

Global Power Discrete Semiconductor Market Growth 2024-2030

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Abstracts

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According to our LPI (LP Information) latest study, the global Power Discrete Semiconductor market size was valued at US\$ 32940 million in 2023. With growing demand in downstream market, the Power Discrete Semiconductor is forecast to a readjusted size of US\$ 52010 million by 2030 with a CAGR of 6.7% during review period.

The research report highlights the growth potential of the global Power Discrete Semiconductor market. Power Discrete Semiconductor are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Power Discrete Semiconductor. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Power Discrete Semiconductor market.

A discrete power device (or discrete component) is an electronic component with just one circuit element, either passive (resistor, capacitor, inductor, diode) or active (transistor or vacuum tube), other than an integrated circuit. It is an electronic component widely used in automotive & transportation, industrial, consumer, communication and among others. In this report, the transistor, diodes and thyristors are counted. This report is focus on the power discrete semiconductor devices and modules.

The global market for semiconductor was estimated at US\$ 579 billion in the year 2022,

is projected to US\$ 790 billion by 2029, growing at a CAGR of 6% during the forecast period. Although some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.76%, Sensor with 16.31%, and Logic with 14.46% growth, Memory declined with 12.64% year over year. The microprocessor (MPU) and microcontroller (MCU) segments will experience stagnant growth due to weak shipments and investment in notebooks, computers, and standard desktops. In the current market scenario, the growing popularity of IoT-based electronics is stimulating the need for powerful processors and controllers. Hybrid MPUs and MCUs provide real-time embedded processing and control for the topmost IoT-based applications, resulting in significant market growth. The Analog IC segment is expected to grow gradually, while demand from the networking and communications industries is limited. Few of the emerging trends in the growing demand for Analog integrated circuits include signal conversion, automotive-specific Analog applications, and power management. They drive the growing demand for discrete power devices.

Key Features:

The report on Power Discrete Semiconductor market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the Power Discrete Semiconductor market. It may include historical data, market segmentation by Type (e.g., MOSFETs, Rectifiers), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Power Discrete Semiconductor market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the Power Discrete Semiconductor market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the Power Discrete Semiconductor industry. This include advancements in Power Discrete Semiconductor technology, Power Discrete Semiconductor new entrants, Power Discrete Semiconductor new investment, and other

innovations that are shaping the future of Power Discrete Semiconductor.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the Power Discrete Semiconductor market. It includes factors influencing customer ' purchasing decisions, preferences for Power Discrete Semiconductor product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the Power Discrete Semiconductor market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Power Discrete Semiconductor market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Power Discrete Semiconductor market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Power Discrete Semiconductor industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Power Discrete Semiconductor market.

Market Segmentation:

Power Discrete Semiconductor market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

MOSFETs

Rectifiers

Discrete IGBTs

Bipolar Power Transistors

Thyristors

Standard IGBT Modules

Intelligent Power Modules

Thyristor Modules

Power Integrated Modules

Others

Segmentation by application

Automotive & Transportation

Industrial

Consumer

Communication

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

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 analyzing the company's coverage, product portfolio, its market penetration.

Infineon

Onsemi

ST Microelectronics

Mitsubishi Electric (Vincotech)

Nexperia

Vishay Intertechnology

Toshiba

Fuji Electric

Rohm

Renesas Electronics

Diodes Incorporated

Littelfuse (IXYS)

Alpha & Omega Semiconductor

SEMIKRON

Hitachi Power Semiconductor Device

Microchip

Sanken Electric

Semtech

MagnaChip

Danfoss

Bosch

Texas Instruments

KEC Corporation

Cree (Wolfspeed)

PANJIT Group

Unisonic Technologies (UTC)

Niko Semiconductor

Hangzhou Silan Microelectronics

Yangzhou Yangjie Electronic Technology

China Resources Microelectronics Limited

Jilin Sino-Microelectronics

StarPower

NCEPOWER

Hangzhou Li-On Microelectronics Corporation

Jiangsu Jiejie Microelectronics

OmniVision Technologies

Suzhou Good-Ark Electronics

Zhuzhou CRRC Times Electric

WeEn Semiconductors

Changzhou Galaxy Century Microelectronics

MacMic Science & Technolog

BYD

Hubei TECH Semiconductors

JSC Mikron

Key Questions Addressed in this Report

What is the 10-year outlook for the global Power Discrete Semiconductor market?

What factors are driving Power Discrete Semiconductor market growth, globally and by region?

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

How do Power Discrete Semiconductor market opportunities vary by end market size?

How does Power Discrete Semiconductor break out type, application?

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