

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?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Power Discrete Semiconductor Annual Sales 2019-2030
- 2.1.2 World Current & Future Analysis for Power Discrete Semiconductor by Geographic Region, 2019, 2023 & 2030
- 2.1.3 World Current & Future Analysis for Power Discrete Semiconductor by Country/Region, 2019, 2023 & 2030

2.2 Power Discrete Semiconductor Segment by Type

- 2.2.1 MOSFETs
- 2.2.2 Rectifiers
- 2.2.3 Discrete IGBTs
- 2.2.4 Bipolar Power Transistors
- 2.2.5 Thyristors
- 2.2.6 Standard IGBT Modules
- 2.2.7 Intelligent Power Modules
- 2.2.8 Thyristor Modules
- 2.2.9 Power Integrated Modules
- 2.2.10 Others

2.3 Power Discrete Semiconductor Sales by Type

- 2.3.1 Global Power Discrete Semiconductor Sales Market Share by Type (2019-2024)
- 2.3.2 Global Power Discrete Semiconductor Revenue and Market Share by Type (2019-2024)
- 2.3.3 Global Power Discrete Semiconductor Sale Price by Type (2019-2024)

2.4 Power Discrete Semiconductor Segment by Application

- 2.4.1 Automotive & Transportation

2.4.2 Industrial

2.4.3 Consumer

2.4.4 Communication

2.4.5 Others

2.5 Power Discrete Semiconductor Sales by Application

2.5.1 Global Power Discrete Semiconductor Sale Market Share by Application
(2019-2024)

2.5.2 Global Power Discrete Semiconductor Revenue and Market Share by Application
(2019-2024)

2.5.3 Global Power Discrete Semiconductor Sale Price by Application (2019-2024)

3 GLOBAL POWER DISCRETE SEMICONDUCTOR BY COMPANY

3.1 Global Power Discrete Semiconductor Breakdown Data by Company

3.1.1 Global Power Discrete Semiconductor Annual Sales by Company (2019-2024)

3.1.2 Global Power Discrete Semiconductor Sales Market Share by Company
(2019-2024)

3.2 Global Power Discrete Semiconductor Annual Revenue by Company (2019-2024)

3.2.1 Global Power Discrete Semiconductor Revenue by Company (2019-2024)

3.2.2 Global Power Discrete Semiconductor Revenue Market Share by Company
(2019-2024)

3.3 Global Power Discrete Semiconductor Sale Price by Company

3.4 Key Manufacturers Power Discrete Semiconductor Producing Area Distribution,
Sales Area, Product Type

3.4.1 Key Manufacturers Power Discrete Semiconductor Product Location Distribution

3.4.2 Players Power Discrete Semiconductor Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

3.6 New Products and Potential Entrants

3.7 Mergers & Acquisitions, Expansion

4 WORLD HISTORIC REVIEW FOR POWER DISCRETE SEMICONDUCTOR BY GEOGRAPHIC REGION

4.1 World Historic Power Discrete Semiconductor Market Size by Geographic Region
(2019-2024)

4.1.1 Global Power Discrete Semiconductor Annual Sales by Geographic Region
(2019-2024)

4.1.2 Global Power Discrete Semiconductor Annual Revenue by Geographic Region (2019-2024)

4.2 World Historic Power Discrete Semiconductor Market Size by Country/Region (2019-2024)

4.2.1 Global Power Discrete Semiconductor Annual Sales by Country/Region (2019-2024)

4.2.2 Global Power Discrete Semiconductor Annual Revenue by Country/Region (2019-2024)

4.3 Americas Power Discrete Semiconductor Sales Growth

4.4 APAC Power Discrete Semiconductor Sales Growth

4.5 Europe Power Discrete Semiconductor Sales Growth

4.6 Middle East & Africa Power Discrete Semiconductor Sales Growth

5 AMERICAS

5.1 Americas Power Discrete Semiconductor Sales by Country

5.1.1 Americas Power Discrete Semiconductor Sales by Country (2019-2024)

5.1.2 Americas Power Discrete Semiconductor Revenue by Country (2019-2024)

5.2 Americas Power Discrete Semiconductor Sales by Type

5.3 Americas Power Discrete Semiconductor Sales by Application

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Power Discrete Semiconductor Sales by Region

6.1.1 APAC Power Discrete Semiconductor Sales by Region (2019-2024)

6.1.2 APAC Power Discrete Semiconductor Revenue by Region (2019-2024)

6.2 APAC Power Discrete Semiconductor Sales by Type

6.3 APAC Power Discrete Semiconductor Sales by Application

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Power Discrete Semiconductor by Country

7.1.1 Europe Power Discrete Semiconductor Sales by Country (2019-2024)

7.1.2 Europe Power Discrete Semiconductor Revenue by Country (2019-2024)

7.2 Europe Power Discrete Semiconductor Sales by Type

7.3 Europe Power Discrete Semiconductor Sales by Application

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Power Discrete Semiconductor by Country

8.1.1 Middle East & Africa Power Discrete Semiconductor Sales by Country (2019-2024)

8.1.2 Middle East & Africa Power Discrete Semiconductor Revenue by Country (2019-2024)

8.2 Middle East & Africa Power Discrete Semiconductor Sales by Type

8.3 Middle East & Africa Power Discrete Semiconductor Sales by Application

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Power Discrete Semiconductor

10.3 Manufacturing Process Analysis of Power Discrete Semiconductor

10.4 Industry Chain Structure of Power Discrete Semiconductor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Power Discrete Semiconductor Distributors

11.3 Power Discrete Semiconductor Customer

12 WORLD FORECAST REVIEW FOR POWER DISCRETE SEMICONDUCTOR BY GEOGRAPHIC REGION

12.1 Global Power Discrete Semiconductor Market Size Forecast by Region

12.1.1 Global Power Discrete Semiconductor Forecast by Region (2025-2030)

12.1.2 Global Power Discrete Semiconductor Annual Revenue Forecast by Region (2025-2030)

12.2 Americas Forecast by Country

12.3 APAC Forecast by Region

12.4 Europe Forecast by Country

12.5 Middle East & Africa Forecast by Country

12.6 Global Power Discrete Semiconductor Forecast by Type

12.7 Global Power Discrete Semiconductor Forecast by Application

13 KEY PLAYERS ANALYSIS

13.1 Infineon

13.1.1 Infineon Company Information

13.1.2 Infineon Power Discrete Semiconductor Product Portfolios and Specifications

13.1.3 Infineon Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)

13.1.4 Infineon Main Business Overview

13.1.5 Infineon Latest Developments

13.2 Onsemi

13.2.1 Onsemi Company Information

13.2.2 Onsemi Power Discrete Semiconductor Product Portfolios and Specifications

13.2.3 Onsemi Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)

- 13.2.4 Onsemi Main Business Overview
- 13.2.5 Onsemi Latest Developments
- 13.3 ST Microelectronics
 - 13.3.1 ST Microelectronics Company Information
 - 13.3.2 ST Microelectronics Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.3.3 ST Microelectronics Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.3.4 ST Microelectronics Main Business Overview
 - 13.3.5 ST Microelectronics Latest Developments
- 13.4 Mitsubishi Electric (Vincotech)
 - 13.4.1 Mitsubishi Electric (Vincotech) Company Information
 - 13.4.2 Mitsubishi Electric (Vincotech) Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.4.3 Mitsubishi Electric (Vincotech) Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.4.4 Mitsubishi Electric (Vincotech) Main Business Overview
 - 13.4.5 Mitsubishi Electric (Vincotech) Latest Developments
- 13.5 Nexperia
 - 13.5.1 Nexperia Company Information
 - 13.5.2 Nexperia Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.5.3 Nexperia Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.5.4 Nexperia Main Business Overview
 - 13.5.5 Nexperia Latest Developments
- 13.6 Vishay Intertechnology
 - 13.6.1 Vishay Intertechnology Company Information
 - 13.6.2 Vishay Intertechnology Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.6.3 Vishay Intertechnology Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.6.4 Vishay Intertechnology Main Business Overview
 - 13.6.5 Vishay Intertechnology Latest Developments
- 13.7 Toshiba
 - 13.7.1 Toshiba Company Information
 - 13.7.2 Toshiba Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.7.3 Toshiba Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.7.4 Toshiba Main Business Overview

- 13.7.5 Toshiba Latest Developments
- 13.8 Fuji Electric
 - 13.8.1 Fuji Electric Company Information
 - 13.8.2 Fuji Electric Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.8.3 Fuji Electric Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.8.4 Fuji Electric Main Business Overview
 - 13.8.5 Fuji Electric Latest Developments
- 13.9 Rohm
 - 13.9.1 Rohm Company Information
 - 13.9.2 Rohm Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.9.3 Rohm Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.9.4 Rohm Main Business Overview
 - 13.9.5 Rohm Latest Developments
- 13.10 Renesas Electronics
 - 13.10.1 Renesas Electronics Company Information
 - 13.10.2 Renesas Electronics Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.10.3 Renesas Electronics Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.10.4 Renesas Electronics Main Business Overview
 - 13.10.5 Renesas Electronics Latest Developments
- 13.11 Diodes Incorporated
 - 13.11.1 Diodes Incorporated Company Information
 - 13.11.2 Diodes Incorporated Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.11.3 Diodes Incorporated Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.11.4 Diodes Incorporated Main Business Overview
 - 13.11.5 Diodes Incorporated Latest Developments
- 13.12 Littelfuse (IXYS)
 - 13.12.1 Littelfuse (IXYS) Company Information
 - 13.12.2 Littelfuse (IXYS) Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.12.3 Littelfuse (IXYS) Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.12.4 Littelfuse (IXYS) Main Business Overview

- 13.12.5 Littelfuse (IXYS) Latest Developments
- 13.13 Alpha & Omega Semiconductor
 - 13.13.1 Alpha & Omega Semiconductor Company Information
 - 13.13.2 Alpha & Omega Semiconductor Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.13.3 Alpha & Omega Semiconductor Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.13.4 Alpha & Omega Semiconductor Main Business Overview
 - 13.13.5 Alpha & Omega Semiconductor Latest Developments
- 13.14 SEMIKRON
 - 13.14.1 SEMIKRON Company Information
 - 13.14.2 SEMIKRON Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.14.3 SEMIKRON Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.14.4 SEMIKRON Main Business Overview
 - 13.14.5 SEMIKRON Latest Developments
- 13.15 Hitachi Power Semiconductor Device
 - 13.15.1 Hitachi Power Semiconductor Device Company Information
 - 13.15.2 Hitachi Power Semiconductor Device Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.15.3 Hitachi Power Semiconductor Device Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.15.4 Hitachi Power Semiconductor Device Main Business Overview
 - 13.15.5 Hitachi Power Semiconductor Device Latest Developments
- 13.16 Microchip
 - 13.16.1 Microchip Company Information
 - 13.16.2 Microchip Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.16.3 Microchip Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.16.4 Microchip Main Business Overview
 - 13.16.5 Microchip Latest Developments
- 13.17 Sanken Electric
 - 13.17.1 Sanken Electric Company Information
 - 13.17.2 Sanken Electric Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.17.3 Sanken Electric Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)

- 13.17.4 Sanken Electric Main Business Overview
- 13.17.5 Sanken Electric Latest Developments
- 13.18 Semtech
 - 13.18.1 Semtech Company Information
 - 13.18.2 Semtech Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.18.3 Semtech Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.18.4 Semtech Main Business Overview
 - 13.18.5 Semtech Latest Developments
- 13.19 MagnaChip
 - 13.19.1 MagnaChip Company Information
 - 13.19.2 MagnaChip Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.19.3 MagnaChip Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.19.4 MagnaChip Main Business Overview
 - 13.19.5 MagnaChip Latest Developments
- 13.20 Danfoss
 - 13.20.1 Danfoss Company Information
 - 13.20.2 Danfoss Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.20.3 Danfoss Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.20.4 Danfoss Main Business Overview
 - 13.20.5 Danfoss Latest Developments
- 13.21 Bosch
 - 13.21.1 Bosch Company Information
 - 13.21.2 Bosch Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.21.3 Bosch Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.21.4 Bosch Main Business Overview
 - 13.21.5 Bosch Latest Developments
- 13.22 Texas Instruments
 - 13.22.1 Texas Instruments Company Information
 - 13.22.2 Texas Instruments Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.22.3 Texas Instruments Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.22.4 Texas Instruments Main Business Overview
 - 13.22.5 Texas Instruments Latest Developments

13.23 KEC Corporation

13.23.1 KEC Corporation Company Information

13.23.2 KEC Corporation Power Discrete Semiconductor Product Portfolios and Specifications

13.23.3 KEC Corporation Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)

13.23.4 KEC Corporation Main Business Overview

13.23.5 KEC Corporation Latest Developments

13.24 Cree (Wolfspeed)

13.24.1 Cree (Wolfspeed) Company Information

13.24.2 Cree (Wolfspeed) Power Discrete Semiconductor Product Portfolios and Specifications

13.24.3 Cree (Wolfspeed) Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)

13.24.4 Cree (Wolfspeed) Main Business Overview

13.24.5 Cree (Wolfspeed) Latest Developments

13.25 PANJIT Group

13.25.1 PANJIT Group Company Information

13.25.2 PANJIT Group Power Discrete Semiconductor Product Portfolios and Specifications

13.25.3 PANJIT Group Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)

13.25.4 PANJIT Group Main Business Overview

13.25.5 PANJIT Group Latest Developments

13.26 Unisonic Technologies (UTC)

13.26.1 Unisonic Technologies (UTC) Company Information

13.26.2 Unisonic Technologies (UTC) Power Discrete Semiconductor Product Portfolios and Specifications

13.26.3 Unisonic Technologies (UTC) Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)

13.26.4 Unisonic Technologies (UTC) Main Business Overview

13.26.5 Unisonic Technologies (UTC) Latest Developments

13.27 Niko Semiconductor

13.27.1 Niko Semiconductor Company Information

13.27.2 Niko Semiconductor Power Discrete Semiconductor Product Portfolios and Specifications

13.27.3 Niko Semiconductor Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)

13.27.4 Niko Semiconductor Main Business Overview

- 13.27.5 Niko Semiconductor Latest Developments
- 13.28 Hangzhou Silan Microelectronics
 - 13.28.1 Hangzhou Silan Microelectronics Company Information
 - 13.28.2 Hangzhou Silan Microelectronics Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.28.3 Hangzhou Silan Microelectronics Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.28.4 Hangzhou Silan Microelectronics Main Business Overview
 - 13.28.5 Hangzhou Silan Microelectronics Latest Developments
- 13.29 Yangzhou Yangjie Electronic Technology
 - 13.29.1 Yangzhou Yangjie Electronic Technology Company Information
 - 13.29.2 Yangzhou Yangjie Electronic Technology Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.29.3 Yangzhou Yangjie Electronic Technology Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.29.4 Yangzhou Yangjie Electronic Technology Main Business Overview
 - 13.29.5 Yangzhou Yangjie Electronic Technology Latest Developments
- 13.30 China Resources Microelectronics Limited
 - 13.30.1 China Resources Microelectronics Limited Company Information
 - 13.30.2 China Resources Microelectronics Limited Power Discrete Semiconductor Product Portfolios and Specifications
 - 13.30.3 China Resources Microelectronics Limited Power Discrete Semiconductor Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.30.4 China Resources Microelectronics Limited Main Business Overview
 - 13.30.5 China Resources Microelectronics Limited Latest Developments
- 13.31 Jilin Sino-Microelectronics
- 13.32 StarPower
- 13.33 NCEPOWER
- 13.34 Hangzhou Li-On Microelectronics Corporation
- 13.35 Jiangsu Jiejie Microelectronics
- 13.36 OmniVision Technologies
- 13.37 Suzhou Good-Ark Electronics
- 13.38 Zhuzhou CRRC Times Electric
- 13.39 WeEn Semiconductors
- 13.40 Changzhou Galaxy Century Microelectronics
- 13.41 MacMic Science & Technolog
- 13.42 BYD
- 13.43 Hubei TECH Semiconductors
- 13.44 JSC Mikron

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Power Discrete Semiconductor Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)

Table 2. Power Discrete Semiconductor Annual Sales CAGR by Country/Region (2019, 2023 & 2030) & (\$ millions)

Table 3. Major Players of MOSFETs

Table 4. Major Players of Rectifiers

Table 5. Major Players of Discrete IGBTs

Table 6. Major Players of Bipolar Power Transistors

Table 7. Major Players of Thyristors

Table 8. Major Players of Standard IGBT Modules

Table 9. Major Players of Intelligent Power Modules

Table 10. Major Players of Thyristor Modules

Table 11. Major Players of Power Integrated Modules

Table 12. Major Players of Others

Table 13. Global Power Discrete Semiconductor Sales by Type (2019-2024) & (K Units)

Table 14. Global Power Discrete Semiconductor Sales Market Share by Type (2019-2024)

Table 15. Global Power Discrete Semiconductor Revenue by Type (2019-2024) & (\$ million)

Table 16. Global Power Discrete Semiconductor Revenue Market Share by Type (2019-2024)

Table 17. Global Power Discrete Semiconductor Sale Price by Type (2019-2024) & (USD/Unit)

Table 18. Global Power Discrete Semiconductor Sales by Application (2019-2024) & (K Units)

Table 19. Global Power Discrete Semiconductor Sales Market Share by Application (2019-2024)

Table 20. Global Power Discrete Semiconductor Revenue by Application (2019-2024)

Table 21. Global Power Discrete Semiconductor Revenue Market Share by Application (2019-2024)

Table 22. Global Power Discrete Semiconductor Sale Price by Application (2019-2024) & (USD/Unit)

Table 23. Global Power Discrete Semiconductor Sales by Company (2019-2024) & (K Units)

Table 24. Global Power Discrete Semiconductor Sales Market Share by Company

(2019-2024)

Table 25. Global Power Discrete Semiconductor Revenue by Company (2019-2024) (\$ Millions)

Table 26. Global Power Discrete Semiconductor Revenue Market Share by Company (2019-2024)

Table 27. Global Power Discrete Semiconductor Sale Price by Company (2019-2024) & (USD/Unit)

Table 28. Key Manufacturers Power Discrete Semiconductor Producing Area Distribution and Sales Area

Table 29. Players Power Discrete Semiconductor Products Offered

Table 30. Power Discrete Semiconductor Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

Table 31. New Products and Potential Entrants

Table 32. Mergers & Acquisitions, Expansion

Table 33. Global Power Discrete Semiconductor Sales by Geographic Region (2019-2024) & (K Units)

Table 34. Global Power Discrete Semiconductor Sales Market Share Geographic Region (2019-2024)

Table 35. Global Power Discrete Semiconductor Revenue by Geographic Region (2019-2024) & (\$ millions)

Table 36. Global Power Discrete Semiconductor Revenue Market Share by Geographic Region (2019-2024)

Table 37. Global Power Discrete Semiconductor Sales by Country/Region (2019-2024) & (K Units)

Table 38. Global Power Discrete Semiconductor Sales Market Share by Country/Region (2019-2024)

Table 39. Global Power Discrete Semiconductor Revenue by Country/Region (2019-2024) & (\$ millions)

Table 40. Global Power Discrete Semiconductor Revenue Market Share by Country/Region (2019-2024)

Table 41. Americas Power Discrete Semiconductor Sales by Country (2019-2024) & (K Units)

Table 42. Americas Power Discrete Semiconductor Sales Market Share by Country (2019-2024)

Table 43. Americas Power Discrete Semiconductor Revenue by Country (2019-2024) & (\$ Millions)

Table 44. Americas Power Discrete Semiconductor Revenue Market Share by Country (2019-2024)

Table 45. Americas Power Discrete Semiconductor Sales by Type (2019-2024) & (K

Units)

Table 46. Americas Power Discrete Semiconductor Sales by Application (2019-2024) & (K Units)

Table 47. APAC Power Discrete Semiconductor Sales by Region (2019-2024) & (K Units)

Table 48. APAC Power Discrete Semiconductor Sales Market Share by Region (2019-2024)

Table 49. APAC Power Discrete Semiconductor Revenue by Region (2019-2024) & (\$ Millions)

Table 50. APAC Power Discrete Semiconductor Revenue Market Share by Region (2019-2024)

Table 51. APAC Power Discrete Semiconductor Sales by Type (2019-2024) & (K Units)

Table 52. APAC Power Discrete Semiconductor Sales by Application (2019-2024) & (K Units)

Table 53. Europe Power Discrete Semiconductor Sales by Country (2019-2024) & (K Units)

Table 54. Europe Power Discrete Semiconductor Sales Market Share by Country (2019-2024)

Table 55. Europe Power Discrete Semiconductor Revenue by Country (2019-2024) & (\$ Millions)

Table 56. Europe Power Discrete Semiconductor Revenue Market Share by Country (2019-2024)

Table 57. Europe Power Discrete Semiconductor Sales by Type (2019-2024) & (K Units)

Table 58. Europe Power Discrete Semiconductor Sales by Application (2019-2024) & (K Units)

Table 59. Middle East & Africa Power Discrete Semiconductor Sales by Country (2019-2024) & (K Units)

Table 60. Middle East & Africa Power Discrete Semiconductor Sales Market Share by Country (2019-2024)

Table 61. Middle East & Africa Power Discrete Semiconductor Revenue by Country (2019-2024) & (\$ Millions)

Table 62. Middle East & Africa Power Discrete Semiconductor Revenue Market Share by Country (2019-2024)

Table 63. Middle East & Africa Power Discrete Semiconductor Sales by Type (2019-2024) & (K Units)

Table 64. Middle East & Africa Power Discrete Semiconductor Sales by Application (2019-2024) & (K Units)

Table 65. Key Market Drivers & Growth Opportunities of Power Discrete Semiconductor

Table 66. Key Market Challenges & Risks of Power Discrete Semiconductor
Table 67. Key Industry Trends of Power Discrete Semiconductor
Table 68. Power Discrete Semiconductor Raw Material
Table 69. Key Suppliers of Raw Materials
Table 70. Power Discrete Semiconductor Distributors List
Table 71. Power Discrete Semiconductor Customer List
Table 72. Global Power Discrete Semiconductor Sales Forecast by Region (2025-2030) & (K Units)
Table 73. Global Power Discrete Semiconductor Revenue Forecast by Region (2025-2030) & (\$ millions)
Table 74. Americas Power Discrete Semiconductor Sales Forecast by Country (2025-2030) & (K Units)
Table 75. Americas Power Discrete Semiconductor Revenue Forecast by Country (2025-2030) & (\$ millions)
Table 76. APAC Power Discrete Semiconductor Sales Forecast by Region (2025-2030) & (K Units)
Table 77. APAC Power Discrete Semiconductor Revenue Forecast by Region (2025-2030) & (\$ millions)
Table 78. Europe Power Discrete Semiconductor Sales Forecast by Country (2025-2030) & (K Units)
Table 79. Europe Power Discrete Semiconductor Revenue Forecast by Country (2025-2030) & (\$ millions)
Table 80. Middle East & Africa Power Discrete Semiconductor Sales Forecast by Country (2025-2030) & (K Units)
Table 81. Middle East & Africa Power Discrete Semiconductor Revenue Forecast by Country (2025-2030) & (\$ millions)
Table 82. Global Power Discrete Semiconductor Sales Forecast by Type (2025-2030) & (K Units)
Table 83. Global Power Discrete Semiconductor Revenue Forecast by Type (2025-2030) & (\$ Millions)
Table 84. Global Power Discrete Semiconductor Sales Forecast by Application (2025-2030) & (K Units)
Table 85. Global Power Discrete Semiconductor Revenue Forecast by Application (2025-2030) & (\$ Millions)
Table 86. Infineon Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors
Table 87. Infineon Power Discrete Semiconductor Product Portfolios and Specifications
Table 88. Infineon Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 89. Infineon Main Business

Table 90. Infineon Latest Developments

Table 91. Onsemi Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 92. Onsemi Power Discrete Semiconductor Product Portfolios and Specifications

Table 93. Onsemi Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 94. Onsemi Main Business

Table 95. Onsemi Latest Developments

Table 96. ST Microelectronics Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 97. ST Microelectronics Power Discrete Semiconductor Product Portfolios and Specifications

Table 98. ST Microelectronics Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 99. ST Microelectronics Main Business

Table 100. ST Microelectronics Latest Developments

Table 101. Mitsubishi Electric (Vincotech) Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 102. Mitsubishi Electric (Vincotech) Power Discrete Semiconductor Product Portfolios and Specifications

Table 103. Mitsubishi Electric (Vincotech) Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 104. Mitsubishi Electric (Vincotech) Main Business

Table 105. Mitsubishi Electric (Vincotech) Latest Developments

Table 106. Nexperia Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 107. Nexperia Power Discrete Semiconductor Product Portfolios and Specifications

Table 108. Nexperia Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 109. Nexperia Main Business

Table 110. Nexperia Latest Developments

Table 111. Vishay Intertechnology Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 112. Vishay Intertechnology Power Discrete Semiconductor Product Portfolios and Specifications

Table 113. Vishay Intertechnology Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 114. Vishay Intertechnology Main Business

Table 115. Vishay Intertechnology Latest Developments

Table 116. Toshiba Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 117. Toshiba Power Discrete Semiconductor Product Portfolios and Specifications

Table 118. Toshiba Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 119. Toshiba Main Business

Table 120. Toshiba Latest Developments

Table 121. Fuji Electric Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 122. Fuji Electric Power Discrete Semiconductor Product Portfolios and Specifications

Table 123. Fuji Electric Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 124. Fuji Electric Main Business

Table 125. Fuji Electric Latest Developments

Table 126. Rohm Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 127. Rohm Power Discrete Semiconductor Product Portfolios and Specifications

Table 128. Rohm Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 129. Rohm Main Business

Table 130. Rohm Latest Developments

Table 131. Renesas Electronics Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 132. Renesas Electronics Power Discrete Semiconductor Product Portfolios and Specifications

Table 133. Renesas Electronics Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 134. Renesas Electronics Main Business

Table 135. Renesas Electronics Latest Developments

Table 136. Diodes Incorporated Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 137. Diodes Incorporated Power Discrete Semiconductor Product Portfolios and Specifications

Table 138. Diodes Incorporated Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 139. Diodes Incorporated Main Business

Table 140. Diodes Incorporated Latest Developments

Table 141. Littelfuse (IXYS) Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 142. Littelfuse (IXYS) Power Discrete Semiconductor Product Portfolios and Specifications

Table 143. Littelfuse (IXYS) Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 144. Littelfuse (IXYS) Main Business

Table 145. Littelfuse (IXYS) Latest Developments

Table 146. Alpha & Omega Semiconductor Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 147. Alpha & Omega Semiconductor Power Discrete Semiconductor Product Portfolios and Specifications

Table 148. Alpha & Omega Semiconductor Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 149. Alpha & Omega Semiconductor Main Business

Table 150. Alpha & Omega Semiconductor Latest Developments

Table 151. SEMIKRON Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 152. SEMIKRON Power Discrete Semiconductor Product Portfolios and Specifications

Table 153. SEMIKRON Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 154. SEMIKRON Main Business

Table 155. SEMIKRON Latest Developments

Table 156. Hitachi Power Semiconductor Device Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 157. Hitachi Power Semiconductor Device Power Discrete Semiconductor Product Portfolios and Specifications

Table 158. Hitachi Power Semiconductor Device Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 159. Hitachi Power Semiconductor Device Main Business

Table 160. Hitachi Power Semiconductor Device Latest Developments

Table 161. Microchip Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 162. Microchip Power Discrete Semiconductor Product Portfolios and Specifications

Table 163. Microchip Power Discrete Semiconductor Sales (K Units), Revenue (\$

Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 164. Microchip Main Business

Table 165. Microchip Latest Developments

Table 166. Sanken Electric Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 167. Sanken Electric Power Discrete Semiconductor Product Portfolios and Specifications

Table 168. Sanken Electric Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 169. Sanken Electric Main Business

Table 170. Sanken Electric Latest Developments

Table 171. Semtech Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 172. Semtech Power Discrete Semiconductor Product Portfolios and Specifications

Table 173. Semtech Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 174. Semtech Main Business

Table 175. Semtech Latest Developments

Table 176. MagnaChip Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 177. MagnaChip Power Discrete Semiconductor Product Portfolios and Specifications

Table 178. MagnaChip Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 179. MagnaChip Main Business

Table 180. MagnaChip Latest Developments

Table 181. Danfoss Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 182. Danfoss Power Discrete Semiconductor Product Portfolios and Specifications

Table 183. Danfoss Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 184. Danfoss Main Business

Table 185. Danfoss Latest Developments

Table 186. Bosch Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 187. Bosch Power Discrete Semiconductor Product Portfolios and Specifications

Table 188. Bosch Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million),

Price (USD/Unit) and Gross Margin (2019-2024)

Table 189. Bosch Main Business

Table 190. Bosch Latest Developments

Table 191. Texas Instruments Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 192. Texas Instruments Power Discrete Semiconductor Product Portfolios and Specifications

Table 193. Texas Instruments Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 194. Texas Instruments Main Business

Table 195. Texas Instruments Latest Developments

Table 196. KEC Corporation Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 197. KEC Corporation Power Discrete Semiconductor Product Portfolios and Specifications

Table 198. KEC Corporation Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 199. KEC Corporation Main Business

Table 200. KEC Corporation Latest Developments

Table 201. Cree (Wolfspeed) Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 202. Cree (Wolfspeed) Power Discrete Semiconductor Product Portfolios and Specifications

Table 203. Cree (Wolfspeed) Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 204. Cree (Wolfspeed) Main Business

Table 205. Cree (Wolfspeed) Latest Developments

Table 206. PANJIT Group Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 207. PANJIT Group Power Discrete Semiconductor Product Portfolios and Specifications

Table 208. PANJIT Group Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 209. PANJIT Group Main Business

Table 210. PANJIT Group Latest Developments

Table 211. Unisonic Technologies (UTC) Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 212. Unisonic Technologies (UTC) Power Discrete Semiconductor Product Portfolios and Specifications

Table 213. Unisonic Technologies (UTC) Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 214. Unisonic Technologies (UTC) Main Business

Table 215. Unisonic Technologies (UTC) Latest Developments

Table 216. Niko Semiconductor Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 217. Niko Semiconductor Power Discrete Semiconductor Product Portfolios and Specifications

Table 218. Niko Semiconductor Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 219. Niko Semiconductor Main Business

Table 220. Niko Semiconductor Latest Developments

Table 221. Hangzhou Silan Microelectronics Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 222. Hangzhou Silan Microelectronics Power Discrete Semiconductor Product Portfolios and Specifications

Table 223. Hangzhou Silan Microelectronics Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 224. Hangzhou Silan Microelectronics Main Business

Table 225. Hangzhou Silan Microelectronics Latest Developments

Table 226. Yangzhou Yangjie Electronic Technology Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 227. Yangzhou Yangjie Electronic Technology Power Discrete Semiconductor Product Portfolios and Specifications

Table 228. Yangzhou Yangjie Electronic Technology Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 229. Yangzhou Yangjie Electronic Technology Main Business

Table 230. Yangzhou Yangjie Electronic Technology Latest Developments

Table 231. China Resources Microelectronics Limited Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 232. China Resources Microelectronics Limited Power Discrete Semiconductor Product Portfolios and Specifications

Table 233. China Resources Microelectronics Limited Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 234. China Resources Microelectronics Limited Main Business

Table 235. China Resources Microelectronics Limited Latest Developments

Table 236. Jilin Sino-Microelectronics Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 237. Jilin Sino-Microelectronics Power Discrete Semiconductor Product Portfolios

and Specifications

Table 238. Jilin Sino-Microelectronics Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 239. Jilin Sino-Microelectronics Main Business

Table 240. Jilin Sino-Microelectronics Latest Developments

Table 241. StarPower Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 242. StarPower Power Discrete Semiconductor Product Portfolios and Specifications

Table 243. StarPower Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 244. StarPower Main Business

Table 245. StarPower Latest Developments

Table 246. NCEPOWER Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 247. NCEPOWER Power Discrete Semiconductor Product Portfolios and Specifications

Table 248. NCEPOWER Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 249. NCEPOWER Main Business

Table 250. NCEPOWER Latest Developments

Table 251. Hangzhou Li-On Microelectronics Corporation Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 252. Hangzhou Li-On Microelectronics Corporation Power Discrete Semiconductor Product Portfolios and Specifications

Table 253. Hangzhou Li-On Microelectronics Corporation Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 254. Hangzhou Li-On Microelectronics Corporation Main Business

Table 255. Hangzhou Li-On Microelectronics Corporation Latest Developments

Table 256. Jiangsu Jiejie Microelectronics Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 257. Jiangsu Jiejie Microelectronics Power Discrete Semiconductor Product Portfolios and Specifications

Table 258. Jiangsu Jiejie Microelectronics Power Discrete Semiconductor Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 259. Jiangsu Jiejie Microelectronics Main Business

Table 260. Jiangsu Jiejie Microelectronics Latest Developments

Table 261. OmniVision Technologies Basic Information, Power Discrete Semiconductor

Manufacturing Base, Sales Area and Its Competitors

Table 262. Suzhou Good-Ark Electronics Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 263. Zhuzhou CRRC Times Electric Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 264. WeEn Semiconductors Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 265. Changzhou Galaxy Century Microelectronics Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 266. MacMic Science & Technolog Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 267. BYD Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 268. Hubei TECH Semiconductors Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

Table 269. JSC Mikron Basic Information, Power Discrete Semiconductor Manufacturing Base, Sales Area and Its Competitors

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Power Discrete Semiconductor
- Figure 2. Power Discrete Semiconductor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Power Discrete Semiconductor Sales Growth Rate 2019-2030 (K Units)
- Figure 7. Global Power Discrete Semiconductor Revenue Growth Rate 2019-2030 (\$ Millions)
- Figure 8. Power Discrete Semiconductor Sales by Region (2019, 2023 & 2030) & (\$ Millions)
- Figure 9. Product Picture of MOSFETs
- Figure 10. Product Picture of Rectifiers
- Figure 11. Product Picture of Discrete IGBTs
- Figure 12. Product Picture of Bipolar Power Transistors
- Figure 13. Product Picture of Thyristors
- Figure 14. Product Picture of Standard IGBT Modules
- Figure 15. Product Picture of Intelligent Power Modules
- Figure 16. Product Picture of Thyristor Modules
- Figure 17. Product Picture of Power Integrated Modules
- Figure 18. Product Picture of Others
- Figure 19. Global Power Discrete Semiconductor Sales Market Share by Type in 2023
- Figure 20. Global Power Discrete Semiconductor Revenue Market Share by Type (2019-2024)
- Figure 21. Power Discrete Semiconductor Consumed in Automotive & Transportation
- Figure 22. Global Power Discrete Semiconductor Market: Automotive & Transportation (2019-2024) & (K Units)
- Figure 23. Power Discrete Semiconductor Consumed in Industrial
- Figure 24. Global Power Discrete Semiconductor Market: Industrial (2019-2024) & (K Units)
- Figure 25. Power Discrete Semiconductor Consumed in Consumer
- Figure 26. Global Power Discrete Semiconductor Market: Consumer (2019-2024) & (K Units)
- Figure 27. Power Discrete Semiconductor Consumed in Communication
- Figure 28. Global Power Discrete Semiconductor Market: Communication (2019-2024)

& (K Units)

Figure 29. Power Discrete Semiconductor Consumed in Others

Figure 30. Global Power Discrete Semiconductor Market: Others (2019-2024) & (K Units)

Figure 31. Global Power Discrete Semiconductor Sales Market Share by Application (2023)

Figure 32. Global Power Discrete Semiconductor Revenue Market Share by Application in 2023

Figure 33. Power Discrete Semiconductor Sales Market by Company in 2023 (K Units)

Figure 34. Global Power Discrete Semiconductor Sales Market Share by Company in 2023

Figure 35. Power Discrete Semiconductor Revenue Market by Company in 2023 (\$ Million)

Figure 36. Global Power Discrete Semiconductor Revenue Market Share by Company in 2023

Figure 37. Global Power Discrete Semiconductor Sales Market Share by Geographic Region (2019-2024)

Figure 38. Global Power Discrete Semiconductor Revenue Market Share by Geographic Region in 2023

Figure 39. Americas Power Discrete Semiconductor Sales 2019-2024 (K Units)

Figure 40. Americas Power Discrete Semiconductor Revenue 2019-2024 (\$ Millions)

Figure 41. APAC Power Discrete Semiconductor Sales 2019-2024 (K Units)

Figure 42. APAC Power Discrete Semiconductor Revenue 2019-2024 (\$ Millions)

Figure 43. Europe Power Discrete Semiconductor Sales 2019-2024 (K Units)

Figure 44. Europe Power Discrete Semiconductor Revenue 2019-2024 (\$ Millions)

Figure 45. Middle East & Africa Power Discrete Semiconductor Sales 2019-2024 (K Units)

Figure 46. Middle East & Africa Power Discrete Semiconductor Revenue 2019-2024 (\$ Millions)

Figure 47. Americas Power Discrete Semiconductor Sales Market Share by Country in 2023

Figure 48. Americas Power Discrete Semiconductor Revenue Market Share by Country in 2023

Figure 49. Americas Power Discrete Semiconductor Sales Market Share by Type (2019-2024)

Figure 50. Americas Power Discrete Semiconductor Sales Market Share by Application (2019-2024)

Figure 51. United States Power Discrete Semiconductor Revenue Growth 2019-2024 (\$ Millions)

Figure 52. Canada Power Discrete Semiconductor Revenue Growth 2019-2024 (\$ Millions)

Figure 53. Mexico Power Discrete Semiconductor Revenue Growth 2019-2024 (\$ Millions)

Figure 54. Brazil Power Discrete Semiconductor Revenue Growth 2019-2024 (\$ Millions)

Figure 55. APAC Power Discrete Semiconductor Sales Market Share by Region in 2023

Figure 56. APAC Power Discrete Semiconductor Revenue Market Share by Regions in 2023

Figure 57. APAC Power Discrete Semiconductor Sales Market Share by Type (2019-2024)

Figure 58. APAC Power Discrete Semiconductor Sales Market Share by Application (2019-2024)

Figure 59. China Power Discrete Semiconductor Revenue Growth 2019-2024 (\$ Millions)

Figure 60. Japan Power Discrete Semiconductor Revenue Growth 2019-2024 (\$ Millions)

Figure 61. South Korea Power Discrete Semiconductor Revenue Growth 2019-2024 (\$ Millions)

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