

Global Automotive Silicon-Controlled Rectifier Market Research Report 2026(Status and Outlook)

<https://marketpublishers.com/r/G3649B0FDD9DEN.html>

Date: March 2026

Pages: 151

Price: US\$ 2,980.00 (Single User License)

ID: G3649B0FDD9DEN

Abstracts

Featuring immunity to surges and transients in static states and commutations, our silicon-controlled rectifiers (SCR), also known as thyristors, are ideal for single- and three-phase power line networks, even in harsh environments up to 150°C. In addition to AC, DC and capacitive ignitor circuits, these unidirectional switches are found in high-voltage industrial circuits as well as automotive equipment and all other segments where electromechanical relays are not operative or unreliable.

The global Automotive Silicon-Controlled Rectifier market size was estimated at USD 131.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.10% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Automotive Silicon-Controlled Rectifier market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Automotive Silicon-Controlled Rectifier market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a

nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Automotive Silicon-Controlled Rectifier market.

Global Automotive Silicon-Controlled Rectifier Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

STMicroelectronics
WeEn Semiconductors
Littelfuse
Renesas Electronics
JieJie Microelectronics
Vishay
Shindengen Electric
Semikron Danfoss
Diodes Incorporated
Sanken Electric
SanRex
Central Semiconductor

Market Segmentation (by Type)

Unidirectional Thyristor

Bidirectional Thyristor

Market Segmentation (by Application)

Passenger Car

Commercial Vehicle

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Automotive Silicon-Controlled Rectifier Market

Overview of the regional outlook of the Automotive Silicon-Controlled Rectifier Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product

type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Automotive Silicon-Controlled Rectifier Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Automotive Silicon-Controlled Rectifier, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Automotive Silicon-Controlled Rectifier

1.2 Key Market Segments

1.2.1 Automotive Silicon-Controlled Rectifier Segment by Type

1.2.2 Automotive Silicon-Controlled Rectifier Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 AUTOMOTIVE SILICON-CONTROLLED RECTIFIER MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Automotive Silicon-Controlled Rectifier Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Automotive Silicon-Controlled Rectifier Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 AUTOMOTIVE SILICON-CONTROLLED RECTIFIER MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Automotive Silicon-Controlled Rectifier Product Life Cycle

3.3 Global Automotive Silicon-Controlled Rectifier Sales by Manufacturers (2020-2025)

3.4 Global Automotive Silicon-Controlled Rectifier Revenue Market Share by Manufacturers (2020-2025)

3.5 Automotive Silicon-Controlled Rectifier Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Automotive Silicon-Controlled Rectifier Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Automotive Silicon-Controlled Rectifier Market Competitive Situation and Trends

- 3.8.1 Automotive Silicon-Controlled Rectifier Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest Automotive Silicon-Controlled Rectifier Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

4 AUTOMOTIVE SILICON-CONTROLLED RECTIFIER INDUSTRY CHAIN ANALYSIS

- 4.1 Automotive Silicon-Controlled Rectifier Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF AUTOMOTIVE SILICON-CONTROLLED RECTIFIER MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Automotive Silicon-Controlled Rectifier Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Automotive Silicon-Controlled Rectifier Market
- 5.7 ESG Ratings of Leading Companies

6 AUTOMOTIVE SILICON-CONTROLLED RECTIFIER MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Automotive Silicon-Controlled Rectifier Sales Market Share by Type (2020-2025)

6.3 Global Automotive Silicon-Controlled Rectifier Market Size by Type (2020-2025)

6.4 Global Automotive Silicon-Controlled Rectifier Price by Type (2020-2025)

7 AUTOMOTIVE SILICON-CONTROLLED RECTIFIER MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Automotive Silicon-Controlled Rectifier Market Sales by Application (2020-2025)

7.3 Global Automotive Silicon-Controlled Rectifier Market Size (M USD) by Application (2020-2025)

7.4 Global Automotive Silicon-Controlled Rectifier Sales Growth Rate by Application (2020-2025)

8 AUTOMOTIVE SILICON-CONTROLLED RECTIFIER MARKET SALES BY REGION

8.1 Global Automotive Silicon-Controlled Rectifier Sales by Region

8.1.1 Global Automotive Silicon-Controlled Rectifier Sales by Region

8.1.2 Global Automotive Silicon-Controlled Rectifier Sales Market Share by Region

8.2 Global Automotive Silicon-Controlled Rectifier Market Size by Region

8.2.1 Global Automotive Silicon-Controlled Rectifier Market Size by Region

8.2.2 Global Automotive Silicon-Controlled Rectifier Market Size by Region

8.3 North America

8.3.1 North America Automotive Silicon-Controlled Rectifier Sales by Country

8.3.2 North America Automotive Silicon-Controlled Rectifier Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Automotive Silicon-Controlled Rectifier Sales by Country

8.4.2 Europe Automotive Silicon-Controlled Rectifier Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

- 8.5.1 Asia Pacific Automotive Silicon-Controlled Rectifier Sales by Region
- 8.5.2 Asia Pacific Automotive Silicon-Controlled Rectifier Market Size by Region
- 8.5.3 China Market Overview
- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Automotive Silicon-Controlled Rectifier Sales by Country
 - 8.6.2 South America Automotive Silicon-Controlled Rectifier Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Automotive Silicon-Controlled Rectifier Sales by Region
 - 8.7.2 Middle East and Africa Automotive Silicon-Controlled Rectifier Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 AUTOMOTIVE SILICON-CONTROLLED RECTIFIER MARKET PRODUCTION BY REGION

- 9.1 Global Production of Automotive Silicon-Controlled Rectifier by Region(2020-2025)
- 9.2 Global Automotive Silicon-Controlled Rectifier Revenue Market Share by Region (2020-2025)
- 9.3 Global Automotive Silicon-Controlled Rectifier Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Automotive Silicon-Controlled Rectifier Production
 - 9.4.1 North America Automotive Silicon-Controlled Rectifier Production Growth Rate (2020-2025)
 - 9.4.2 North America Automotive Silicon-Controlled Rectifier Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Automotive Silicon-Controlled Rectifier Production
 - 9.5.1 Europe Automotive Silicon-Controlled Rectifier Production Growth Rate (2020-2025)

9.5.2 Europe Automotive Silicon-Controlled Rectifier Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Automotive Silicon-Controlled Rectifier Production (2020-2025)

9.6.1 Japan Automotive Silicon-Controlled Rectifier Production Growth Rate (2020-2025)

9.6.2 Japan Automotive Silicon-Controlled Rectifier Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Automotive Silicon-Controlled Rectifier Production (2020-2025)

9.7.1 China Automotive Silicon-Controlled Rectifier Production Growth Rate (2020-2025)

9.7.2 China Automotive Silicon-Controlled Rectifier Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 STMicroelectronics

10.1.1 STMicroelectronics Basic Information

10.1.2 STMicroelectronics Automotive Silicon-Controlled Rectifier Product Overview

10.1.3 STMicroelectronics Automotive Silicon-Controlled Rectifier Product Market Performance

10.1.4 STMicroelectronics Business Overview

10.1.5 STMicroelectronics SWOT Analysis

10.1.6 STMicroelectronics Recent Developments

10.2 WeEn Semiconductors

10.2.1 WeEn Semiconductors Basic Information

10.2.2 WeEn Semiconductors Automotive Silicon-Controlled Rectifier Product Overview

10.2.3 WeEn Semiconductors Automotive Silicon-Controlled Rectifier Product Market Performance

10.2.4 WeEn Semiconductors Business Overview

10.2.5 WeEn Semiconductors SWOT Analysis

10.2.6 WeEn Semiconductors Recent Developments

10.3 Littelfuse

10.3.1 Littelfuse Basic Information

10.3.2 Littelfuse Automotive Silicon-Controlled Rectifier Product Overview

10.3.3 Littelfuse Automotive Silicon-Controlled Rectifier Product Market Performance

10.3.4 Littelfuse Business Overview

10.3.5 Littelfuse SWOT Analysis

10.3.6 Littelfuse Recent Developments

10.4 Renesas Electronics

10.4.1 Renesas Electronics Basic Information

10.4.2 Renesas Electronics Automotive Silicon-Controlled Rectifier Product Overview

10.4.3 Renesas Electronics Automotive Silicon-Controlled Rectifier Product Market

Performance

10.4.4 Renesas Electronics Business Overview

10.4.5 Renesas Electronics Recent Developments

10.5 JieJie Microelectronics

10.5.1 JieJie Microelectronics Basic Information

10.5.2 JieJie Microelectronics Automotive Silicon-Controlled Rectifier Product

Overview

10.5.3 JieJie Microelectronics Automotive Silicon-Controlled Rectifier Product Market

Performance

10.5.4 JieJie Microelectronics Business Overview

10.5.5 JieJie Microelectronics Recent Developments

10.6 Vishay

10.6.1 Vishay Basic Information

10.6.2 Vishay Automotive Silicon-Controlled Rectifier Product Overview

10.6.3 Vishay Automotive Silicon-Controlled Rectifier Product Market Performance

10.6.4 Vishay Business Overview

10.6.5 Vishay Recent Developments

10.7 Shindengen Electric

10.7.1 Shindengen Electric Basic Information

10.7.2 Shindengen Electric Automotive Silicon-Controlled Rectifier Product Overview

10.7.3 Shindengen Electric Automotive Silicon-Controlled Rectifier Product Market

Performance

10.7.4 Shindengen Electric Business Overview

10.7.5 Shindengen Electric Recent Developments

10.8 Semikron Danfoss

10.8.1 Semikron Danfoss Basic Information

10.8.2 Semikron Danfoss Automotive Silicon-Controlled Rectifier Product Overview

10.8.3 Semikron Danfoss Automotive Silicon-Controlled Rectifier Product Market

Performance

10.8.4 Semikron Danfoss Business Overview

10.8.5 Semikron Danfoss Recent Developments

10.9 Diodes Incorporated

10.9.1 Diodes Incorporated Basic Information

10.9.2 Diodes Incorporated Automotive Silicon-Controlled Rectifier Product Overview

10.9.3 Diodes Incorporated Automotive Silicon-Controlled Rectifier Product Market

Performance

10.9.4 Diodes Incorporated Business Overview

10.9.5 Diodes Incorporated Recent Developments

10.10 Sanken Electric

10.10.1 Sanken Electric Basic Information

10.10.2 Sanken Electric Automotive Silicon-Controlled Rectifier Product Overview

10.10.3 Sanken Electric Automotive Silicon-Controlled Rectifier Product Market

Performance

10.10.4 Sanken Electric Business Overview

10.10.5 Sanken Electric Recent Developments

10.11 SanRex

10.11.1 SanRex Basic Information

10.11.2 SanRex Automotive Silicon-Controlled Rectifier Product Overview

10.11.3 SanRex Automotive Silicon-Controlled Rectifier Product Market Performance

10.11.4 SanRex Business Overview

10.11.5 SanRex Recent Developments

10.12 Central Semiconductor

10.12.1 Central Semiconductor Basic Information

10.12.2 Central Semiconductor Automotive Silicon-Controlled Rectifier Product

Overview

10.12.3 Central Semiconductor Automotive Silicon-Controlled Rectifier Product Market

Performance

10.12.4 Central Semiconductor Business Overview

10.12.5 Central Semiconductor Recent Developments

11 AUTOMOTIVE SILICON-CONTROLLED RECTIFIER MARKET FORECAST BY REGION

11.1 Global Automotive Silicon-Controlled Rectifier Market Size Forecast

11.2 Global Automotive Silicon-Controlled Rectifier Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Automotive Silicon-Controlled Rectifier Market Size Forecast by Country

11.2.3 Asia Pacific Automotive Silicon-Controlled Rectifier Market Size Forecast by Region

11.2.4 South America Automotive Silicon-Controlled Rectifier Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Automotive Silicon-Controlled Rectifier by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Automotive Silicon-Controlled Rectifier Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Automotive Silicon-Controlled Rectifier by Type (2026-2035)

12.1.2 Global Automotive Silicon-Controlled Rectifier Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Automotive Silicon-Controlled Rectifier by Type (2026-2035)

12.2 Global Automotive Silicon-Controlled Rectifier Market Forecast by Application (2026-2035)

12.2.1 Global Automotive Silicon-Controlled Rectifier Sales (K Units) Forecast by Application

12.2.2 Global Automotive Silicon-Controlled Rectifier Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Automotive Silicon-Controlled Rectifier Market Size by Type (M USD)

Table 4. Global Automotive Silicon-Controlled Rectifier Market Size by Application

Table 5. Automotive Silicon-Controlled Rectifier Market Size Comparison by Region (M USD)

Table 6. Global Automotive Silicon-Controlled Rectifier Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Automotive Silicon-Controlled Rectifier Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Automotive Silicon-Controlled Rectifier Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Automotive Silicon-Controlled Rectifier Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Automotive Silicon-Controlled Rectifier as of 2025)

Table 11. Global Market Automotive Silicon-Controlled Rectifier Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Automotive Silicon-Controlled Rectifier Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Automotive Silicon-Controlled Rectifier Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Automotive Silicon-Controlled Rectifier Sales by Type (K Units)

Table 27. Global Automotive Silicon-Controlled Rectifier Market Size by Type (M USD)

Table 28. Global Automotive Silicon-Controlled Rectifier Sales (K Units) by Type
(2020-2025)

Table 29. Global Automotive Silicon-Controlled Rectifier Sales Market Share by Type
(2020-2025)

Table 30. Global Automotive Silicon-Controlled Rectifier Market Size (M USD) by Type
(2020-2025)

Table 31. Global Automotive Silicon-Controlled Rectifier Market Share by Type
(2020-2025)

Table 32. Global Automotive Silicon-Controlled Rectifier Price (USD/Unit) by Type
(2020-2025)

Table 33. Global Automotive Silicon-Controlled Rectifier Sales (K Units) by Application

Table 34. Global Automotive Silicon-Controlled Rectifier Market Size by Application

Table 35. Global Automotive Silicon-Controlled Rectifier Sales by Application
(2020-2025) & (K Units)

Table 36. Global Automotive Silicon-Controlled Rectifier Sales Market Share by
Application (2020-2025)

Table 37. Global Automotive Silicon-Controlled Rectifier Market Size by Application
(2020-2025) & (M USD)

Table 38. Global Automotive Silicon-Controlled Rectifier Market Share by Application
(2020-2025)

Table 39. Global Automotive Silicon-Controlled Rectifier Sales Growth Rate by
Application (2020-2025)

Table 40. Global Automotive Silicon-Controlled Rectifier Sales by Region (2020-2025) &
(K Units)

Table 41. Global Automotive Silicon-Controlled Rectifier Sales Market Share by Region
(2020-2025)

Table 42. Global Automotive Silicon-Controlled Rectifier Market Size by Region
(2020-2025) & (M USD)

Table 43. Global Automotive Silicon-Controlled Rectifier Market Size by Region
(2020-2025)

Table 44. North America Automotive Silicon-Controlled Rectifier Sales by Country
(2020-2025) & (K Units)

Table 45. North America Automotive Silicon-Controlled Rectifier Market Size by Country
(2020-2025) & (M USD)

Table 46. Europe Automotive Silicon-Controlled Rectifier Sales by Country (2020-2025)
& (K Units)

Table 47. Europe Automotive Silicon-Controlled Rectifier Market Size by Country
(2020-2025) & (M USD)

Table 48. Asia Pacific Automotive Silicon-Controlled Rectifier Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Automotive Silicon-Controlled Rectifier Market Size by Region (2020-2025) & (M USD)

Table 50. South America Automotive Silicon-Controlled Rectifier Sales by Country (2020-2025) & (K Units)

Table 51. South America Automotive Silicon-Controlled Rectifier Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Automotive Silicon-Controlled Rectifier Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Automotive Silicon-Controlled Rectifier Market Size by Region (2020-2025) & (M USD)

Table 54. Global Automotive Silicon-Controlled Rectifier Production (K Units) by Region(2020-2025)

Table 55. Global Automotive Silicon-Controlled Rectifier Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Automotive Silicon-Controlled Rectifier Revenue Market Share by Region (2020-2025)

Table 57. Global Automotive Silicon-Controlled Rectifier Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Automotive Silicon-Controlled Rectifier Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Automotive Silicon-Controlled Rectifier Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Automotive Silicon-Controlled Rectifier Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Automotive Silicon-Controlled Rectifier Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. STMicroelectronics Basic Information

Table 63. STMicroelectronics Automotive Silicon-Controlled Rectifier Product Overview

Table 64. STMicroelectronics Automotive Silicon-Controlled Rectifier Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. STMicroelectronics Business Overview

Table 66. STMicroelectronics SWOT Analysis

Table 67. STMicroelectronics Recent Developments

Table 68. WeEn Semiconductors Basic Information

Table 69. WeEn Semiconductors Automotive Silicon-Controlled Rectifier Product Overview

Table 70. WeEn Semiconductors Automotive Silicon-Controlled Rectifier Sales (K

Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. WeEn Semiconductors Business Overview

Table 72. WeEn Semiconductors SWOT Analysis

Table 73. WeEn Semiconductors Recent Developments

Table 74. Littelfuse Basic Information

Table 75. Littelfuse Automotive Silicon-Controlled Rectifier Product Overview

Table 76. Littelfuse Automotive Silicon-Controlled Rectifier Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Littelfuse Business Overview

Table 78. Littelfuse SWOT Analysis

Table 79. Littelfuse Recent Developments

Table 80. Renesas Electronics Basic Information

Table 81. Renesas Electronics Automotive Silicon-Controlled Rectifier Product Overview

Table 82. Renesas Electronics Automotive Silicon-Controlled Rectifier Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Renesas Electronics Business Overview

Table 84. Renesas Electronics Recent Developments

Table 85. JieJie Microelectronics Basic Information

Table 86. JieJie Microelectronics Automotive Silicon-Controlled Rectifier Product Overview

Table 87. JieJie Microelectronics Automotive Silicon-Controlled Rectifier Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. JieJie Microelectronics Business Overview

Table 89. JieJie Microelectronics Recent Developments

Table 90. Vishay Basic Information

Table 91. Vishay Automotive Silicon-Controlled Rectifier Product Overview

Table 92. Vishay Automotive Silicon-Controlled Rectifier Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. Vishay Business Overview

Table 94. Vishay Recent Developments

Table 95. Shindengen Electric Basic Information

Table 96. Shindengen Electric Automotive Silicon-Controlled Rectifier Product Overview

Table 97. Shindengen Electric Automotive Silicon-Controlled Rectifier Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Shindengen Electric Business Overview

Table 99. Shindengen Electric Recent Developments

Table 100. Semikron Danfoss Basic Information

Table 101. Semikron Danfoss Automotive Silicon-Controlled Rectifier Product Overview

Table 102. Semikron Danfoss Automotive Silicon-Controlled Rectifier Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Semikron Danfoss Business Overview

Table 104. Semikron Danfoss Recent Developments

Table 105. Diodes Incorporated Basic Information

Table 106. Diodes Incorporated Automotive Silicon-Controlled Rectifier Product Overview

Table 107. Diodes Incorporated Automotive Silicon-Controlled Rectifier Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Diodes Incorporated Business Overview

Table 109. Diodes Incorporated Recent Developments

Table 110. Sanken Electric Basic Information

Table 111. Sanken Electric Automotive Silicon-Controlled Rectifier Product Overview

Table 112. Sanken Electric Automotive Silicon-Controlled Rectifier Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Sanken Electric Business Overview

Table 114. Sanken Electric Recent Developments

Table 115. SanRex Basic Information

Table 116. SanRex Automotive Silicon-Controlled Rectifier Product Overview

Table 117. SanRex Automotive Silicon-Controlled Rectifier Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. SanRex Business Overview

Table 119. SanRex Recent Developments

Table 120. Central Semiconductor Basic Information

Table 121. Central Semiconductor Automotive Silicon-Controlled Rectifier Product Overview

Table 122. Central Semiconductor Automotive Silicon-Controlled Rectifier Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 123. Central Semiconductor Business Overview

Table 124. Central Semiconductor Recent Developments

Table 125. Global Automotive Silicon-Controlled Rectifier Sales Forecast by Region (2026-2035) & (K Units)

Table 126. Global Automotive Silicon-Controlled Rectifier Market Size Forecast by Region (2026-2035) & (M USD)

Table 127. North America Automotive Silicon-Controlled Rectifier Sales Forecast by Country (2026-2035) & (K Units)

Table 128. North America Automotive Silicon-Controlled Rectifier Market Size Forecast by Country (2026-2035) & (M USD)

Table 129. Europe Automotive Silicon-Controlled Rectifier Sales Forecast by Country

(2026-2035) & (K Units)

Table 130. Europe Automotive Silicon-Controlled Rectifier Market Size Forecast by Country (2026-2035) & (M USD)

Table 131. Asia Pacific Automotive Silicon-Controlled Rectifier Sales Forecast by Region (2026-2035) & (K Units)

Table 132. Asia Pacific Automotive Silicon-Controlled Rectifier Market Size Forecast by Region (2026-2035) & (M USD)

Table 133. South America Automotive Silicon-Controlled Rectifier Sales Forecast by Country (2026-2035) & (K Units)

Table 134. South America Automotive Silicon-Controlled Rectifier Market Size Forecast by Country (2026-2035) & (M USD)

Table 135. Middle East and Africa Automotive Silicon-Controlled Rectifier Sales Forecast by Country (2026-2035) & (Units)

Table 136. Middle East and Africa Automotive Silicon-Controlled Rectifier Market Size Forecast by Country (2026-2035) & (M USD)

Table 137. Global Automotive Silicon-Controlled Rectifier Sales Forecast by Type (2026-2035) & (K Units)

Table 138. Global Automotive Silicon-Controlled Rectifier Market Size Forecast by Type (2026-2035) & (M USD)

Table 139. Global Automotive Silicon-Controlled Rectifier Price Forecast by Type (2026-2035) & (USD/Unit)

Table 140. Global Automotive Silicon-Controlled Rectifier Sales (K Units) Forecast by Application (2026-2035)

Table 141. Global Automotive Silicon-Controlled Rectifier Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Automotive Silicon-Controlled Rectifier
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Automotive Silicon-Controlled Rectifier Market Size (M USD), 2025-2035
- Figure 5. Global Automotive Silicon-Controlled Rectifier Market Size (M USD) (2020-2035)
- Figure 6. Global Automotive Silicon-Controlled Rectifier Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Automotive Silicon-Controlled Rectifier Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Automotive Silicon-Controlled Rectifier Product Life Cycle
- Figure 13. Automotive Silicon-Controlled Rectifier Sales Share by Manufacturers in 2025
- Figure 14. Global Automotive Silicon-Controlled Rectifier Revenue Share by Manufacturers in 2025
- Figure 15. Automotive Silicon-Controlled Rectifier Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Automotive Silicon-Controlled Rectifier Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Automotive Silicon-Controlled Rectifier Revenue in 2025
- Figure 18. Industry Chain Map of Automotive Silicon-Controlled Rectifier
- Figure 19. Global Automotive Silicon-Controlled Rectifier Market PEST Analysis
- Figure 20. Global Automotive Silicon-Controlled Rectifier Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Automotive Silicon-Controlled Rectifier Market Share by Type
- Figure 27. Sales Market Share of Automotive Silicon-Controlled Rectifier by Type

(2020-2025)

Figure 28. Sales Market Share of Automotive Silicon-Controlled Rectifier by Type in 2025

Figure 29. Market Share of Automotive Silicon-Controlled Rectifier by Type (2020-2025)

Figure 30. Market Share of Automotive Silicon-Controlled Rectifier by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Automotive Silicon-Controlled Rectifier Market Share by Application

Figure 33. Global Automotive Silicon-Controlled Rectifier Sales Market Share by Application (2020-2025)

Figure 34. Global Automotive Silicon-Controlled Rectifier Sales Market Share by Application in 2025

Figure 35. Global Automotive Silicon-Controlled Rectifier Market Share by Application (2020-2025)

Figure 36. Global Automotive Silicon-Controlled Rectifier Market Share by Application in 2025

Figure 37. Global Automotive Silicon-Controlled Rectifier Sales Growth Rate by Application (2020-2025)

Figure 38. Global Automotive Silicon-Controlled Rectifier Sales Market Share by Region (2020-2025)

Figure 39. Global Automotive Silicon-Controlled Rectifier Market Size by Region (2020-2025)

Figure 40. North America Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Automotive Silicon-Controlled Rectifier Sales Market Share by Country in 2024

Figure 43. North America Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Automotive Silicon-Controlled Rectifier Market Size by Country in 2024

Figure 45. U.S. Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Automotive Silicon-Controlled Rectifier Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Automotive Silicon-Controlled Rectifier Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Automotive Silicon-Controlled Rectifier Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Automotive Silicon-Controlled Rectifier Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Automotive Silicon-Controlled Rectifier Sales Market Share by Country in 2024

Figure 53. Europe Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Automotive Silicon-Controlled Rectifier Market Size by Country in 2024

Figure 55. Germany Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Automotive Silicon-Controlled Rectifier Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Automotive Silicon-Controlled Rectifier Sales Market Share by Region in 2024

Figure 67. Asia Pacific Automotive Silicon-Controlled Rectifier Market Size by Region in 2024

Figure 68. China Automotive Silicon-Controlled Rectifier Sales and Growth Rate

(2020-2025) & (K Units)

Figure 69. China Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Automotive Silicon-Controlled Rectifier Sales and Growth Rate (K Units)

Figure 79. South America Automotive Silicon-Controlled Rectifier Sales Market Share by Country in 2024

Figure 80. South America Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (M USD)

Figure 81. South America Automotive Silicon-Controlled Rectifier Market Size by Country in 2024

Figure 82. Brazil Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Automotive Silicon-Controlled Rectifier Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Automotive Silicon-Controlled Rectifier Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Automotive Silicon-Controlled Rectifier Market Size by Region in 2024

Figure 92. Saudi Arabia Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Automotive Silicon-Controlled Rectifier Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Automotive Silicon-Controlled Rectifier Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Automotive Silicon-Controlled Rectifier Production Market Share by Region (2020-2025)

Figure 103. North America Automotive Silicon-Controlled Rectifier Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Automotive Silicon-Controlled Rectifier Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Automotive Silicon-Controlled Rectifier Production (K Units) Growth Rate (2020-2025)

Figure 106. China Automotive Silicon-Controlled Rectifier Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Automotive Silicon-Controlled Rectifier Sales Forecast by Volume

(2020-2035) & (K Units)

Figure 108. Global Automotive Silicon-Controlled Rectifier Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Automotive Silicon-Controlled Rectifier Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Automotive Silicon-Controlled Rectifier Market Share Forecast by Type (2026-2035)

Figure 111. Global Automotive Silicon-Controlled Rectifier Sales Forecast by Application (2026-2035)

Figure 112. Global Automotive Silicon-Controlled Rectifier Market Share Forecast by Application (2026-2035)

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