

# Global Semiconductor Discrete Devices Market Growth 2024-2030

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## Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

According to our LPI (LP Information) latest study, the global Semiconductor Discrete Devices market size was valued at US\$ 34510 million in 2023. With growing demand in downstream market, the Semiconductor Discrete Devices 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 Semiconductor Discrete Devices market. Semiconductor Discrete Devices are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Semiconductor Discrete Devices. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Semiconductor Discrete Devices 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 global semiconductor discrete production region mainly distributes in North America, Europe, China, Japan, South Korea, Taiwan (China), Southeast Asia, etc, and high-end products are mainly dominated by European, North American and Chinese manufacturers, the key manufacturers are Infineon, ON Semiconductor, ST Microelectronics, Mitsubishi Electric (Vincotech), Nexperia, Vishay Technology, Toshiba, Fuji Electric, Renesas Electronics and Diodes Incorporated. The top four vendors together account for more than 35% of the market share, with the largest vendor being Nexperia, accounting for 15% of the market share. In terms of product classification, MOSFET have the largest market share with 35%, followed by IGBT and diodes. In terms of its application areas, the automotive industry is its top application area, accounting for 35% of the market share, followed by the grid and energy sector, accounting for 25%.

#### Key Features:

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

**Market Size and Growth:** The research report provide an overview of the current size and growth of the Semiconductor Discrete Devices 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 Semiconductor Discrete Devices market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

**Competitive Landscape:** The research report provides analysis of the competitive landscape within the Semiconductor Discrete Devices 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 Semiconductor Discrete Devices industry. This

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

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

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

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

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

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

## Market Segmentation:

Semiconductor Discrete Devices 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

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 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 Semiconductor Discrete Devices market?

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

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

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

How does Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Annual Sales 2019-2030
  - 2.1.2 World Current & Future Analysis for Semiconductor Discrete Devices by Geographic Region, 2019, 2023 & 2030
  - 2.1.3 World Current & Future Analysis for Semiconductor Discrete Devices by Country/Region, 2019, 2023 & 2030
- 2.2 Semiconductor Discrete 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 Semiconductor Discrete Devices Sales by Type
  - 2.3.1 Global Semiconductor Discrete Devices Sales Market Share by Type (2019-2024)
  - 2.3.2 Global Semiconductor Discrete Devices Revenue and Market Share by Type (2019-2024)
  - 2.3.3 Global Semiconductor Discrete Devices Sale Price by Type (2019-2024)
- 2.4 Semiconductor Discrete 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 Semiconductor Discrete Devices Sales by Application

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

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

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

## **3 GLOBAL SEMICONDUCTOR DISCRETE DEVICES BY COMPANY**

### 3.1 Global Semiconductor Discrete Devices Breakdown Data by Company

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

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

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

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

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

### 3.3 Global Semiconductor Discrete Devices Sale Price by Company

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

#### 3.4.1 Key Manufacturers Semiconductor Discrete Devices Product Location Distribution

#### 3.4.2 Players Semiconductor Discrete Devices 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 SEMICONDUCTOR DISCRETE DEVICES BY GEOGRAPHIC REGION**

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

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

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

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

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

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

## 4.3 Americas Semiconductor Discrete Devices Sales Growth

## 4.4 APAC Semiconductor Discrete Devices Sales Growth

## 4.5 Europe Semiconductor Discrete Devices Sales Growth

## 4.6 Middle East & Africa Semiconductor Discrete Devices Sales Growth

# 5 AMERICAS

## 5.1 Americas Semiconductor Discrete Devices Sales by Country

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

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

## 5.2 Americas Semiconductor Discrete Devices Sales by Type

## 5.3 Americas Semiconductor Discrete Devices Sales by Application

## 5.4 United States

## 5.5 Canada

## 5.6 Mexico

## 5.7 Brazil

# 6 APAC

## 6.1 APAC Semiconductor Discrete Devices Sales by Region

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

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

## 6.2 APAC Semiconductor Discrete Devices Sales by Type

## 6.3 APAC Semiconductor Discrete Devices 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 Semiconductor Discrete Devices by Country

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

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

## 7.2 Europe Semiconductor Discrete Devices Sales by Type

## 7.3 Europe Semiconductor Discrete Devices 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 Semiconductor Discrete Devices by Country

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

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

## 8.2 Middle East & Africa Semiconductor Discrete Devices Sales by Type

## 8.3 Middle East & Africa Semiconductor Discrete Devices 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 Semiconductor Discrete Devices

## 10.3 Manufacturing Process Analysis of Semiconductor Discrete Devices

## 10.4 Industry Chain Structure of Semiconductor Discrete Devices

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

### 11.1 Sales Channel

#### 11.1.1 Direct Channels

#### 11.1.2 Indirect Channels

### 11.2 Semiconductor Discrete Devices Distributors

### 11.3 Semiconductor Discrete Devices Customer

## **12 WORLD FORECAST REVIEW FOR SEMICONDUCTOR DISCRETE DEVICES BY GEOGRAPHIC REGION**

### 12.1 Global Semiconductor Discrete Devices Market Size Forecast by Region

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

#### 12.1.2 Global Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Forecast by Type

### 12.7 Global Semiconductor Discrete Devices Forecast by Application

## **13 KEY PLAYERS ANALYSIS**

### 13.1 Infineon

#### 13.1.1 Infineon Company Information

#### 13.1.2 Infineon Semiconductor Discrete Devices Product Portfolios and Specifications

#### 13.1.3 Infineon Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications

#### 13.2.3 ON Semiconductor Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.3.3 ST Microelectronics Semiconductor Discrete Devices 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) Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.4.3 Mitsubishi Electric (Vincotech) Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.5.3 Nexperia Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.6.3 Vishay Intertechnology Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.7.3 Toshiba Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications

### 13.8.3 Fuji Electric Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications

### 13.9.3 Rohm Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications

### 13.10.3 Renesas Electronics Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications

### 13.11.3 Diodes Incorporated Semiconductor Discrete Devices 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) Semiconductor Discrete Devices Product Portfolios and Specifications

### 13.12.3 Littelfuse (IXYS) Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications

#### 13.13.3 Alpha & Omega Semiconductor Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications

#### 13.14.3 SEMIKRON Danfoss Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications

#### 13.15.3 Hitachi Power Semiconductor Device Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications

#### 13.16.3 Microchip Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications

#### 13.17.3 Sanken Electric Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.18.3 Semtech Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.19.3 MagnaChip Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.20.3 Bosch Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.21.3 Texas Instruments Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.22.3 KEC Corporation Semiconductor Discrete Devices 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) Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.23.3 Cree (Wolfspeed) Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.24.3 PANJIT Group Semiconductor Discrete Devices 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) Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.25.3 Unisonic Technologies (UTC) Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.26.3 Niko Semiconductor Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.27.3 Hangzhou Silan Microelectronics Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.28.3 Yangzhou Yangjie Electronic Technology Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.29.3 China Resources Microelectronics Limited Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Product Portfolios and Specifications
  - 13.30.3 Jilin Sino-Microelectronics Semiconductor Discrete Devices 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. Semiconductor Discrete Devices Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)

Table 2. Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Sales by Type (2019-2024) & (Million Pieces)

Table 9. Global Semiconductor Discrete Devices Sales Market Share by Type (2019-2024)

Table 10. Global Semiconductor Discrete Devices Revenue by Type (2019-2024) & (\$ million)

Table 11. Global Semiconductor Discrete Devices Revenue Market Share by Type (2019-2024)

Table 12. Global Semiconductor Discrete Devices Sale Price by Type (2019-2024) & (US\$/K Pieces)

Table 13. Global Semiconductor Discrete Devices Sales by Application (2019-2024) & (Million Pieces)

Table 14. Global Semiconductor Discrete Devices Sales Market Share by Application (2019-2024)

Table 15. Global Semiconductor Discrete Devices Revenue by Application (2019-2024)

Table 16. Global Semiconductor Discrete Devices Revenue Market Share by Application (2019-2024)

Table 17. Global Semiconductor Discrete Devices Sale Price by Application (2019-2024) & (US\$/K Pieces)

Table 18. Global Semiconductor Discrete Devices Sales by Company (2019-2024) & (Million Pieces)

Table 19. Global Semiconductor Discrete Devices Sales Market Share by Company (2019-2024)

Table 20. Global Semiconductor Discrete Devices Revenue by Company (2019-2024) (\$ Millions)

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

(2019-2024)

Table 22. Global Semiconductor Discrete Devices Sale Price by Company (2019-2024) & (US\$/K Pieces)

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

Table 24. Players Semiconductor Discrete Devices Products Offered

Table 25. Semiconductor Discrete Devices Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

Table 26. New Products and Potential Entrants

Table 27. Mergers & Acquisitions, Expansion

Table 28. Global Semiconductor Discrete Devices Sales by Geographic Region (2019-2024) & (Million Pieces)

Table 29. Global Semiconductor Discrete Devices Sales Market Share Geographic Region (2019-2024)

Table 30. Global Semiconductor Discrete Devices Revenue by Geographic Region (2019-2024) & (\$ millions)

Table 31. Global Semiconductor Discrete Devices Revenue Market Share by Geographic Region (2019-2024)

Table 32. Global Semiconductor Discrete Devices Sales by Country/Region (2019-2024) & (Million Pieces)

Table 33. Global Semiconductor Discrete Devices Sales Market Share by Country/Region (2019-2024)

Table 34. Global Semiconductor Discrete Devices Revenue by Country/Region (2019-2024) & (\$ millions)

Table 35. Global Semiconductor Discrete Devices Revenue Market Share by Country/Region (2019-2024)

Table 36. Americas Semiconductor Discrete Devices Sales by Country (2019-2024) & (Million Pieces)

Table 37. Americas Semiconductor Discrete Devices Sales Market Share by Country (2019-2024)

Table 38. Americas Semiconductor Discrete Devices Revenue by Country (2019-2024) & (\$ Millions)

Table 39. Americas Semiconductor Discrete Devices Revenue Market Share by Country (2019-2024)

Table 40. Americas Semiconductor Discrete Devices Sales by Type (2019-2024) & (Million Pieces)

Table 41. Americas Semiconductor Discrete Devices Sales by Application (2019-2024) & (Million Pieces)

Table 42. APAC Semiconductor Discrete Devices Sales by Region (2019-2024) &

(Million Pieces)

Table 43. APAC Semiconductor Discrete Devices Sales Market Share by Region (2019-2024)

Table 44. APAC Semiconductor Discrete Devices Revenue by Region (2019-2024) & (\$ Millions)

Table 45. APAC Semiconductor Discrete Devices Revenue Market Share by Region (2019-2024)

Table 46. APAC Semiconductor Discrete Devices Sales by Type (2019-2024) & (Million Pieces)

Table 47. APAC Semiconductor Discrete Devices Sales by Application (2019-2024) & (Million Pieces)

Table 48. Europe Semiconductor Discrete Devices Sales by Country (2019-2024) & (Million Pieces)

Table 49. Europe Semiconductor Discrete Devices Sales Market Share by Country (2019-2024)

Table 50. Europe Semiconductor Discrete Devices Revenue by Country (2019-2024) & (\$ Millions)

Table 51. Europe Semiconductor Discrete Devices Revenue Market Share by Country (2019-2024)

Table 52. Europe Semiconductor Discrete Devices Sales by Type (2019-2024) & (Million Pieces)

Table 53. Europe Semiconductor Discrete Devices Sales by Application (2019-2024) & (Million Pieces)

Table 54. Middle East & Africa Semiconductor Discrete Devices Sales by Country (2019-2024) & (Million Pieces)

Table 55. Middle East & Africa Semiconductor Discrete Devices Sales Market Share by Country (2019-2024)

Table 56. Middle East & Africa Semiconductor Discrete Devices Revenue by Country (2019-2024) & (\$ Millions)

Table 57. Middle East & Africa Semiconductor Discrete Devices Revenue Market Share by Country (2019-2024)

Table 58. Middle East & Africa Semiconductor Discrete Devices Sales by Type (2019-2024) & (Million Pieces)

Table 59. Middle East & Africa Semiconductor Discrete Devices Sales by Application (2019-2024) & (Million Pieces)

Table 60. Key Market Drivers & Growth Opportunities of Semiconductor Discrete Devices

Table 61. Key Market Challenges & Risks of Semiconductor Discrete Devices

Table 62. Key Industry Trends of Semiconductor Discrete Devices

Table 63. Semiconductor Discrete Devices Raw Material

Table 64. Key Suppliers of Raw Materials

Table 65. Semiconductor Discrete Devices Distributors List

Table 66. Semiconductor Discrete Devices Customer List

Table 67. Global Semiconductor Discrete Devices Sales Forecast by Region  
(2025-2030) & (Million Pieces)

Table 68. Global Semiconductor Discrete Devices Revenue Forecast by Region  
(2025-2030) & (\$ millions)

Table 69. Americas Semiconductor Discrete Devices Sales Forecast by Country  
(2025-2030) & (Million Pieces)

Table 70. Americas Semiconductor Discrete Devices Revenue Forecast by Country  
(2025-2030) & (\$ millions)

Table 71. APAC Semiconductor Discrete Devices Sales Forecast by Region  
(2025-2030) & (Million Pieces)

Table 72. APAC Semiconductor Discrete Devices Revenue Forecast by Region  
(2025-2030) & (\$ millions)

Table 73. Europe Semiconductor Discrete Devices Sales Forecast by Country  
(2025-2030) & (Million Pieces)

Table 74. Europe Semiconductor Discrete Devices Revenue Forecast by Country  
(2025-2030) & (\$ millions)

Table 75. Middle East & Africa Semiconductor Discrete Devices Sales Forecast by  
Country (2025-2030) & (Million Pieces)

Table 76. Middle East & Africa Semiconductor Discrete Devices Revenue Forecast by  
Country (2025-2030) & (\$ millions)

Table 77. Global Semiconductor Discrete Devices Sales Forecast by Type (2025-2030)  
& (Million Pieces)

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

Table 79. Global Semiconductor Discrete Devices Sales Forecast by Application  
(2025-2030) & (Million Pieces)

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

Table 81. Infineon Basic Information, Semiconductor Discrete Devices Manufacturing  
Base, Sales Area and Its Competitors

Table 82. Infineon Semiconductor Discrete Devices Product Portfolios and  
Specifications

Table 83. Infineon Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$  
Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 84. Infineon Main Business

Table 85. Infineon Latest Developments

Table 86. ON Semiconductor Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 87. ON Semiconductor Semiconductor Discrete Devices Product Portfolios and Specifications

Table 88. ON Semiconductor Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 89. ON Semiconductor Main Business

Table 90. ON Semiconductor Latest Developments

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

Table 92. ST Microelectronics Semiconductor Discrete Devices Product Portfolios and Specifications

Table 93. ST Microelectronics Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 94. ST Microelectronics Main Business

Table 95. ST Microelectronics Latest Developments

Table 96. Mitsubishi Electric (Vincotech) Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 97. Mitsubishi Electric (Vincotech) Semiconductor Discrete Devices Product Portfolios and Specifications

Table 98. Mitsubishi Electric (Vincotech) Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 99. Mitsubishi Electric (Vincotech) Main Business

Table 100. Mitsubishi Electric (Vincotech) Latest Developments

Table 101. Nexperia Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 102. Nexperia Semiconductor Discrete Devices Product Portfolios and Specifications

Table 103. Nexperia Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 104. Nexperia Main Business

Table 105. Nexperia Latest Developments

Table 106. Vishay Intertechnology Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 107. Vishay Intertechnology Semiconductor Discrete Devices Product Portfolios and Specifications

Table 108. Vishay Intertechnology Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 109. Vishay Intertechnology Main Business

Table 110. Vishay Intertechnology Latest Developments

Table 111. Toshiba Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 112. Toshiba Semiconductor Discrete Devices Product Portfolios and Specifications

Table 113. Toshiba Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 114. Toshiba Main Business

Table 115. Toshiba Latest Developments

Table 116. Fuji Electric Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 117. Fuji Electric Semiconductor Discrete Devices Product Portfolios and Specifications

Table 118. Fuji Electric Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 119. Fuji Electric Main Business

Table 120. Fuji Electric Latest Developments

Table 121. Rohm Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 122. Rohm Semiconductor Discrete Devices Product Portfolios and Specifications

Table 123. Rohm Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 124. Rohm Main Business

Table 125. Rohm Latest Developments

Table 126. Renesas Electronics Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 127. Renesas Electronics Semiconductor Discrete Devices Product Portfolios and Specifications

Table 128. Renesas Electronics Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 129. Renesas Electronics Main Business

Table 130. Renesas Electronics Latest Developments

Table 131. Diodes Incorporated Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 132. Diodes Incorporated Semiconductor Discrete Devices Product Portfolios and Specifications

Table 133. Diodes Incorporated Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 134. Diodes Incorporated Main Business

Table 135. Diodes Incorporated Latest Developments

Table 136. Littelfuse (IXYS) Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 137. Littelfuse (IXYS) Semiconductor Discrete Devices Product Portfolios and Specifications

Table 138. Littelfuse (IXYS) Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 139. Littelfuse (IXYS) Main Business

Table 140. Littelfuse (IXYS) Latest Developments

Table 141. Alpha & Omega Semiconductor Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

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

Table 143. Alpha & Omega Semiconductor Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) 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, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 147. SEMIKRON Danfoss Semiconductor Discrete Devices Product Portfolios and Specifications

Table 148. SEMIKRON Danfoss Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) 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, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

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

Table 153. Hitachi Power Semiconductor Device Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) 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, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 157. Microchip Semiconductor Discrete Devices Product Portfolios and

## Specifications

Table 158. Microchip Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 159. Microchip Main Business

Table 160. Microchip Latest Developments

Table 161. Sanken Electric Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 162. Sanken Electric Semiconductor Discrete Devices Product Portfolios and Specifications

Table 163. Sanken Electric Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 164. Sanken Electric Main Business

Table 165. Sanken Electric Latest Developments

Table 166. Semtech Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 167. Semtech Semiconductor Discrete Devices Product Portfolios and Specifications

Table 168. Semtech Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 169. Semtech Main Business

Table 170. Semtech Latest Developments

Table 171. MagnaChip Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 172. MagnaChip Semiconductor Discrete Devices Product Portfolios and Specifications

Table 173. MagnaChip Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 174. MagnaChip Main Business

Table 175. MagnaChip Latest Developments

Table 176. Bosch Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 177. Bosch Semiconductor Discrete Devices Product Portfolios and Specifications

Table 178. Bosch Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 179. Bosch Main Business

Table 180. Bosch Latest Developments

Table 181. Texas Instruments Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 182. Texas Instruments Semiconductor Discrete Devices Product Portfolios and Specifications

Table 183. Texas Instruments Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 184. Texas Instruments Main Business

Table 185. Texas Instruments Latest Developments

Table 186. KEC Corporation Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 187. KEC Corporation Semiconductor Discrete Devices Product Portfolios and Specifications

Table 188. KEC Corporation Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 189. KEC Corporation Main Business

Table 190. KEC Corporation Latest Developments

Table 191. Cree (Wolfspeed) Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 192. Cree (Wolfspeed) Semiconductor Discrete Devices Product Portfolios and Specifications

Table 193. Cree (Wolfspeed) Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 194. Cree (Wolfspeed) Main Business

Table 195. Cree (Wolfspeed) Latest Developments

Table 196. PANJIT Group Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 197. PANJIT Group Semiconductor Discrete Devices Product Portfolios and Specifications

Table 198. PANJIT Group Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 199. PANJIT Group Main Business

Table 200. PANJIT Group Latest Developments

Table 201. Unisonic Technologies (UTC) Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 202. Unisonic Technologies (UTC) Semiconductor Discrete Devices Product Portfolios and Specifications

Table 203. Unisonic Technologies (UTC) Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) 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, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 207. Niko Semiconductor Semiconductor Discrete Devices Product Portfolios and Specifications

Table 208. Niko Semiconductor Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 209. Niko Semiconductor Main Business

Table 210. Niko Semiconductor Latest Developments

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

Table 212. Hangzhou Silan Microelectronics Semiconductor Discrete Devices Product Portfolios and Specifications

Table 213. Hangzhou Silan Microelectronics Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) 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, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 217. Yangzhou Yangjie Electronic Technology Semiconductor Discrete Devices Product Portfolios and Specifications

Table 218. Yangzhou Yangjie Electronic Technology Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) 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, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 222. China Resources Microelectronics Limited Semiconductor Discrete Devices Product Portfolios and Specifications

Table 223. China Resources Microelectronics Limited Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) 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, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 227. Jilin Sino-Microelectronics Semiconductor Discrete Devices Product Portfolios and Specifications

Table 228. Jilin Sino-Microelectronics Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 229. Jilin Sino-Microelectronics Main Business

Table 230. Jilin Sino-Microelectronics Latest Developments

Table 231. StarPower Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 232. StarPower Semiconductor Discrete Devices Product Portfolios and Specifications

Table 233. StarPower Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 234. StarPower Main Business

Table 235. StarPower Latest Developments

Table 236. NCEPOWER Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 237. NCEPOWER Semiconductor Discrete Devices Product Portfolios and Specifications

Table 238. NCEPOWER Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) and Gross Margin (2019-2024)

Table 239. NCEPOWER Main Business

Table 240. NCEPOWER Latest Developments

Table 241. Hangzhou Li-On Microelectronics Corporation Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 242. Hangzhou Li-On Microelectronics Corporation Semiconductor Discrete Devices Product Portfolios and Specifications

Table 243. Hangzhou Li-On Microelectronics Corporation Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) 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, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 247. Jiangsu Jiejie Microelectronics Semiconductor Discrete Devices Product Portfolios and Specifications

Table 248. Jiangsu Jiejie Microelectronics Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) 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, Semiconductor Discrete

Devices Manufacturing Base, Sales Area and Its Competitors

Table 252. OmniVision Technologies Semiconductor Discrete Devices Product Portfolios and Specifications

Table 253. OmniVision Technologies Semiconductor Discrete Devices Sales (Million Pieces), Revenue (\$ Million), Price (US\$/K Pieces) 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, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 257. Zhuzhou CRRC Times Electric Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 258. WeEn Semiconductors Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 259. Changzhou Galaxy Century Microelectronics Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 260. MacMic Science & Technolog Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 261. BYD Semiconductor Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

Table 262. Hubei TECH Semiconductors Basic Information, Semiconductor Discrete Devices Manufacturing Base, Sales Area and Its Competitors

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Semiconductor Discrete Devices
- Figure 2. Semiconductor Discrete Devices Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Semiconductor Discrete Devices Sales Growth Rate 2019-2030 (Million Pieces)
- Figure 7. Global Semiconductor Discrete Devices Revenue Growth Rate 2019-2030 (\$ Millions)
- Figure 8. Semiconductor Discrete Devices 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 Semiconductor Discrete Devices Sales Market Share by Type in 2023
- Figure 15. Global Semiconductor Discrete Devices Revenue Market Share by Type (2019-2024)
- Figure 16. Semiconductor Discrete Devices Consumed in Industrial Control
- Figure 17. Global Semiconductor Discrete Devices Market: Industrial Control (2019-2024) & (Million Pieces)
- Figure 18. Semiconductor Discrete Devices Consumed in Automotive
- Figure 19. Global Semiconductor Discrete Devices Market: Automotive (2019-2024) & (Million Pieces)
- Figure 20. Semiconductor Discrete Devices Consumed in Consumer Electronics
- Figure 21. Global Semiconductor Discrete Devices Market: Consumer Electronics (2019-2024) & (Million Pieces)
- Figure 22. Semiconductor Discrete Devices Consumed in Communication
- Figure 23. Global Semiconductor Discrete Devices Market: Communication (2019-2024) & (Million Pieces)
- Figure 24. Semiconductor Discrete Devices Consumed in Grid and Energy
- Figure 25. Global Semiconductor Discrete Devices Market: Grid and Energy (2019-2024) & (Million Pieces)
- Figure 26. Semiconductor Discrete Devices Consumed in Others

Figure 27. Global Semiconductor Discrete Devices Market: Others (2019-2024) & (Million Pieces)

Figure 28. Global Semiconductor Discrete Devices Sales Market Share by Application (2023)

Figure 29. Global Semiconductor Discrete Devices Revenue Market Share by Application in 2023

Figure 30. Semiconductor Discrete Devices Sales Market by Company in 2023 (Million Pieces)

Figure 31. Global Semiconductor Discrete Devices Sales Market Share by Company in 2023

Figure 32. Semiconductor Discrete Devices Revenue Market by Company in 2023 (\$ Million)

Figure 33. Global Semiconductor Discrete Devices Revenue Market Share by Company in 2023

Figure 34. Global Semiconductor Discrete Devices Sales Market Share by Geographic Region (2019-2024)

Figure 35. Global Semiconductor Discrete Devices Revenue Market Share by Geographic Region in 2023

Figure 36. Americas Semiconductor Discrete Devices Sales 2019-2024 (Million Pieces)

Figure 37. Americas Semiconductor Discrete Devices Revenue 2019-2024 (\$ Millions)

Figure 38. APAC Semiconductor Discrete Devices Sales 2019-2024 (Million Pieces)

Figure 39. APAC Semiconductor Discrete Devices Revenue 2019-2024 (\$ Millions)

Figure 40. Europe Semiconductor Discrete Devices Sales 2019-2024 (Million Pieces)

Figure 41. Europe Semiconductor Discrete Devices Revenue 2019-2024 (\$ Millions)

Figure 42. Middle East & Africa Semiconductor Discrete Devices Sales 2019-2024 (Million Pieces)

Figure 43. Middle East & Africa Semiconductor Discrete Devices Revenue 2019-2024 (\$ Millions)

Figure 44. Americas Semiconductor Discrete Devices Sales Market Share by Country in 2023

Figure 45. Americas Semiconductor Discrete Devices Revenue Market Share by Country in 2023

Figure 46. Americas Semiconductor Discrete Devices Sales Market Share by Type (2019-2024)

Figure 47. Americas Semiconductor Discrete Devices Sales Market Share by Application (2019-2024)

Figure 48. United States Semiconductor Discrete Devices Revenue Growth 2019-2024 (\$ Millions)

Figure 49. Canada Semiconductor Discrete Devices Revenue Growth 2019-2024 (\$

Millions)

Figure 50. Mexico Semiconductor Discrete Devices Revenue Growth 2019-2024 (\$ Millions)

Figure 51. Brazil Semiconductor Discrete Devices Revenue Growth 2019-2024 (\$ Millions)

Figure 52. APAC Semiconductor Discrete Devices Sales Market Share by Region in 2023

Figure 53. APAC Semiconductor Discrete Devices Revenue M

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