

Global Wide Bandgap Power (WBG) Semiconductor Devices Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Wide Bandgap Power (WBG) Semiconductor Devices market size will reach 3,266.59 Million USD in 2025 and is projected to reach 16,820.66 Million USD by 2032, with a CAGR of 26.38% (2025-2032). Notably, the China Wide Bandgap Power (WBG) Semiconductor Devices market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Wide bandgap power (WBG) semiconductor devices refer to a class of electronic components that utilize materials with wide energy bandgaps, such as silicon carbide (SiC) or gallium nitride (GaN), in their construction. These materials offer superior electrical properties compared to traditional silicon-based semiconductors, including higher breakdown voltages, faster switching speeds, and lower on-resistance. WBG semiconductor devices are commonly used in power electronics applications where high efficiency, high power density, and high temperature operation are required. Examples of WBG semiconductor devices include Schottky diodes, metal-oxide-semiconductor field-effect transistors (MOSFETs), junction field-effect transistors (JFETs), and insulated gate bipolar transistors (IGBTs). They are utilized in various applications such as power supplies, motor drives, renewable energy systems, electric vehicles, and high-frequency RF amplifiers. WBG semiconductor devices play a crucial role in advancing the performance and efficiency of power electronic systems, leading

to energy savings, reduced system size, and enhanced reliability in diverse applications.

The major global suppliers of Wide Bandgap Power (WBG) Semiconductor Devices include Wolfspeed (Cree), Infineon Technologies, ROHM Semiconductor, STMicroelectronics, onsemi, Mitsubishi Electric, Littelfuse, Microchip Technology, GeneSiC Semiconductor, Transphorm, GaN Systems, Navitas Semiconductor, Efficient Power Conversion (EPC), etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Wide Bandgap Power (WBG) Semiconductor Devices. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major suppliers, as well as the market status and trends of different product types and applications in the global Wide Bandgap Power (WBG) Semiconductor Devices market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Wide Bandgap Power (WBG) Semiconductor Devices market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Wide Bandgap Power (WBG) Semiconductor Devices industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come

from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Suppliers of Wide Bandgap Power (WBG) Semiconductor Devices Include:

Wolfsped (Cree)

Infineon Technologies

ROHM Semiconductor

STMicroelectronics

onsemi

Mitsubishi Electric

Littelfuse

Microchip Technology

GeneSiC Semiconductor

Transphorm

GaN Systems

Navitas Semiconductor

Efficient Power Conversion (EPC)

Wide Bandgap Power (WBG) Semiconductor Devices Product Segment Include:

Power SiC Device

Power GaN Device

Wide Bandgap Power (WBG) Semiconductor Devices Product Application Include:

Photovoltaic and Energy Storage Systems

Electric Vehicle Charging Infrastructure

PFC Power Supply

Rail

Motor Drive

UPS

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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