

Global Power Semiconductor Devices Market Growth 2025-2031

<https://marketpublishers.com/r/GEE5A11608F9EN.html>

Date: June 2026

Pages: 211

Price: US\$ 3,660.00 (Single User License)

ID: GEE5A11608F9EN

Abstracts

The global Power Semiconductor Devices market size is predicted to grow from US\$ 35670 million in 2025 to US\$ 50280 million in 2031; it is expected to grow at a CAGR of 5.9% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

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 discrete power devices are mainly produced in North America, Europe, Japan, Europe, China mainland, China Taiwan, South Korea and Southeast Asia, etc. The global key players are mainly from Europe, US, Japan, China mainland, and China Taiwan. In 2023, the global top ten players hold a share nearly 60 percent in terms of

revenue.

In terms of product segment, the MOSFETs is the largest segment, with a share of 35%. IGBTs now are the second segment, and will be the largest segment in next few years, driven by the demand from electric vehicle (EV), PV and wind power, etc.

In terms of application, the automotive is the largest segment in 2023, holds a share over 35 percent, followed by Industrial Control, with a share about 24.3%.

In next several years, the SiC power devices like SiC SBD, SiC MOSFETs, and automotive grade IGBT will be the fast-growing products.

LP Information, Inc. (LPI) ' newest research report, the "Power Semiconductor Devices Industry Forecast" looks at past sales and reviews total world Power Semiconductor Devices sales in 2024, providing a comprehensive analysis by region and market sector of projected Power Semiconductor Devices sales for 2025 through 2031. With Power Semiconductor Devices sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Power Semiconductor Devices industry.

This Insight Report provides a comprehensive analysis of the global Power Semiconductor Devices landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Power Semiconductor Devices portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Power Semiconductor Devices market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Power Semiconductor Devices and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Power Semiconductor Devices.

This report presents a comprehensive overview, market shares, and growth opportunities of Power Semiconductor Devices market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Diodes

IGBT

MOSFET

BJT

Thyristor

Segmentation by Application:

Industrial Control

Automotive

Consumer Electronics

Communication

Grid and Energy

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

Infineon

onsemi

STMicroelectronics

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

Wolfspeed

PANJIT Group

Unisonic Technologies (UTC)

Niko Semiconductor

Hangzhou Silan Microelectronics

Yangzhou Yangjie Electronic Technology

China Resources Microelectronics Limited

Jilin Sino-Microelectronics

StarPower

NCEPOWER

Prisemi

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

BASiC Semiconductor

Shandong Jingdao Microelectronics

Key Questions Addressed in this Report

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

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

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

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

How does Power Semiconductor Devices break out by Type, by 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 Semiconductor Devices Annual Sales 2020-2031
- 2.1.2 World Current & Future Analysis for Power Semiconductor Devices by Geographic Region, 2020, 2024 & 2031
- 2.1.3 World Current & Future Analysis for Power Semiconductor Devices by Country/Region, 2020, 2024 & 2031

2.2 Power Semiconductor Devices 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 Power Semiconductor Devices Sales by Type

- 2.3.1 Global Power Semiconductor Devices Sales Market Share by Type (2020-2025)
- 2.3.2 Global Power Semiconductor Devices Revenue and Market Share by Type (2020-2025)
- 2.3.3 Global Power Semiconductor Devices Sale Price by Type (2020-2025)

2.4 Power Semiconductor Devices 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 Power Semiconductor Devices Sales by Application

2.5.1 Global Power Semiconductor Devices Sale Market Share by Application (2020-2025)

2.5.2 Global Power Semiconductor Devices Revenue and Market Share by Application (2020-2025)

2.5.3 Global Power Semiconductor Devices Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Power Semiconductor Devices Breakdown Data by Company

3.1.1 Global Power Semiconductor Devices Annual Sales by Company (2020-2025)

3.1.2 Global Power Semiconductor Devices Sales Market Share by Company (2020-2025)

3.2 Global Power Semiconductor Devices Annual Revenue by Company (2020-2025)

3.2.1 Global Power Semiconductor Devices Revenue by Company (2020-2025)

3.2.2 Global Power Semiconductor Devices Revenue Market Share by Company (2020-2025)

3.3 Global Power Semiconductor Devices Sale Price by Company

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

3.4.1 Key Manufacturers Power Semiconductor Devices Product Location Distribution

3.4.2 Players Power Semiconductor Devices Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR POWER SEMICONDUCTOR DEVICES BY GEOGRAPHIC REGION

4.1 World Historic Power Semiconductor Devices Market Size by Geographic Region (2020-2025)

4.1.1 Global Power Semiconductor Devices Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Power Semiconductor Devices Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Power Semiconductor Devices Market Size by Country/Region (2020-2025)

4.2.1 Global Power Semiconductor Devices Annual Sales by Country/Region (2020-2025)

4.2.2 Global Power Semiconductor Devices Annual Revenue by Country/Region (2020-2025)

4.3 Americas Power Semiconductor Devices Sales Growth

4.4 APAC Power Semiconductor Devices Sales Growth

4.5 Europe Power Semiconductor Devices Sales Growth

4.6 Middle East & Africa Power Semiconductor Devices Sales Growth

5 AMERICAS

5.1 Americas Power Semiconductor Devices Sales by Country

5.1.1 Americas Power Semiconductor Devices Sales by Country (2020-2025)

5.1.2 Americas Power Semiconductor Devices Revenue by Country (2020-2025)

5.2 Americas Power Semiconductor Devices Sales by Type (2020-2025)

5.3 Americas Power Semiconductor Devices Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Power Semiconductor Devices Sales by Region

6.1.1 APAC Power Semiconductor Devices Sales by Region (2020-2025)

6.1.2 APAC Power Semiconductor Devices Revenue by Region (2020-2025)

6.2 APAC Power Semiconductor Devices Sales by Type (2020-2025)

6.3 APAC Power Semiconductor Devices Sales by Application (2020-2025)

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 Semiconductor Devices by Country

- 7.1.1 Europe Power Semiconductor Devices Sales by Country (2020-2025)
- 7.1.2 Europe Power Semiconductor Devices Revenue by Country (2020-2025)
- 7.2 Europe Power Semiconductor Devices Sales by Type (2020-2025)
- 7.3 Europe Power Semiconductor Devices Sales by Application (2020-2025)
- 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 Semiconductor Devices by Country
 - 8.1.1 Middle East & Africa Power Semiconductor Devices Sales by Country (2020-2025)
 - 8.1.2 Middle East & Africa Power Semiconductor Devices Revenue by Country (2020-2025)
- 8.2 Middle East & Africa Power Semiconductor Devices Sales by Type (2020-2025)
- 8.3 Middle East & Africa Power Semiconductor Devices Sales by Application (2020-2025)
- 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 Semiconductor Devices
- 10.3 Manufacturing Process Analysis of Power Semiconductor Devices
- 10.4 Industry Chain Structure of Power Semiconductor Devices

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Power Semiconductor Devices Distributors

11.3 Power Semiconductor Devices Customer

12 WORLD FORECAST REVIEW FOR POWER SEMICONDUCTOR DEVICES BY GEOGRAPHIC REGION

12.1 Global Power Semiconductor Devices Market Size Forecast by Region

12.1.1 Global Power Semiconductor Devices Forecast by Region (2026-2031)

12.1.2 Global Power Semiconductor Devices Annual Revenue Forecast by Region (2026-2031)

12.2 Americas Forecast by Country (2026-2031)

12.3 APAC Forecast by Region (2026-2031)

12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global Power Semiconductor Devices Forecast by Type (2026-2031)

12.7 Global Power Semiconductor Devices Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Infineon

13.1.1 Infineon Company Information

13.1.2 Infineon Power Semiconductor Devices Product Portfolios and Specifications

13.1.3 Infineon Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Semiconductor Devices Product Portfolios and Specifications

13.2.3 onsemi Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 onsemi Main Business Overview

13.2.5 onsemi Latest Developments

13.3 STMicroelectronics

- 13.3.1 STMicroelectronics Company Information
- 13.3.2 STMicroelectronics Power Semiconductor Devices Product Portfolios and Specifications
- 13.3.3 STMicroelectronics Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.3.4 STMicroelectronics Main Business Overview
- 13.3.5 STMicroelectronics Latest Developments
- 13.4 Mitsubishi Electric (Vincotech)
 - 13.4.1 Mitsubishi Electric (Vincotech) Company Information
 - 13.4.2 Mitsubishi Electric (Vincotech) Power Semiconductor Devices Product Portfolios and Specifications
 - 13.4.3 Mitsubishi Electric (Vincotech) Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 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 Semiconductor Devices Product Portfolios and Specifications
 - 13.5.3 Nexperia Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 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 Semiconductor Devices Product Portfolios and Specifications
 - 13.6.3 Vishay Intertechnology Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 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 Semiconductor Devices Product Portfolios and Specifications
 - 13.7.3 Toshiba Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 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 Semiconductor Devices Product Portfolios and Specifications

13.8.3 Fuji Electric Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Semiconductor Devices Product Portfolios and Specifications

13.9.3 Rohm Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Semiconductor Devices Product Portfolios and Specifications

13.10.3 Renesas Electronics Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Semiconductor Devices Product Portfolios and Specifications

13.11.3 Diodes Incorporated Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Semiconductor Devices Product Portfolios and Specifications

13.12.3 Littelfuse (IXYS) Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Semiconductor Devices Product Portfolios and Specifications

13.13.3 Alpha & Omega Semiconductor Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Power Semiconductor Devices Product Portfolios and Specifications

13.14.3 Semikron Danfoss Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Power Semiconductor Devices Product Portfolios and Specifications

13.15.3 Hitachi Power Semiconductor Device Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Semiconductor Devices Product Portfolios and Specifications

13.16.3 Microchip Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Semiconductor Devices Product Portfolios and Specifications

13.17.3 Sanken Electric Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Semiconductor Devices Product Portfolios and Specifications
- 13.18.3 Semtech Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
- 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 Semiconductor Devices Product Portfolios and Specifications
 - 13.19.3 MagnaChip Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 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 Power Semiconductor Devices Product Portfolios and Specifications
 - 13.20.3 Bosch Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 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 Power Semiconductor Devices Product Portfolios and Specifications
 - 13.21.3 Texas Instruments Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 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 Power Semiconductor Devices Product Portfolios and Specifications
 - 13.22.3 KEC Corporation Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.22.4 KEC Corporation Main Business Overview
 - 13.22.5 KEC Corporation Latest Developments
- 13.23 Wolfspeed
 - 13.23.1 Wolfspeed Company Information
 - 13.23.2 Wolfspeed Power Semiconductor Devices Product Portfolios and

Specifications

13.23.3 Wolfspeed Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

13.23.4 Wolfspeed Main Business Overview

13.23.5 Wolfspeed Latest Developments

13.24 PANJIT Group

13.24.1 PANJIT Group Company Information

13.24.2 PANJIT Group Power Semiconductor Devices Product Portfolios and Specifications

13.24.3 PANJIT Group Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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) Power Semiconductor Devices Product Portfolios and Specifications

13.25.3 Unisonic Technologies (UTC) Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Power Semiconductor Devices Product Portfolios and Specifications

13.26.3 Niko Semiconductor Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Power Semiconductor Devices Product Portfolios and Specifications

13.27.3 Hangzhou Silan Microelectronics Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Power Semiconductor Devices Product Portfolios and Specifications

13.28.3 Yangzhou Yangjie Electronic Technology Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Power Semiconductor Devices Product Portfolios and Specifications

13.29.3 China Resources Microelectronics Limited Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

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 Power Semiconductor Devices Product Portfolios and Specifications

13.30.3 Jilin Sino-Microelectronics Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

13.30.4 Jilin Sino-Microelectronics Main Business Overview

13.30.5 Jilin Sino-Microelectronics Latest Developments

13.31 StarPower

13.31.1 StarPower Company Information

13.31.2 StarPower Power Semiconductor Devices Product Portfolios and Specifications

13.31.3 StarPower Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

13.31.4 StarPower Main Business Overview

13.31.5 StarPower Latest Developments

13.32 NCEPOWER

13.32.1 NCEPOWER Company Information

13.32.2 NCEPOWER Power Semiconductor Devices Product Portfolios and Specifications

13.32.3 NCEPOWER Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

13.32.4 NCEPOWER Main Business Overview

13.32.5 NCEPOWER Latest Developments

13.33 Prisemi

- 13.33.1 Prisemi Company Information
- 13.33.2 Prisemi Power Semiconductor Devices Product Portfolios and Specifications
- 13.33.3 Prisemi Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.33.4 Prisemi Main Business Overview
- 13.33.5 Prisemi Latest Developments
- 13.34 Jiangsu Jiejie Microelectronics
 - 13.34.1 Jiangsu Jiejie Microelectronics Company Information
 - 13.34.2 Jiangsu Jiejie Microelectronics Power Semiconductor Devices Product Portfolios and Specifications
 - 13.34.3 Jiangsu Jiejie Microelectronics Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.34.4 Jiangsu Jiejie Microelectronics Main Business Overview
 - 13.34.5 Jiangsu Jiejie Microelectronics Latest Developments
- 13.35 OmniVision Technologies
 - 13.35.1 OmniVision Technologies Company Information
 - 13.35.2 OmniVision Technologies Power Semiconductor Devices Product Portfolios and Specifications
 - 13.35.3 OmniVision Technologies Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.35.4 OmniVision Technologies Main Business Overview
 - 13.35.5 OmniVision Technologies Latest Developments
- 13.36 Suzhou Good-Ark Electronics
 - 13.36.1 Suzhou Good-Ark Electronics Company Information
 - 13.36.2 Suzhou Good-Ark Electronics Power Semiconductor Devices Product Portfolios and Specifications
 - 13.36.3 Suzhou Good-Ark Electronics Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.36.4 Suzhou Good-Ark Electronics Main Business Overview
 - 13.36.5 Suzhou Good-Ark Electronics Latest Developments
- 13.37 Zhuzhou CRRC Times Electric
 - 13.37.1 Zhuzhou CRRC Times Electric Company Information
 - 13.37.2 Zhuzhou CRRC Times Electric Power Semiconductor Devices Product Portfolios and Specifications
 - 13.37.3 Zhuzhou CRRC Times Electric Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.37.4 Zhuzhou CRRC Times Electric Main Business Overview
 - 13.37.5 Zhuzhou CRRC Times Electric Latest Developments
- 13.38 WeEn Semiconductors

- 13.38.1 WeEn Semiconductors Company Information
- 13.38.2 WeEn Semiconductors Power Semiconductor Devices Product Portfolios and Specifications
- 13.38.3 WeEn Semiconductors Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.38.4 WeEn Semiconductors Main Business Overview
- 13.38.5 WeEn Semiconductors Latest Developments
- 13.39 Changzhou Galaxy Century Microelectronics
 - 13.39.1 Changzhou Galaxy Century Microelectronics Company Information
 - 13.39.2 Changzhou Galaxy Century Microelectronics Power Semiconductor Devices Product Portfolios and Specifications
 - 13.39.3 Changzhou Galaxy Century Microelectronics Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.39.4 Changzhou Galaxy Century Microelectronics Main Business Overview
 - 13.39.5 Changzhou Galaxy Century Microelectronics Latest Developments
- 13.40 MacMic Science & Technolog
 - 13.40.1 MacMic Science & Technolog Company Information
 - 13.40.2 MacMic Science & Technolog Power Semiconductor Devices Product Portfolios and Specifications
 - 13.40.3 MacMic Science & Technolog Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.40.4 MacMic Science & Technolog Main Business Overview
 - 13.40.5 MacMic Science & Technolog Latest Developments
- 13.41 BYD
 - 13.41.1 BYD Company Information
 - 13.41.2 BYD Power Semiconductor Devices Product Portfolios and Specifications
 - 13.41.3 BYD Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.41.4 BYD Main Business Overview
 - 13.41.5 BYD Latest Developments
- 13.42 Hubei TECH Semiconductors
 - 13.42.1 Hubei TECH Semiconductors Company Information
 - 13.42.2 Hubei TECH Semiconductors Power Semiconductor Devices Product Portfolios and Specifications
 - 13.42.3 Hubei TECH Semiconductors Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.42.4 Hubei TECH Semiconductors Main Business Overview
 - 13.42.5 Hubei TECH Semiconductors Latest Developments
- 13.43 BASiC Semiconductor

13.43.1 BASiC Semiconductor Company Information

13.43.2 BASiC Semiconductor Power Semiconductor Devices Product Portfolios and Specifications

13.43.3 BASiC Semiconductor Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

13.43.4 BASiC Semiconductor Main Business Overview

13.43.5 BASiC Semiconductor Latest Developments

13.44 Shandong Jingdao Microelectronics

13.44.1 Shandong Jingdao Microelectronics Company Information

13.44.2 Shandong Jingdao Microelectronics Power Semiconductor Devices Product Portfolios and Specifications

13.44.3 Shandong Jingdao Microelectronics Power Semiconductor Devices Sales, Revenue, Price and Gross Margin (2020-2025)

13.44.4 Shandong Jingdao Microelectronics Main Business Overview

13.44.5 Shandong Jingdao Microelectronics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Power Semiconductor Devices Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Power Semiconductor Devices Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ 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 Power Semiconductor Devices Sales by Type (2020-2025) & (K Units)

Table 9. Global Power Semiconductor Devices Sales Market Share by Type (2020-2025)

Table 10. Global Power Semiconductor Devices Revenue by Type (2020-2025) & (\$ million)

Table 11. Global Power Semiconductor Devices Revenue Market Share by Type (2020-2025)

Table 12. Global Power Semiconductor Devices Sale Price by Type (2020-2025) & (US\$/Unit)

Table 13. Global Power Semiconductor Devices Sale by Application (2020-2025) & (K Units)

Table 14. Global Power Semiconductor Devices Sale Market Share by Application (2020-2025)

Table 15. Global Power Semiconductor Devices Revenue by Application (2020-2025) & (\$ million)

Table 16. Global Power Semiconductor Devices Revenue Market Share by Application (2020-2025)

Table 17. Global Power Semiconductor Devices Sale Price by Application (2020-2025) & (US\$/Unit)

Table 18. Global Power Semiconductor Devices Sales by Company (2020-2025) & (K Units)

Table 19. Global Power Semiconductor Devices Sales Market Share by Company (2020-2025)

Table 20. Global Power Semiconductor Devices Revenue by Company (2020-2025) & (\$ millions)

Table 21. Global Power Semiconductor Devices Revenue Market Share by Company

(2020-2025)

Table 22. Global Power Semiconductor Devices Sale Price by Company (2020-2025) & (US\$/Unit)

Table 23. Key Manufacturers Power Semiconductor Devices Producing Area Distribution and Sales Area

Table 24. Players Power Semiconductor Devices Products Offered

Table 25. Power Semiconductor Devices Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 26. New Products and Potential Entrants

Table 27. Market M&A Activity & Strategy

Table 28. Global Power Semiconductor Devices Sales by Geographic Region (2020-2025) & (K Units)

Table 29. Global Power Semiconductor Devices Sales Market Share Geographic Region (2020-2025)

Table 30. Global Power Semiconductor Devices Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 31. Global Power Semiconductor Devices Revenue Market Share by Geographic Region (2020-2025)

Table 32. Global Power Semiconductor Devices Sales by Country/Region (2020-2025) & (K Units)

Table 33. Global Power Semiconductor Devices Sales Market Share by Country/Region (2020-2025)

Table 34. Global Power Semiconductor Devices Revenue by Country/Region (2020-2025) & (\$ millions)

Table 35. Global Power Semiconductor Devices Revenue Market Share by Country/Region (2020-2025)

Table 36. Americas Power Semiconductor Devices Sales by Country (2020-2025) & (K Units)

Table 37. Americas Power Semiconductor Devices Sales Market Share by Country (2020-2025)

Table 38. Americas Power Semiconductor Devices Revenue by Country (2020-2025) & (\$ millions)

Table 39. Americas Power Semiconductor Devices Sales by Type (2020-2025) & (K Units)

Table 40. Americas Power Semiconductor Devices Sales by Application (2020-2025) & (K Units)

Table 41. APAC Power Semiconductor Devices Sales by Region (2020-2025) & (K Units)

Table 42. APAC Power Semiconductor Devices Sales Market Share by Region

(2020-2025)

Table 43. APAC Power Semiconductor Devices Revenue by Region (2020-2025) & (\$ millions)

Table 44. APAC Power Semiconductor Devices Sales by Type (2020-2025) & (K Units)

Table 45. APAC Power Semiconductor Devices Sales by Application (2020-2025) & (K Units)

Table 46. Europe Power Semiconductor Devices Sales by Country (2020-2025) & (K Units)

Table 47. Europe Power Semiconductor Devices Revenue by Country (2020-2025) & (\$ millions)

Table 48. Europe Power Semiconductor Devices Sales by Type (2020-2025) & (K Units)

Table 49. Europe Power Semiconductor Devices Sales by Application (2020-2025) & (K Units)

Table 50. Middle East & Africa Power Semiconductor Devices Sales by Country (2020-2025) & (K Units)

Table 51. Middle East & Africa Power Semiconductor Devices Revenue Market Share by Country (2020-2025)

Table 52. Middle East & Africa Power Semiconductor Devices Sales by Type (2020-2025) & (K Units)

Table 53. Middle East & Africa Power Semiconductor Devices Sales by Application (2020-2025) & (K Units)

Table 54. Key Market Drivers & Growth Opportunities of Power Semiconductor Devices

Table 55. Key Market Challenges & Risks of Power Semiconductor Devices

Table 56. Key Industry Trends of Power Semiconductor Devices

Table 57. Power Semiconductor Devices Raw Material

Table 58. Key Suppliers of Raw Materials

Table 59. Power Semiconductor Devices Distributors List

Table 60. Power Semiconductor Devices Customer List

Table 61. Global Power Semiconductor Devices Sales Forecast by Region (2026-2031) & (K Units)

Table 62. Global Power Semiconductor Devices Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 63. Americas Power Semiconductor Devices Sales Forecast by Country (2026-2031) & (K Units)

Table 64. Americas Power Semiconductor Devices Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 65. APAC Power Semiconductor Devices Sales Forecast by Region (2026-2031) & (K Units)

Table 66. APAC Power Semiconductor Devices Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 67. Europe Power Semiconductor Devices Sales Forecast by Country (2026-2031) & (K Units)

Table 68. Europe Power Semiconductor Devices Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 69. Middle East & Africa Power Semiconductor Devices Sales Forecast by Country (2026-2031) & (K Units)

Table 70. Middle East & Africa Power Semiconductor Devices Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 71. Global Power Semiconductor Devices Sales Forecast by Type (2026-2031) & (K Units)

Table 72. Global Power Semiconductor Devices Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 73. Global Power Semiconductor Devices Sales Forecast by Application (2026-2031) & (K Units)

Table 74. Global Power Semiconductor Devices Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 75. Infineon Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 76. Infineon Power Semiconductor Devices Product Portfolios and Specifications

Table 77. Infineon Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 78. Infineon Main Business

Table 79. Infineon Latest Developments

Table 80. onsemi Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 81. onsemi Power Semiconductor Devices Product Portfolios and Specifications

Table 82. onsemi Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 83. onsemi Main Business

Table 84. onsemi Latest Developments

Table 85. STMicroelectronics Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 86. STMicroelectronics Power Semiconductor Devices Product Portfolios and Specifications

Table 87. STMicroelectronics Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 88. STMicroelectronics Main Business

- Table 89. STMicroelectronics Latest Developments
- Table 90. Mitsubishi Electric (Vincotech) Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors
- Table 91. Mitsubishi Electric (Vincotech) Power Semiconductor Devices Product Portfolios and Specifications
- Table 92. Mitsubishi Electric (Vincotech) Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
- Table 93. Mitsubishi Electric (Vincotech) Main Business
- Table 94. Mitsubishi Electric (Vincotech) Latest Developments
- Table 95. Nexperia Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors
- Table 96. Nexperia Power Semiconductor Devices Product Portfolios and Specifications
- Table 97. Nexperia Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
- Table 98. Nexperia Main Business
- Table 99. Nexperia Latest Developments
- Table 100. Vishay Intertechnology Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors
- Table 101. Vishay Intertechnology Power Semiconductor Devices Product Portfolios and Specifications
- Table 102. Vishay Intertechnology Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
- Table 103. Vishay Intertechnology Main Business
- Table 104. Vishay Intertechnology Latest Developments
- Table 105. Toshiba Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors
- Table 106. Toshiba Power Semiconductor Devices Product Portfolios and Specifications
- Table 107. Toshiba Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
- Table 108. Toshiba Main Business
- Table 109. Toshiba Latest Developments
- Table 110. Fuji Electric Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors
- Table 111. Fuji Electric Power Semiconductor Devices Product Portfolios and Specifications
- Table 112. Fuji Electric Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
- Table 113. Fuji Electric Main Business

Table 114. Fuji Electric Latest Developments

Table 115. Rohm Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 116. Rohm Power Semiconductor Devices Product Portfolios and Specifications

Table 117. Rohm Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 118. Rohm Main Business

Table 119. Rohm Latest Developments

Table 120. Renesas Electronics Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 121. Renesas Electronics Power Semiconductor Devices Product Portfolios and Specifications

Table 122. Renesas Electronics Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 123. Renesas Electronics Main Business

Table 124. Renesas Electronics Latest Developments

Table 125. Diodes Incorporated Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 126. Diodes Incorporated Power Semiconductor Devices Product Portfolios and Specifications

Table 127. Diodes Incorporated Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 128. Diodes Incorporated Main Business

Table 129. Diodes Incorporated Latest Developments

Table 130. Littelfuse (IXYS) Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 131. Littelfuse (IXYS) Power Semiconductor Devices Product Portfolios and Specifications

Table 132. Littelfuse (IXYS) Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 133. Littelfuse (IXYS) Main Business

Table 134. Littelfuse (IXYS) Latest Developments

Table 135. Alpha & Omega Semiconductor Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 136. Alpha & Omega Semiconductor Power Semiconductor Devices Product Portfolios and Specifications

Table 137. Alpha & Omega Semiconductor Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 138. Alpha & Omega Semiconductor Main Business

- Table 139. Alpha & Omega Semiconductor Latest Developments
- Table 140. Semikron Danfoss Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors
- Table 141. Semikron Danfoss Power Semiconductor Devices Product Portfolios and Specifications
- Table 142. Semikron Danfoss Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
- Table 143. Semikron Danfoss Main Business
- Table 144. Semikron Danfoss Latest Developments
- Table 145. Hitachi Power Semiconductor Device Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors
- Table 146. Hitachi Power Semiconductor Device Power Semiconductor Devices Product Portfolios and Specifications
- Table 147. Hitachi Power Semiconductor Device Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
- Table 148. Hitachi Power Semiconductor Device Main Business
- Table 149. Hitachi Power Semiconductor Device Latest Developments
- Table 150. Microchip Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors
- Table 151. Microchip Power Semiconductor Devices Product Portfolios and Specifications
- Table 152. Microchip Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
- Table 153. Microchip Main Business
- Table 154. Microchip Latest Developments
- Table 155. Sanken Electric Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors
- Table 156. Sanken Electric Power Semiconductor Devices Product Portfolios and Specifications
- Table 157. Sanken Electric Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
- Table 158. Sanken Electric Main Business
- Table 159. Sanken Electric Latest Developments
- Table 160. Semtech Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors
- Table 161. Semtech Power Semiconductor Devices Product Portfolios and Specifications
- Table 162. Semtech Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 163. Semtech Main Business

Table 164. Semtech Latest Developments

Table 165. MagnaChip Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 166. MagnaChip Power Semiconductor Devices Product Portfolios and Specifications

Table 167. MagnaChip Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 168. MagnaChip Main Business

Table 169. MagnaChip Latest Developments

Table 170. Bosch Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 171. Bosch Power Semiconductor Devices Product Portfolios and Specifications

Table 172. Bosch Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 173. Bosch Main Business

Table 174. Bosch Latest Developments

Table 175. Texas Instruments Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 176. Texas Instruments Power Semiconductor Devices Product Portfolios and Specifications

Table 177. Texas Instruments Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 178. Texas Instruments Main Business

Table 179. Texas Instruments Latest Developments

Table 180. KEC Corporation Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 181. KEC Corporation Power Semiconductor Devices Product Portfolios and Specifications

Table 182. KEC Corporation Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 183. KEC Corporation Main Business

Table 184. KEC Corporation Latest Developments

Table 185. Wolfspeed Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 186. Wolfspeed Power Semiconductor Devices Product Portfolios and Specifications

Table 187. Wolfspeed Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 188. Wolfspeed Main Business

Table 189. Wolfspeed Latest Developments

Table 190. PANJIT Group Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 191. PANJIT Group Power Semiconductor Devices Product Portfolios and Specifications

Table 192. PANJIT Group Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 193. PANJIT Group Main Business

Table 194. PANJIT Group Latest Developments

Table 195. Unisonic Technologies (UTC) Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 196. Unisonic Technologies (UTC) Power Semiconductor Devices Product Portfolios and Specifications

Table 197. Unisonic Technologies (UTC) Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 198. Unisonic Technologies (UTC) Main Business

Table 199. Unisonic Technologies (UTC) Latest Developments

Table 200. Niko Semiconductor Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 201. Niko Semiconductor Power Semiconductor Devices Product Portfolios and Specifications

Table 202. Niko Semiconductor Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 203. Niko Semiconductor Main Business

Table 204. Niko Semiconductor Latest Developments

Table 205. Hangzhou Silan Microelectronics Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 206. Hangzhou Silan Microelectronics Power Semiconductor Devices Product Portfolios and Specifications

Table 207. Hangzhou Silan Microelectronics Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 208. Hangzhou Silan Microelectronics Main Business

Table 209. Hangzhou Silan Microelectronics Latest Developments

Table 210. Yangzhou Yangjie Electronic Technology Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 211. Yangzhou Yangjie Electronic Technology Power Semiconductor Devices Product Portfolios and Specifications

Table 212. Yangzhou Yangjie Electronic Technology Power Semiconductor Devices

Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 213. Yangzhou Yangjie Electronic Technology Main Business

Table 214. Yangzhou Yangjie Electronic Technology Latest Developments

Table 215. China Resources Microelectronics Limited Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 216. China Resources Microelectronics Limited Power Semiconductor Devices Product Portfolios and Specifications

Table 217. China Resources Microelectronics Limited Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 218. China Resources Microelectronics Limited Main Business

Table 219. China Resources Microelectronics Limited Latest Developments

Table 220. Jilin Sino-Microelectronics Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 221. Jilin Sino-Microelectronics Power Semiconductor Devices Product Portfolios and Specifications

Table 222. Jilin Sino-Microelectronics Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 223. Jilin Sino-Microelectronics Main Business

Table 224. Jilin Sino-Microelectronics Latest Developments

Table 225. StarPower Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 226. StarPower Power Semiconductor Devices Product Portfolios and Specifications

Table 227. StarPower Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 228. StarPower Main Business

Table 229. StarPower Latest Developments

Table 230. NCEPOWER Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 231. NCEPOWER Power Semiconductor Devices Product Portfolios and Specifications

Table 232. NCEPOWER Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 233. NCEPOWER Main Business

Table 234. NCEPOWER Latest Developments

Table 235. Prisemi Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 236. Prisemi Power Semiconductor Devices Product Portfolios and Specifications

Table 237. Prisemi Power Semiconductor Devices Sales (K Units), Revenue (\$ Million),

Price (US\$/Unit) and Gross Margin (2020-2025)

Table 238. Prisemi Main Business

Table 239. Prisemi Latest Developments

Table 240. Jiangsu Jiejie Microelectronics Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 241. Jiangsu Jiejie Microelectronics Power Semiconductor Devices Product Portfolios and Specifications

Table 242. Jiangsu Jiejie Microelectronics Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 243. Jiangsu Jiejie Microelectronics Main Business

Table 244. Jiangsu Jiejie Microelectronics Latest Developments

Table 245. OmniVision Technologies Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 246. OmniVision Technologies Power Semiconductor Devices Product Portfolios and Specifications

Table 247. OmniVision Technologies Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 248. OmniVision Technologies Main Business

Table 249. OmniVision Technologies Latest Developments

Table 250. Suzhou Good-Ark Electronics Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 251. Suzhou Good-Ark Electronics Power Semiconductor Devices Product Portfolios and Specifications

Table 252. Suzhou Good-Ark Electronics Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 253. Suzhou Good-Ark Electronics Main Business

Table 254. Suzhou Good-Ark Electronics Latest Developments

Table 255. Zhuzhou CRRC Times Electric Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 256. Zhuzhou CRRC Times Electric Power Semiconductor Devices Product Portfolios and Specifications

Table 257. Zhuzhou CRRC Times Electric Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 258. Zhuzhou CRRC Times Electric Main Business

Table 259. Zhuzhou CRRC Times Electric Latest Developments

Table 260. WeEn Semiconductors Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 261. WeEn Semiconductors Power Semiconductor Devices Product Portfolios and Specifications

Table 262. WeEn Semiconductors Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 263. WeEn Semiconductors Main Business

Table 264. WeEn Semiconductors Latest Developments

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

Table 266. Changzhou Galaxy Century Microelectronics Power Semiconductor Devices Product Portfolios and Specifications

Table 267. Changzhou Galaxy Century Microelectronics Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 268. Changzhou Galaxy Century Microelectronics Main Business

Table 269. Changzhou Galaxy Century Microelectronics Latest Developments

Table 270. MacMic Science & Technolog Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 271. MacMic Science & Technolog Power Semiconductor Devices Product Portfolios and Specifications

Table 272. MacMic Science & Technolog Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 273. MacMic Science & Technolog Main Business

Table 274. MacMic Science & Technolog Latest Developments

Table 275. BYD Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 276. BYD Power Semiconductor Devices Product Portfolios and Specifications

Table 277. BYD Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 278. BYD Main Business

Table 279. BYD Latest Developments

Table 280. Hubei TECH Semiconductors Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 281. Hubei TECH Semiconductors Power Semiconductor Devices Product Portfolios and Specifications

Table 282. Hubei TECH Semiconductors Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 283. Hubei TECH Semiconductors Main Business

Table 284. Hubei TECH Semiconductors Latest Developments

Table 285. BASiC Semiconductor Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 286. BASiC Semiconductor Power Semiconductor Devices Product Portfolios and Specifications

Table 287. BASiC Semiconductor Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 288. BASiC Semiconductor Main Business

Table 289. BASiC Semiconductor Latest Developments

Table 290. Shandong Jingdao Microelectronics Basic Information, Power Semiconductor Devices Manufacturing Base, Sales Area and Its Competitors

Table 291. Shandong Jingdao Microelectronics Power Semiconductor Devices Product Portfolios and Specifications

Table 292. Shandong Jingdao Microelectronics Power Semiconductor Devices Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 293. Shandong Jingdao Microelectronics Main Business

Table 294. Shandong Jingdao Microelectronics Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Power Semiconductor Devices
- Figure 2. Power Semiconductor Devices Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Power Semiconductor Devices Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global Power Semiconductor Devices Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Power Semiconductor Devices Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Power Semiconductor Devices Sales Market Share by Country/Region (2024)
- Figure 10. Power Semiconductor Devices Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Diodes
- Figure 12. Product Picture of IGBT
- Figure 13. Product Picture of MOSFET
- Figure 14. Product Picture of BJT
- Figure 15. Product Picture of Thyristor
- Figure 16. Global Power Semiconductor Devices Sales Market Share by Type in 2025
- Figure 17. Global Power Semiconductor Devices Revenue Market Share by Type (2020-2025)
- Figure 18. Power Semiconductor Devices Consumed in Industrial Control
- Figure 19. Global Power Semiconductor Devices Market: Industrial Control (2020-2025) & (K Units)
- Figure 20. Power Semiconductor Devices Consumed in Automotive
- Figure 21. Global Power Semiconductor Devices Market: Automotive (2020-2025) & (K Units)
- Figure 22. Power Semiconductor Devices Consumed in Consumer Electronics
- Figure 23. Global Power Semiconductor Devices Market: Consumer Electronics (2020-2025) & (K Units)
- Figure 24. Power Semiconductor Devices Consumed in Communication
- Figure 25. Global Power Semiconductor Devices Market: Communication (2020-2025) & (K Units)
- Figure 26. Power Semiconductor Devices Consumed in Grid and Energy
- Figure 27. Global Power Semiconductor Devices Market: Grid and Energy (2020-2025)

& (K Units)

Figure 28. Power Semiconductor Devices Consumed in Others

Figure 29. Global Power Semiconductor Devices Market: Others (2020-2025) & (K Units)

Figure 30. Global Power Semiconductor Devices Sale Market Share by Application (2024)

Figure 31. Global Power Semiconductor Devices Revenue Market Share by Application in 2025

Figure 32. Power Semiconductor Devices Sales by Company in 2025 (K Units)

Figure 33. Global Power Semiconductor Devices Sales Market Share by Company in 2025

Figure 34. Power Semiconductor Devices Revenue by Company in 2025 (\$ millions)

Figure 35. Global Power Semiconductor Devices Revenue Market Share by Company in 2025

Figure 36. Global Power Semiconductor Devices Sales Market Share by Geographic Region (2020-2025)

Figure 37. Global Power Semiconductor Devices Revenue Market Share by Geographic Region in 2025

Figure 38. Americas Power Semiconductor Devices Sales 2020-2025 (K Units)

Figure 39. Americas Power Semiconductor Devices Revenue 2020-2025 (\$ millions)

Figure 40. APAC Power Semiconductor Devices Sales 2020-2025 (K Units)

Figure 41. APAC Power Semiconductor Devices Revenue 2020-2025 (\$ millions)

Figure 42. Europe Power Semiconductor Devices Sales 2020-2025 (K Units)

Figure 43. Europe Power Semiconductor Devices Revenue 2020-2025 (\$ millions)

Figure 44. Middle East & Africa Power Semiconductor Devices Sales 2020-2025 (K Units)

Figure 45. Middle East & Africa Power Semiconductor Devices Revenue 2020-2025 (\$ millions)

Figure 46. Americas Power Semiconductor Devices Sales Market Share by Country in 2025

Figure 47. Americas Power Semiconductor Devices Revenue Market Share by Country (2020-2025)

Figure 48. Americas Power Semiconductor Devices Sales Market Share by Type (2020-2025)

Figure 49. Americas Power Semiconductor Devices Sales Market Share by Application (2020-2025)

Figure 50. United States Power Semiconductor Devices Revenue Growth 2020-2025 (\$ millions)

Figure 51. Canada Power Semiconductor Devices Revenue Growth 2020-2025 (\$

millions)

Figure 52. Mexico Power Semiconductor Devices Revenue Growth 2020-2025 (\$ millions)

Figure 53. Brazil Power Semiconductor Devices Revenue Growth 2020-2025 (\$ millions)

Figure 54. APAC Power Semiconductor Devices Sales Market Share by Region in 2025

Figure 55. APAC Power Semiconductor Devices Revenue Market Share by Region (2020-2025)

Figure 56. APAC Power Semiconductor Devices Sales Market Share by Type (2020-2025)

Figure 57. APAC Power Semiconductor Devices Sales Market Share by Application (2020-2025)

Figure 58. China Power Semiconductor Devices Revenue Growth 2020-2025 (\$ millions)

Figure 59. Japan Power Semiconductor Devices Revenue Growth 2020-2025 (\$ millions)

Figure 60. South Korea Power Semiconductor Devices Revenue Growth 2020-2025 (\$ millions)

Figure 61. Southeast Asia Power Semiconductor Devices Revenue Growth 2020-2025 (\$ millions)

Figure 62. India Power Semiconductor Devices Revenue Growth 2020-2025 (\$ millions)

Figure 63. Australia Power Semiconductor Devices Revenue Growth 2020-2025 (\$ millions)

Figure 64. China Taiwan Power Semiconductor Devices Revenue Growth 2020-2025 (\$ millions)

Figure 65. Europe Power Semiconductor Devices Sales Market Share by Country in 2025

Figure 66. Europe Power Semiconductor Devices Revenue Market Share by Country (2020-2025)

Figure 67. Europe Power Semiconductor Devices Sales Market Share by Type (2020-2025)

Figure 68. Europe Power Semiconductor Devices Sales Market Share by Application (2020-2025)

Figure 69. Germany Power Semiconductor Devices Revenue Growth 2020-2025 (\$ millions)

Figure 70. France Power Semiconductor Devices Revenue Growth 2020-2025 (\$ millions)

Figure 71. UK Power Semiconductor Devices Revenue Growth 2020-2025 (\$ millions)

Figure 72. Italy Power Semiconductor Devices Revenue Growth 2020-2025 (\$ millions)

Figure 73. Russia Power Semiconducto

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