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Global Power Semiconductor Discrete Devices Market Growth (Status and Outlook) 2024-2030

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Abstracts

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According to our LPI (LP Information) latest study, the global Power Semiconductor Discrete Devices market size was valued at US$ 28560 million in 2023. With growing demand in downstream market, the Power Semiconductor Discrete Devices is forecast to a readjusted size of US$ 40700 million by 2030 with a CAGR of 5.2% during review period.

The research report highlights the growth potential of the global Power Semiconductor Discrete Devices market. Power Semiconductor Discrete Devices 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 Semiconductor Discrete Devices. 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 Semiconductor Discrete Devices market.

As the Internet of Things, wearable devices, cloud computing, Big data, new energy, medical electronics, VR/AR, security electronics and other emerging applications will become the continuous growth point of the domestic semiconductor discrete device industry. As circuits become increasingly complex and diverse, the types of power devices are also constantly diversified. According to the device structure, it can be divided into diode, power transistor, thyristor, etc. The power transistor can be divided into bipolar junction transistor (BJT), junction field effect transistor (JFET), metal oxide field effect transistor (MOSFET) and Insulated-gate bipolar transistor (IGBT). The application of power semiconductor discrete devices is very extensive, and new energy

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vehicles and charging systems, rail transit, smart grids, new energy power generation, aerospace, and weapon equipment have gradually become emerging application fields of power semiconductor discrete devices.

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 12.67% 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 Semiconductor Discrete Devices 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 Semiconductor Discrete Devices market. It may include historical data, market segmentation by Type (e.g., Diode, IGBT), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Power Semiconductor Discrete Devices 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 Semiconductor Discrete Devices market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also

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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 Semiconductor Discrete Devices industry. This include advancements in Power Semiconductor Discrete Devices technology, Power Semiconductor Discrete Devices new entrants, Power Semiconductor Discrete Devices new investment, and other innovations that are shaping the future of Power Semiconductor Discrete Devices.

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

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

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Power Semiconductor Discrete Devices 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 Semiconductor Discrete Devices market.

Market Segmentation:

Power Semiconductor Discrete Devices market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and

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forecasts for consumption value by Type, and by Application in terms of value.

Segmentation by type

- Diode
- IGBT
- MOSFET
- Bipolar Transistor (BJT)
- Thyristor

Segmentation by application

- Automotive
- Industrial Control
- Consumer Electronics
- Communication
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil

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- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa
  - Egypt
  - South Africa
  - Israel
  - Turkey
  - GCC Countries

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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 Technologies

Onsemi

Fuji Electric

Toshiba Electronic Devices & Storage Corporatio

Mitsubishi Electric Corporation

STMicroelectronics

Liffelfuse

Texas Instruments

ROHM Semiconductor

Semekron

Diodes Incorporated

Littelfuse (IXYS)

Renesas Electronics Corporation

Magnachip

Vishay Intertechnology

Alpha & Omega Semiconductor

Nexperia

Kyocera

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Resources Group

Hangzhou Silan Microelectronics

Yangzhou Yangjie Electronic Technology

Jilin Sino-Microelectronics

Wuxi NCE Power

Good-Ark

Galaxy

Lion

Jiangsu JieJie Microelectronics

R&D Electronics

Oriental Semiconductor

Shanghai Prisemi Electronics

Microchip

Sanken Electric

Semtech

Danfoss

Bosch

KEC

Wolfspeed

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PANJIT Group

Unisonic Technologies

Niko Semiconductor

BYD

JSC Mikron

StarPower

OmniVision Technologies

Zhuzhou CRRC Times Electric

WeEn Semiconductors

MacMic Science & Technolog

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