

Global Discrete Power Device Market Growth 2024-2030

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Abstracts

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According to our LPI (LP Information) latest study, the global Discrete Power Device market size was valued at US\$ 34510 million in 2023. With growing demand in downstream market, the Discrete Power Device is forecast to a readjusted size of US\$ 58980 million by 2030 with a CAGR of 8.0% during review period.

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

Discrete power devices refer to electronic devices with individual functions and functions that cannot be disassembled. According to different chip structures and functions, they can be divided into diodes, triodes, bridge rectifiers, thyristors, etc., and can be divided from the perspective of power dissipation (or rated current) For small signal devices, power devices.

Discrete power devices are electronic devices based on semiconductor materials with fixed single characteristics and functions. The device is mainly composed of a chip, a lead/frame, and a plastic casing. The chip determines device functions, such as rectification, voltage stabilization, switching, protection, etc. The lead/frame realizes the connection between the chip and the external circuit and the heat export. Provide



protection for the chip and internal structure, ensure the stable realization of its functions, and are highly related to core performance such as heat dissipation.

The key manufacturers of discrete power devices worldwide are Infineon, On Semiconductor, ST Microelectronics, Mitsubishi Electric (Vincotech), Nexperia, Vishay Intertechnology, Toshiba, Fuji Electric, Rohm, etc. The top three producers have a total market share of 35%, and the largest producer is Nexperia, with a 15% share. The global origins are mainly located in North America, Europe, China, Japan, Taiwan, etc. Among them, Europe is the largest production region with 30% of the market share. In terms of product categories, IGBT and MOSFET both have a high market share, with a total market share of 70%. In terms of its applications, the automotive is its number one application, with a market share of 35%; followed by industrial control and grid and energy industries.

Key Features:

The report on Discrete Power Device 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 Discrete Power Device market. It may include historical data, market segmentation by Type (e.g., Diodes, IGBT), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Discrete Power Device 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 Discrete Power Device 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 Discrete Power Device industry. This include advancements in Discrete Power Device technology, Discrete Power Device new entrants, Discrete Power Device new investment, and other innovations that are shaping the future of Discrete Power Device.



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

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

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

Market Segmentation:

Discrete Power Device 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

Diodes

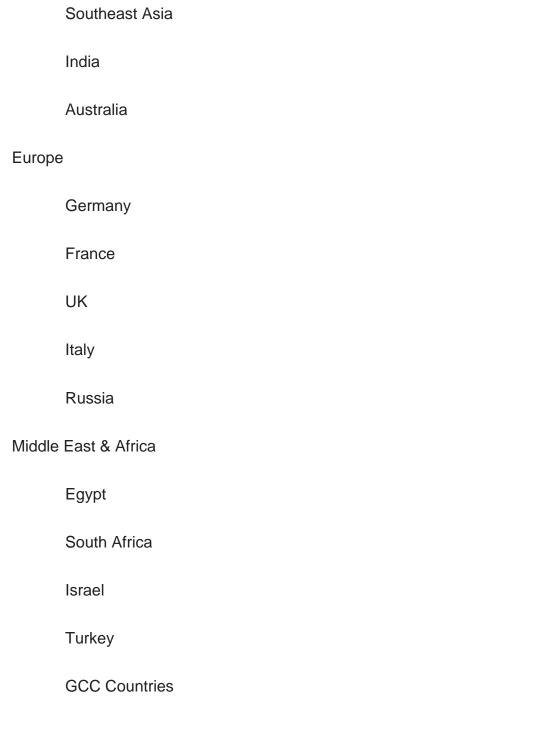
IGBT

MOSFET



BJT	
Thyrist	or
Segmentation by application	
Industr	ial Control
Automo	otive
Consu	mer Electronics
Comm	unication
Grid ar	nd Energy
Others	
This report also splits the market by region:	
Americas	
	United States
	Canada
	Mexico
	Brazil
APAC	
	China
	Japan
	Korea





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

ON Semiconductor



ST Microelectronics
Mitsubishi Electric (Vincotech)
Nexperia
Vishay Intertechnology
Toshiba
Fuji Electric
Rohm
Renesas Electronics
Diodes Incorporated
Littelfuse (IXYS)
Alpha & Omega Semiconductor
SEMIKRON Danfoss
Hitachi Power Semiconductor Device
Microchip
Sanken Electric
Semtech
MagnaChip
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 Semiconductor



Hubei TECH Semiconductors

Key Questions Addressed in this Report

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

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

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

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

How does Discrete Power Device 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 Discrete Power Device Annual Sales 2019-2030
- 2.1.2 World Current & Future Analysis for Discrete Power Device by Geographic Region, 2019, 2023 & 2030
- 2.1.3 World Current & Future Analysis for Discrete Power Device by Country/Region, 2019, 2023 & 2030
- 2.2 Discrete Power Device Segment by Type
 - 2.2.1 Diodes
 - 2.2.2 IGBT
 - **2.2.3 MOSFET**
 - 2.2.4 BJT
 - 2.2.5 Thyristor
- 2.3 Discrete Power Device Sales by Type
 - 2.3.1 Global Discrete Power Device Sales Market Share by Type (2019-2024)
 - 2.3.2 Global Discrete Power Device Revenue and Market Share by Type (2019-2024)
 - 2.3.3 Global Discrete Power Device Sale Price by Type (2019-2024)
- 2.4 Discrete Power Device Segment by Application
 - 2.4.1 Industrial Control
 - 2.4.2 Automotive
 - 2.4.3 Consumer Electronics
 - 2.4.4 Communication
 - 2.4.5 Grid and Energy
 - 2.4.6 Others
- 2.5 Discrete Power Device Sales by Application



- 2.5.1 Global Discrete Power Device Sale Market Share by Application (2019-2024)
- 2.5.2 Global Discrete Power Device Revenue and Market Share by Application (2019-2024)
- 2.5.3 Global Discrete Power Device Sale Price by Application (2019-2024)

3 GLOBAL DISCRETE POWER DEVICE BY COMPANY

- 3.1 Global Discrete Power Device Breakdown Data by Company
- 3.1.1 Global Discrete Power Device Annual Sales by Company (2019-2024)
- 3.1.2 Global Discrete Power Device Sales Market Share by Company (2019-2024)
- 3.2 Global Discrete Power Device Annual Revenue by Company (2019-2024)
 - 3.2.1 Global Discrete Power Device Revenue by Company (2019-2024)
- 3.2.2 Global Discrete Power Device Revenue Market Share by Company (2019-2024)
- 3.3 Global Discrete Power Device Sale Price by Company
- 3.4 Key Manufacturers Discrete Power Device Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Discrete Power Device Product Location Distribution
 - 3.4.2 Players Discrete Power Device 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 DISCRETE POWER DEVICE BY GEOGRAPHIC REGION

- 4.1 World Historic Discrete Power Device Market Size by Geographic Region (2019-2024)
- 4.1.1 Global Discrete Power Device Annual Sales by Geographic Region (2019-2024)
- 4.1.2 Global Discrete Power Device Annual Revenue by Geographic Region (2019-2024)
- 4.2 World Historic Discrete Power Device Market Size by Country/Region (2019-2024)
 - 4.2.1 Global Discrete Power Device Annual Sales by Country/Region (2019-2024)
 - 4.2.2 Global Discrete Power Device Annual Revenue by Country/Region (2019-2024)
- 4.3 Americas Discrete Power Device Sales Growth
- 4.4 APAC Discrete Power Device Sales Growth
- 4.5 Europe Discrete Power Device Sales Growth
- 4.6 Middle East & Africa Discrete Power Device Sales Growth



5 AMERICAS

- 5.1 Americas Discrete Power Device Sales by Country
 - 5.1.1 Americas Discrete Power Device Sales by Country (2019-2024)
 - 5.1.2 Americas Discrete Power Device Revenue by Country (2019-2024)
- 5.2 Americas Discrete Power Device Sales by Type
- 5.3 Americas Discrete Power Device Sales by Application
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Discrete Power Device Sales by Region
 - 6.1.1 APAC Discrete Power Device Sales by Region (2019-2024)
 - 6.1.2 APAC Discrete Power Device Revenue by Region (2019-2024)
- 6.2 APAC Discrete Power Device Sales by Type
- 6.3 APAC Discrete Power Device 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 Discrete Power Device by Country
 - 7.1.1 Europe Discrete Power Device Sales by Country (2019-2024)
 - 7.1.2 Europe Discrete Power Device Revenue by Country (2019-2024)
- 7.2 Europe Discrete Power Device Sales by Type
- 7.3 Europe Discrete Power Device 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 Discrete Power Device by Country
- 8.1.1 Middle East & Africa Discrete Power Device Sales by Country (2019-2024)
- 8.1.2 Middle East & Africa Discrete Power Device Revenue by Country (2019-2024)
- 8.2 Middle East & Africa Discrete Power Device Sales by Type
- 8.3 Middle East & Africa Discrete Power Device 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 Discrete Power Device
- 10.3 Manufacturing Process Analysis of Discrete Power Device
- 10.4 Industry Chain Structure of Discrete Power Device

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Discrete Power Device Distributors
- 11.3 Discrete Power Device Customer

12 WORLD FORECAST REVIEW FOR DISCRETE POWER DEVICE BY GEOGRAPHIC REGION



- 12.1 Global Discrete Power Device Market Size Forecast by Region
 - 12.1.1 Global Discrete Power Device Forecast by Region (2025-2030)
- 12.1.2 Global Discrete Power Device 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 Discrete Power Device Forecast by Type
- 12.7 Global Discrete Power Device Forecast by Application

13 KEY PLAYERS ANALYSIS

- 13.1 Infineon
 - 13.1.1 Infineon Company Information
- 13.1.2 Infineon Discrete Power Device Product Portfolios and Specifications
- 13.1.3 Infineon Discrete Power Device Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.1.4 Infineon Main Business Overview
 - 13.1.5 Infineon Latest Developments
- 13.2 ON Semiconductor
 - 13.2.1 ON Semiconductor Company Information
 - 13.2.2 ON Semiconductor Discrete Power Device Product Portfolios and

Specifications

- 13.2.3 ON Semiconductor Discrete Power Device Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.2.4 ON Semiconductor Main Business Overview
 - 13.2.5 ON Semiconductor Latest Developments
- 13.3 ST Microelectronics
 - 13.3.1 ST Microelectronics Company Information
 - 13.3.2 ST Microelectronics Discrete Power Device Product Portfolios and

Specifications

- 13.3.3 ST Microelectronics Discrete Power Device 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) Discrete Power Device Product Portfolios and



Specifications

- 13.4.3 Mitsubishi Electric (Vincotech) Discrete Power Device 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 Discrete Power Device Product Portfolios and Specifications
- 13.5.3 Nexperia Discrete Power Device 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 Discrete Power Device Product Portfolios and Specifications
- 13.6.3 Vishay Intertechnology Discrete Power Device 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 Discrete Power Device Product Portfolios and Specifications
- 13.7.3 Toshiba Discrete Power Device 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 Discrete Power Device Product Portfolios and Specifications
- 13.8.3 Fuji Electric Discrete Power Device 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 Discrete Power Device Product Portfolios and Specifications
- 13.9.3 Rohm Discrete Power Device 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 Discrete Power Device Product Portfolios and Specifications
- 13.10.3 Renesas Electronics Discrete Power Device 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 Discrete Power Device Product Portfolios and Specifications
- 13.11.3 Diodes Incorporated Discrete Power Device 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) Discrete Power Device Product Portfolios and Specifications
- 13.12.3 Littelfuse (IXYS) Discrete Power Device 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 Discrete Power Device Product Portfolios and Specifications
- 13.13.3 Alpha & Omega Semiconductor Discrete Power Device 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 Danfoss
 - 13.14.1 SEMIKRON Danfoss Company Information
- 13.14.2 SEMIKRON Danfoss Discrete Power Device Product Portfolios and Specifications
- 13.14.3 SEMIKRON Danfoss Discrete Power Device Sales, Revenue, Price and Gross Margin (2019-2024)



- 13.14.4 SEMIKRON Danfoss Main Business Overview
- 13.14.5 SEMIKRON Danfoss Latest Developments
- 13.15 Hitachi Power Semiconductor Device
- 13.15.1 Hitachi Power Semiconductor Device Company Information
- 13.15.2 Hitachi Power Semiconductor Device Discrete Power Device Product

Portfolios and Specifications

- 13.15.3 Hitachi Power Semiconductor Device Discrete Power Device 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 Discrete Power Device Product Portfolios and Specifications
- 13.16.3 Microchip Discrete Power Device 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 Discrete Power Device Product Portfolios and Specifications
- 13.17.3 Sanken Electric Discrete Power Device 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 Discrete Power Device Product Portfolios and Specifications
- 13.18.3 Semtech Discrete Power Device 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 Discrete Power Device Product Portfolios and Specifications
- 13.19.3 MagnaChip Discrete Power Device Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.19.4 MagnaChip Main Business Overview
 - 13.19.5 MagnaChip Latest Developments
- 13.20 Bosch



- 13.20.1 Bosch Company Information
- 13.20.2 Bosch Discrete Power Device Product Portfolios and Specifications
- 13.20.3 Bosch Discrete Power Device Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.20.4 Bosch Main Business Overview
 - 13.20.5 Bosch Latest Developments
- 13.21 Texas Instruments
 - 13.21.1 Texas Instruments Company Information
- 13.21.2 Texas Instruments Discrete Power Device Product Portfolios and Specifications
- 13.21.3 Texas Instruments Discrete Power Device Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.21.4 Texas Instruments Main Business Overview
 - 13.21.5 Texas Instruments Latest Developments
- 13.22 KEC Corporation
 - 13.22.1 KEC Corporation Company Information
 - 13.22.2 KEC Corporation Discrete Power Device Product Portfolios and Specifications
- 13.22.3 KEC Corporation Discrete Power Device Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.22.4 KEC Corporation Main Business Overview
 - 13.22.5 KEC Corporation Latest Developments
- 13.23 Cree (Wolfspeed)
 - 13.23.1 Cree (Wolfspeed) Company Information
 - 13.23.2 Cree (Wolfspeed) Discrete Power Device Product Portfolios and Specifications
- 13.23.3 Cree (Wolfspeed) Discrete Power Device Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.23.4 Cree (Wolfspeed) Main Business Overview
 - 13.23.5 Cree (Wolfspeed) Latest Developments
- 13.24 PANJIT Group
 - 13.24.1 PANJIT Group Company Information
 - 13.24.2 PANJIT Group Discrete Power Device Product Portfolios and Specifications
- 13.24.3 PANJIT Group Discrete Power Device Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.24.4 PANJIT Group Main Business Overview
 - 13.24.5 PANJIT Group Latest Developments
- 13.25 Unisonic Technologies (UTC)
 - 13.25.1 Unisonic Technologies (UTC) Company Information
- 13.25.2 Unisonic Technologies (UTC) Discrete Power Device Product Portfolios and Specifications



- 13.25.3 Unisonic Technologies (UTC) Discrete Power Device Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.25.4 Unisonic Technologies (UTC) Main Business Overview
 - 13.25.5 Unisonic Technologies (UTC) Latest Developments
- 13.26 Niko Semiconductor
- 13.26.1 Niko Semiconductor Company Information
- 13.26.2 Niko Semiconductor Discrete Power Device Product Portfolios and Specifications
- 13.26.3 Niko Semiconductor Discrete Power Device Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.26.4 Niko Semiconductor Main Business Overview
 - 13.26.5 Niko Semiconductor Latest Developments
- 13.27 Hangzhou Silan Microelectronics
- 13.27.1 Hangzhou Silan Microelectronics Company Information
- 13.27.2 Hangzhou Silan Microelectronics Discrete Power Device Product Portfolios and Specifications
- 13.27.3 Hangzhou Silan Microelectronics Discrete Power Device Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.27.4 Hangzhou Silan Microelectronics Main Business Overview
 - 13.27.5 Hangzhou Silan Microelectronics Latest Developments
- 13.28 Yangzhou Yangjie Electronic Technology
- 13.28.1 Yangzhou Yangjie Electronic Technology Company Information
- 13.28.2 Yangzhou Yangjie Electronic Technology Discrete Power Device Product Portfolios and Specifications
- 13.28.3 Yangzhou Yangjie Electronic Technology Discrete Power Device Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.28.4 Yangzhou Yangjie Electronic Technology Main Business Overview
 - 13.28.5 Yangzhou Yangjie Electronic Technology Latest Developments
- 13.29 China Resources Microelectronics Limited
- 13.29.1 China Resources Microelectronics Limited Company Information
- 13.29.2 China Resources Microelectronics Limited Discrete Power Device Product Portfolios and Specifications
- 13.29.3 China Resources Microelectronics Limited Discrete Power Device Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.29.4 China Resources Microelectronics Limited Main Business Overview
- 13.29.5 China Resources Microelectronics Limited Latest Developments
- 13.30 Jilin Sino-Microelectronics
 - 13.30.1 Jilin Sino-Microelectronics Company Information
- 13.30.2 Jilin Sino-Microelectronics Discrete Power Device Product Portfolios and



Specifications

- 13.30.3 Jilin Sino-Microelectronics Discrete Power Device Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.30.4 Jilin Sino-Microelectronics Main Business Overview
 - 13.30.5 Jilin Sino-Microelectronics Latest Developments
- 13.31 StarPower
- 13.32 NCEPOWER
- 13.33 Hangzhou Li-On Microelectronics Corporation
- 13.34 Jiangsu Jiejie Microelectronics
- 13.35 OmniVision Technologies
- 13.36 Suzhou Good-Ark Electronics
- 13.37 Zhuzhou CRRC Times Electric
- 13.38 WeEn Semiconductors
- 13.39 Changzhou Galaxy Century Microelectronics
- 13.40 MacMic Science & Technolog
- 13.41 BYD Semiconductor
- 13.42 Hubei TECH Semiconductors

14 RESEARCH FINDINGS AND CONCLUSION



List Of Tables

LIST OF TABLES

- Table 1. Discrete Power Device Annual Sales CAGR by Geographic Region (2019,
- 2023 & 2030) & (\$ millions)
- Table 2. Discrete Power Device Annual Sales CAGR by Country/Region (2019, 2023 &
- 2030) & (\$ millions)
- Table 3. Major Players of Diodes
- Table 4. Major Players of IGBT
- Table 5. Major Players of MOSFET
- Table 6. Major Players of BJT
- Table 7. Major Players of Thyristor
- Table 8. Global Discrete Power Device Sales by Type (2019-2024) & (M Pcs)
- Table 9. Global Discrete Power Device Sales Market Share by Type (2019-2024)
- Table 10. Global Discrete Power Device Revenue by Type (2019-2024) & (\$ million)
- Table 11. Global Discrete Power Device Revenue Market Share by Type (2019-2024)
- Table 12. Global Discrete Power Device Sale Price by Type (2019-2024) & (USD/K Pcs)
- Table 13. Global Discrete Power Device Sales by Application (2019-2024) & (M Pcs)
- Table 14. Global Discrete Power Device Sales Market Share by Application (2019-2024)
- Table 15. Global Discrete Power Device Revenue by Application (2019-2024)
- Table 16. Global Discrete Power Device Revenue Market Share by Application (2019-2024)
- Table 17. Global Discrete Power Device Sale Price by Application (2019-2024) & (USD/K Pcs)
- Table 18. Global Discrete Power Device Sales by Company (2019-2024) & (M Pcs)
- Table 19. Global Discrete Power Device Sales Market Share by Company (2019-2024)
- Table 20. Global Discrete Power Device Revenue by Company (2019-2024) (\$ Millions)
- Table 21. Global Discrete Power Device Revenue Market Share by Company (2019-2024)
- Table 22. Global Discrete Power Device Sale Price by Company (2019-2024) & (USD/K Pcs)
- Table 23. Key Manufacturers Discrete Power Device Producing Area Distribution and Sales Area
- Table 24. Players Discrete Power Device Products Offered
- Table 25. Discrete Power Device Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)



- Table 26. New Products and Potential Entrants
- Table 27. Mergers & Acquisitions, Expansion
- Table 28. Global Discrete Power Device Sales by Geographic Region (2019-2024) & (MPcs)
- Table 29. Global Discrete Power Device Sales Market Share Geographic Region (2019-2024)
- Table 30. Global Discrete Power Device Revenue by Geographic Region (2019-2024) & (\$ millions)
- Table 31. Global Discrete Power Device Revenue Market Share by Geographic Region (2019-2024)
- Table 32. Global Discrete Power Device Sales by Country/Region (2019-2024) & (M Pcs)
- Table 33. Global Discrete Power Device Sales Market Share by Country/Region (2019-2024)
- Table 34. Global Discrete Power Device Revenue by Country/Region (2019-2024) & (\$ millions)
- Table 35. Global Discrete Power Device Revenue Market Share by Country/Region (2019-2024)
- Table 36. Americas Discrete Power Device Sales by Country (2019-2024) & (M Pcs)
- Table 37. Americas Discrete Power Device Sales Market Share by Country (2019-2024)
- Table 38. Americas Discrete Power Device Revenue by Country (2019-2024) & (\$ Millions)
- Table 39. Americas Discrete Power Device Revenue Market Share by Country (2019-2024)
- Table 40. Americas Discrete Power Device Sales by Type (2019-2024) & (M Pcs)
- Table 41. Americas Discrete Power Device Sales by Application (2019-2024) & (M Pcs)
- Table 42. APAC Discrete Power Device Sales by Region (2019-2024) & (M Pcs)
- Table 43. APAC Discrete Power Device Sales Market Share by Region (2019-2024)
- Table 44. APAC Discrete Power Device Revenue by Region (2019-2024) & (\$ Millions)
- Table 45. APAC Discrete Power Device Revenue Market Share by Region (2019-2024)
- Table 46. APAC Discrete Power Device Sales by Type (2019-2024) & (M Pcs)
- Table 47. APAC Discrete Power Device Sales by Application (2019-2024) & (M Pcs)
- Table 48. Europe Discrete Power Device Sales by Country (2019-2024) & (M Pcs)
- Table 49. Europe Discrete Power Device Sales Market Share by Country (2019-2024)
- Table 50. Europe Discrete Power Device Revenue by Country (2019-2024) & (\$ Millions)
- Table 51. Europe Discrete Power Device Revenue Market Share by Country (2019-2024)
- Table 52. Europe Discrete Power Device Sales by Type (2019-2024) & (M Pcs)



- Table 53. Europe Discrete Power Device Sales by Application (2019-2024) & (M Pcs)
- Table 54. Middle East & Africa Discrete Power Device Sales by Country (2019-2024) & (M Pcs)
- Table 55. Middle East & Africa Discrete Power Device Sales Market Share by Country (2019-2024)
- Table 56. Middle East & Africa Discrete Power Device Revenue by Country (2019-2024) & (\$ Millions)
- Table 57. Middle East & Africa Discrete Power Device Revenue Market Share by Country (2019-2024)
- Table 58. Middle East & Africa Discrete Power Device Sales by Type (2019-2024) & (M Pcs)
- Table 59. Middle East & Africa Discrete Power Device Sales by Application (2019-2024) & (M Pcs)
- Table 60. Key Market Drivers & Growth Opportunities of Discrete Power Device
- Table 61. Key Market Challenges & Risks of Discrete Power Device
- Table 62. Key Industry Trends of Discrete Power Device
- Table 63. Discrete Power Device Raw Material
- Table 64. Key Suppliers of Raw Materials
- Table 65. Discrete Power Device Distributors List
- Table 66. Discrete Power Device Customer List
- Table 67. Global Discrete Power Device Sales Forecast by Region (2025-2030) & (M Pcs)
- Table 68. Global Discrete Power Device Revenue Forecast by Region (2025-2030) & (\$ millions)
- Table 69. Americas Discrete Power Device Sales Forecast by Country (2025-2030) & (M Pcs)
- Table 70. Americas Discrete Power Device Revenue Forecast by Country (2025-2030) & (\$ millions)
- Table 71. APAC Discrete Power Device Sales Forecast by Region (2025-2030) & (M Pcs)
- Table 72. APAC Discrete Power Device Revenue Forecast by Region (2025-2030) & (\$ millions)
- Table 73. Europe Discrete Power Device Sales Forecast by Country (2025-2030) & (M Pcs)
- Table 74. Europe Discrete Power Device Revenue Forecast by Country (2025-2030) & (\$ millions)
- Table 75. Middle East & Africa Discrete Power Device Sales Forecast by Country (2025-2030) & (M Pcs)
- Table 76. Middle East & Africa Discrete Power Device Revenue Forecast by Country



(2025-2030) & (\$ millions)

Table 77. Global Discrete Power Device Sales Forecast by Type (2025-2030) & (M Pcs)

Table 78. Global Discrete Power Device Revenue Forecast by Type (2025-2030) & (\$ Millions)

Table 79. Global Discrete Power Device Sales Forecast by Application (2025-2030) & (M Pcs)

Table 80. Global Discrete Power Device Revenue Forecast by Application (2025-2030) & (\$ Millions)

Table 81. Infineon Basic Information, Discrete Power Device Manufacturing Base, Sales Area and Its Competitors

Table 82. Infineon Discrete Power Device Product Portfolios and Specifications

Table 83. Infineon Discrete Power Device Sales (M Pcs), Revenue (\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 84. Infineon Main Business

Table 85. Infineon Latest Developments

Table 86. ON Semiconductor Basic Information, Discrete Power Device Manufacturing

Base, Sales Area and Its Competitors

Table 87. ON Semiconductor Discrete Power Device Product Portfolios and Specifications

Table 88. ON Semiconductor Discrete Power Device Sales (M Pcs), Revenue (\$

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

Table 89. ON Semiconductor Main Business

Table 90. ON Semiconductor Latest Developments

Table 91. ST Microelectronics Basic Information, Discrete Power Device Manufacturing Base, Sales Area and Its Competitors

Table 92. ST Microelectronics Discrete Power Device Product Portfolios and Specifications

Table 93. ST Microelectronics Discrete Power Device Sales (M Pcs), Revenue (\$

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

Table 94. ST Microelectronics Main Business

Table 95. ST Microelectronics Latest Developments

Table 96. Mitsubishi Electric (Vincotech) Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 97. Mitsubishi Electric (Vincotech) Discrete Power Device Product Portfolios and Specifications

Table 98. Mitsubishi Electric (Vincotech) Discrete Power Device Sales (M Pcs),

Revenue (\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 99. Mitsubishi Electric (Vincotech) Main Business

Table 100. Mitsubishi Electric (Vincotech) Latest Developments



Table 101. Nexperia Basic Information, Discrete Power Device Manufacturing Base, Sales Area and Its Competitors

Table 102. Nexperia Discrete Power Device Product Portfolios and Specifications

Table 103. Nexperia Discrete Power Device Sales (M Pcs), Revenue (\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 104. Nexperia Main Business

Table 105. Nexperia Latest Developments

Table 106. Vishay Intertechnology Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 107. Vishay Intertechnology Discrete Power Device Product Portfolios and Specifications

Table 108. Vishay Intertechnology Discrete Power Device Sales (M Pcs), Revenue (\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 109. Vishay Intertechnology Main Business

Table 110. Vishay Intertechnology Latest Developments

Table 111. Toshiba Basic Information, Discrete Power Device Manufacturing Base,

Sales Area and Its Competitors

Table 112. Toshiba Discrete Power Device Product Portfolios and Specifications

Table 113. Toshiba Discrete Power Device Sales (M Pcs), Revenue (\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 114. Toshiba Main Business

Table 115. Toshiba Latest Developments

Table 116. Fuji Electric Basic Information, Discrete Power Device Manufacturing Base,

Sales Area and Its Competitors

Table 117. Fuji Electric Discrete Power Device Product Portfolios and Specifications

Table 118. Fuji Electric Discrete Power Device Sales (M Pcs), Revenue (\$ Million),

Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 119. Fuji Electric Main Business

Table 120. Fuji Electric Latest Developments

Table 121. Rohm Basic Information, Discrete Power Device Manufacturing Base, Sales Area and Its Competitors

Table 122. Rohm Discrete Power Device Product Portfolios and Specifications

Table 123. Rohm Discrete Power Device Sales (M Pcs), Revenue (\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 124. Rohm Main Business

Table 125. Rohm Latest Developments

Table 126. Renesas Electronics Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 127. Renesas Electronics Discrete Power Device Product Portfolios and



Specifications

Table 128. Renesas Electronics Discrete Power Device Sales (M Pcs), Revenue (\$

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

Table 129. Renesas Electronics Main Business

Table 130. Renesas Electronics Latest Developments

Table 131. Diodes Incorporated Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 132. Diodes Incorporated Discrete Power Device Product Portfolios and Specifications

Table 133. Diodes Incorporated Discrete Power Device Sales (M Pcs), Revenue (\$

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

Table 134. Diodes Incorporated Main Business

Table 135. Diodes Incorporated Latest Developments

Table 136. Littelfuse (IXYS) Basic Information, Discrete Power Device Manufacturing

Base, Sales Area and Its Competitors

Table 137. Littelfuse (IXYS) Discrete Power Device Product Portfolios and

Specifications

Table 138. Littelfuse (IXYS) Discrete Power Device Sales (M Pcs), Revenue (\$ Million),

Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 139. Littelfuse (IXYS) Main Business

Table 140. Littelfuse (IXYS) Latest Developments

Table 141. Alpha & Omega Semiconductor Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 142. Alpha & Omega Semiconductor Discrete Power Device Product Portfolios and Specifications

Table 143. Alpha & Omega Semiconductor Discrete Power Device Sales (M Pcs),

Revenue (\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 144. Alpha & Omega Semiconductor Main Business

Table 145. Alpha & Omega Semiconductor Latest Developments

Table 146. SEMIKRON Danfoss Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 147. SEMIKRON Danfoss Discrete Power Device Product Portfolios and Specifications

Table 148. SEMIKRON Danfoss Discrete Power Device Sales (M Pcs), Revenue (\$

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

Table 149. SEMIKRON Danfoss Main Business

Table 150. SEMIKRON Danfoss Latest Developments

Table 151. Hitachi Power Semiconductor Device Basic Information, Discrete Power

Device Manufacturing Base, Sales Area and Its Competitors



Table 152. Hitachi Power Semiconductor Device Discrete Power Device Product Portfolios and Specifications

Table 153. Hitachi Power Semiconductor Device Discrete Power Device Sales (M Pcs),

Revenue (\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 154. Hitachi Power Semiconductor Device Main Business

Table 155. Hitachi Power Semiconductor Device Latest Developments

Table 156. Microchip Basic Information, Discrete Power Device Manufacturing Base,

Sales Area and Its Competitors

Table 157. Microchip Discrete Power Device Product Portfolios and Specifications

Table 158. Microchip Discrete Power Device Sales (M Pcs), Revenue (\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 159. Microchip Main Business

Table 160. Microchip Latest Developments

Table 161. Sanken Electric Basic Information, Discrete Power Device Manufacturing

Base, Sales Area and Its Competitors

Table 162. Sanken Electric Discrete Power Device Product Portfolios and Specifications

Table 163. Sanken Electric Discrete Power Device Sales (M Pcs), Revenue (\$ Million),

Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 164. Sanken Electric Main Business

Table 165. Sanken Electric Latest Developments

Table 166. Semtech Basic Information, Discrete Power Device Manufacturing Base,

Sales Area and Its Competitors

Table 167. Semtech Discrete Power Device Product Portfolios and Specifications

Table 168. Semtech Discrete Power Device Sales (M Pcs), Revenue (\$ Million), Price

(USD/K Pcs) and Gross Margin (2019-2024)

Table 169. Semtech Main Business

Table 170. Semtech Latest Developments

Table 171. MagnaChip Basic Information, Discrete Power Device Manufacturing Base,

Sales Area and Its Competitors

Table 172. MagnaChip Discrete Power Device Product Portfolios and Specifications

Table 173. MagnaChip Discrete Power Device Sales (M Pcs), Revenue (\$ Million),

Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 174. MagnaChip Main Business

Table 175. MagnaChip Latest Developments

Table 176. Bosch Basic Information, Discrete Power Device Manufacturing Base, Sales

Area and Its Competitors

Table 177. Bosch Discrete Power Device Product Portfolios and Specifications

Table 178. Bosch Discrete Power Device Sales (M Pcs), Revenue (\$ Million), Price

(USD/K Pcs) and Gross Margin (2019-2024)



Table 179. Bosch Main Business

Table 180. Bosch Latest Developments

Table 181. Texas Instruments Basic Information, Discrete Power Device Manufacturing

Base, Sales Area and Its Competitors

Table 182. Texas Instruments Discrete Power Device Product Portfolios and

Specifications

Table 183. Texas Instruments Discrete Power Device Sales (M Pcs), Revenue (\$

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

Table 184. Texas Instruments Main Business

Table 185. Texas Instruments Latest Developments

Table 186. KEC Corporation Basic Information, Discrete Power Device Manufacturing

Base, Sales Area and Its Competitors

Table 187. KEC Corporation Discrete Power Device Product Portfolios and

Specifications

Table 188. KEC Corporation Discrete Power Device Sales (M Pcs), Revenue (\$ Million),

Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 189. KEC Corporation Main Business

Table 190. KEC Corporation Latest Developments

Table 191. Cree (Wolfspeed) Basic Information, Discrete Power Device Manufacturing

Base, Sales Area and Its Competitors

Table 192. Cree (Wolfspeed) Discrete Power Device Product Portfolios and

Specifications

Table 193. Cree (Wolfspeed) Discrete Power Device Sales (M Pcs), Revenue (\$

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

Table 194. Cree (Wolfspeed) Main Business

Table 195. Cree (Wolfspeed) Latest Developments

Table 196. PANJIT Group Basic Information, Discrete Power Device Manufacturing

Base, Sales Area and Its Competitors

Table 197. PANJIT Group Discrete Power Device Product Portfolios and Specifications

Table 198. PANJIT Group Discrete Power Device Sales (M Pcs), Revenue (\$ Million),

Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 199. PANJIT Group Main Business

Table 200. PANJIT Group Latest Developments

Table 201. Unisonic Technologies (UTC) Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 202. Unisonic Technologies (UTC) Discrete Power Device Product Portfolios and

Specifications

Table 203. Unisonic Technologies (UTC) Discrete Power Device Sales (M Pcs),

Revenue (\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)



Table 204. Unisonic Technologies (UTC) Main Business

Table 205. Unisonic Technologies (UTC) Latest Developments

Table 206. Niko Semiconductor Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 207. Niko Semiconductor Discrete Power Device Product Portfolios and Specifications

Table 208. Niko Semiconductor Discrete Power Device Sales (M Pcs), Revenue (\$

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

Table 209. Niko Semiconductor Main Business

Table 210. Niko Semiconductor Latest Developments

Table 211. Hangzhou Silan Microelectronics Basic Information, Discrete Power Device Manufacturing Base, Sales Area and Its Competitors

Table 212. Hangzhou Silan Microelectronics Discrete Power Device Product Portfolios and Specifications

Table 213. Hangzhou Silan Microelectronics Discrete Power Device Sales (M Pcs),

Revenue (\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 214. Hangzhou Silan Microelectronics Main Business

Table 215. Hangzhou Silan Microelectronics Latest Developments

Table 216. Yangzhou Yangjie Electronic Technology Basic Information, Discrete Power Device Manufacturing Base, Sales Area and Its Competitors

Table 217. Yangzhou Yangjie Electronic Technology Discrete Power Device Product Portfolios and Specifications

Table 218. Yangzhou Yangjie Electronic Technology Discrete Power Device Sales (M

Pcs), Revenue (\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 219. Yangzhou Yangjie Electronic Technology Main Business

Table 220. Yangzhou Yangjie Electronic Technology Latest Developments

Table 221. China Resources Microelectronics Limited Basic Information, Discrete

Power Device Manufacturing Base, Sales Area and Its Competitors

Table 222. China Resources Microelectronics Limited Discrete Power Device Product Portfolios and Specifications

Table 223. China Resources Microelectronics Limited Discrete Power Device Sales (M

Pcs), Revenue (\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 224. China Resources Microelectronics Limited Main Business

Table 225. China Resources Microelectronics Limited Latest Developments

Table 226. Jilin Sino-Microelectronics Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 227. Jilin Sino-Microelectronics Discrete Power Device Product Portfolios and Specifications

Table 228. Jilin Sino-Microelectronics Discrete Power Device Sales (M Pcs), Revenue



(\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 229. Jilin Sino-Microelectronics Main Business

Table 230. Jilin Sino-Microelectronics Latest Developments

Table 231. StarPower Basic Information, Discrete Power Device Manufacturing Base,

Sales Area and Its Competitors

Table 232. StarPower Discrete Power Device Product Portfolios and Specifications

Table 233. StarPower Discrete Power Device Sales (M Pcs), Revenue (\$ Million), Price

(USD/K Pcs) and Gross Margin (2019-2024)

Table 234. StarPower Main Business

Table 235. StarPower Latest Developments

Table 236. NCEPOWER Basic Information, Discrete Power Device Manufacturing

Base, Sales Area and Its Competitors

Table 237. NCEPOWER Discrete Power Device Product Portfolios and Specifications

Table 238. NCEPOWER Discrete Power Device Sales (M Pcs), Revenue (\$ Million),

Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 239. NCEPOWER Main Business

Table 240. NCEPOWER Latest Developments

Table 241. Hangzhou Li-On Microelectronics Corporation Basic Information, Discrete

Power Device Manufacturing Base, Sales Area and Its Competitors

Table 242. Hangzhou Li-On Microelectronics Corporation Discrete Power Device

Product Portfolios and Specifications

Table 243. Hangzhou Li-On Microelectronics Corporation Discrete Power Device Sales

(M Pcs), Revenue (\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 244. Hangzhou Li-On Microelectronics Corporation Main Business

Table 245. Hangzhou Li-On Microelectronics Corporation Latest Developments

Table 246. Jiangsu Jiejie Microelectronics Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 247. Jiangsu Jiejie Microelectronics Discrete Power Device Product Portfolios

and Specifications

Table 248. Jiangsu Jiejie Microelectronics Discrete Power Device Sales (M Pcs),

Revenue (\$ Million), Price (USD/K Pcs) and Gross Margin (2019-2024)

Table 249. Jiangsu Jiejie Microelectronics Main Business

Table 250. Jiangsu Jiejie Microelectronics Latest Developments

Table 251. OmniVision Technologies Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 252. OmniVision Technologies Discrete Power Device Product Portfolios and

Specifications

Table 253. OmniVision Technologies Discrete Power Device Sales (M Pcs), Revenue (\$

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



Table 254. OmniVision Technologies Main Business

Table 255. OmniVision Technologies Latest Developments

Table 256. Suzhou Good-Ark Electronics Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 257. Zhuzhou CRRC Times Electric Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 258. WeEn Semiconductors Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 259. Changzhou Galaxy Century Microelectronics Basic Information, Discrete

Power Device Manufacturing Base, Sales Area and Its Competitors

Table 260. MacMic Science & Technolog Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 261. BYD Semiconductor Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors

Table 262. Hubei TECH Semiconductors Basic Information, Discrete Power Device

Manufacturing Base, Sales Area and Its Competitors



List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Discrete Power Device
- Figure 2. Discrete Power Device Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Discrete Power Device Sales Growth Rate 2019-2030 (M Pcs)
- Figure 7. Global Discrete Power Device Revenue Growth Rate 2019-2030 (\$ Millions)
- Figure 8. Discrete Power Device Sales by Region (2019, 2023 & 2030) & (\$ Millions)
- Figure 9. Product Picture of Diodes
- Figure 10. Product Picture of IGBT
- Figure 11. Product Picture of MOSFET
- Figure 12. Product Picture of BJT
- Figure 13. Product Picture of Thyristor
- Figure 14. Global Discrete Power Device Sales Market Share by Type in 2023
- Figure 15. Global Discrete Power Device Revenue Market Share by Type (2019-2024)
- Figure 16. Discrete Power Device Consumed in Industrial Control
- Figure 17. Global Discrete Power Device Market: Industrial Control (2019-2024) & (MPcs)
- Figure 18. Discrete Power Device Consumed in Automotive
- Figure 19. Global Discrete Power Device Market: Automotive (2019-2024) & (M Pcs)
- Figure 20. Discrete Power Device Consumed in Consumer Electronics
- Figure 21. Global Discrete Power Device Market: Consumer Electronics (2019-2024) & (M Pcs)
- Figure 22. Discrete Power Device Consumed in Communication
- Figure 23. Global Discrete Power Device Market: Communication (2019-2024) & (M Pcs)
- Figure 24. Discrete Power Device Consumed in Grid and Energy
- Figure 25. Global Discrete Power Device Market: Grid and Energy (2019-2024) & (M Pcs)
- Figure 26. Discrete Power Device Consumed in Others
- Figure 27. Global Discrete Power Device Market: Others (2019-2024) & (M Pcs)
- Figure 28. Global Discrete Power Device Sales Market Share by Application (2023)
- Figure 29. Global Discrete Power Device Revenue Market Share by Application in 2023
- Figure 30. Discrete Power Device Sales Market by Company in 2023 (M Pcs)
- Figure 31. Global Discrete Power Device Sales Market Share by Company in 2023



- Figure 32. Discrete Power Device Revenue Market by Company in 2023 (\$ Million)
- Figure 33. Global Discrete Power Device Revenue Market Share by Company in 2023
- Figure 34. Global Discrete Power Device Sales Market Share by Geographic Region (2019-2024)
- Figure 35. Global Discrete Power Device Revenue Market Share by Geographic Region in 2023
- Figure 36. Americas Discrete Power Device Sales 2019-2024 (M Pcs)
- Figure 37. Americas Discrete Power Device Revenue 2019-2024 (\$ Millions)
- Figure 38. APAC Discrete Power Device Sales 2019-2024 (M Pcs)
- Figure 39. APAC Discrete Power Device Revenue 2019-2024 (\$ Millions)
- Figure 40. Europe Discrete Power Device Sales 2019-2024 (M Pcs)
- Figure 41. Europe Discrete Power Device Revenue 2019-2024 (\$ Millions)
- Figure 42. Middle East & Africa Discrete Power Device Sales 2019-2024 (M Pcs)
- Figure 43. Middle East & Africa Discrete Power Device Revenue 2019-2024 (\$ Millions)
- Figure 44. Americas Discrete Power Device Sales Market Share by Country in 2023
- Figure 45. Americas Discrete Power Device Revenue Market Share by Country in 2023
- Figure 46. Americas Discrete Power Device Sales Market Share by Type (2019-2024)
- Figure 47. Americas Discrete Power Device Sales Market Share by Application (2019-2024)
- Figure 48. United States Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 49. Canada Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 50. Mexico Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 51. Brazil Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 52. APAC Discrete Power Device Sales Market Share by Region in 2023
- Figure 53. APAC Discrete Power Device Revenue Market Share by Regions in 2023
- Figure 54. APAC Discrete Power Device Sales Market Share by Type (2019-2024)
- Figure 55. APAC Discrete Power Device Sales Market Share by Application (2019-2024)
- Figure 56. China Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 57. Japan Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 58. South Korea Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 59. Southeast Asia Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 60. India Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 61. Australia Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 62. China Taiwan Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 63. Europe Discrete Power Device Sales Market Share by Country in 2023



- Figure 64. Europe Discrete Power Device Revenue Market Share by Country in 2023
- Figure 65. Europe Discrete Power Device Sales Market Share by Type (2019-2024)
- Figure 66. Europe Discrete Power Device Sales Market Share by Application (2019-2024)
- Figure 67. Germany Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 68. France Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 69. UK Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 70. Italy Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 71. Russia Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 72. Middle East & Africa Discrete Power Device Sales Market Share by Country in 2023
- Figure 73. Middle East & Africa Discrete Power Device Revenue Market Share by Country in 2023
- Figure 74. Middle East & Africa Discrete Power Device Sales Market Share by Type (2019-2024)
- Figure 75. Middle East & Africa Discrete Power Device Sales Market Share by Application (2019-2024)
- Figure 76. Egypt Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 77. South Africa Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 78. Israel Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 79. Turkey Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 80. GCC Country Discrete Power Device Revenue Growth 2019-2024 (\$ Millions)
- Figure 81. Manufacturing Cost Structure Analysis of Discrete Power Device in 2023
- Figure 82. Manufacturing Process Analysis of Discrete Power Device
- Figure 83. Industry Chain Structure of Discrete Power Device
- Figure 84. Channel



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