., ROHM CO., LTD., Renesas Electronics Corporation, Toshiba

Electronic Devices & Storage Corporation, and Littelfuse, Inc are among the key players profiled during this market study. Several other essential market players were also studied and analyzed to get a holistic view of the global Power Discrete market and its ecosystem.

The overall Power Discrete market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the Power Discrete market size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders specializing in the Power Discrete market.

### **Reason to buy**

Saves and reduces time required for identifying the market growth, size, leading players, and segments in the global Power Discrete market.

Highlights key business priorities to assist companies in realigning their business strategies

Emphasizes key findings and recommendations that uncover emerging industry trends in the global Power Discrete market, enabling stakeholders across the value chain to craft effective long-term strategies

Develop/modify business expansion plans by analyzing substantial growth prospects in mature and emerging markets

Scrutinizes in-depth global Power Discrete market trends, along with factors driving the market, as well as those hindering it

Enhances the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution

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