+357 96 030922
info@marketpublishers.com

Global Thyristors Devices Market Research Report 2026(Status and Outlook)

https://marketpublishers.com/r/G77A1D090723EN.html
Date: March 2026
Pages: 154
Price: US$ 3,200.00 (Single User License)
ID: G77A1D090723EN

Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Thyristors Devices competitive dynamics, regional economic interdependencies, and supply chain reconfigurations.In 2024, global Thyristors Devices production reached 8.58 billion units , with an average global market price of around US$ 83.38 per k unit. Thyristors devices are semiconductor devices used for controlling and switching electric power. They belong to the family of semiconductor devices known as "power semiconductors" which are capable of handling high voltages and currents. Thyristor can be classified into SCR and TRIAC according to the direction of current control. SCRs are unidirectional devices and conduct load current in only one direction. SCRs are triggered by a positive trigger current into the gate. Low power applications include circuit breakers like GFCI and engine ignition circuits. High power applications include motor control, inrush current protection, battery chargers, SMPS and UPS. TRIACs are current-controlled, bidirectional power latches, designed to control AC-mains loads. TRIACs are mainly used in home appliances, electrical (water) heaters, lamp dimmers and motor control applications.The thyristor device industry is currently in a steady but somewhat mature development stage. In terms of product structure, thyristors can be categorized into two main types: unidirectional SCRs and bidirectional TRIACs. They can also be subdivided by power and voltage levels, ranging from tens of amperes to several thousand amperes and from hundreds of volts to several thousand volts. Based on drive methods, they are divided into gate-triggered and non-triggered types, while packaging forms include discrete, surface-mount, and power packages. From an application perspective, thyristor devices are widely used in industrial control, power systems, renewable energy inverters, and traction systems, where high current, high voltage endurance, and reliability are required. Regionally, the Asia-Pacific market represents the largest share,

+357 96 030922
info@marketpublishers.com

followed by Europe and North America. In terms of competition, a few major global semiconductor manufacturers dominate supply, while numerous regional players are active in standard-power or niche application segments.On the manufacturing side, the cost structure of power thyristor devices typically consists of: chip materials and processing (about 45%?55%), drive/control interface circuits (18%?22%), packaging structures and mechanical parts (7%?10%), thermal management and heat dissipation components (6%?8%), and manufacturing expenses including labor, assembly, testing, and certification (15%?20%). A typical highly automated production line has an annual capacity of approximately 50 million to 100 million units. Industry-wide gross margins generally range from 32% to 55%.In the industry chain, the upstream segment mainly involves thyristor chip manufacturing and material supply; the midstream includes device packaging, testing, and assembly; and the downstream covers industrial equipment manufacturing, renewable energy system integration, and power transportation systems. The sector is characterized by a ?concentrated upstream in technology and materials, fragmented midstream manufacturing, and diversified downstream applications? structure. Competition centers on device voltage and current capability, triggering and turn-off performance, thermal management design, cost efficiency, and reliability.Looking ahead, discrete thyristor devices will continue evolving toward higher current, higher voltage endurance, faster switching speed, and wider temperature tolerance. Although module-based devices are growing rapidly, traditional thyristor devices still have broad prospects due to mature processes, cost advantages, and proven reliability. With the gradual maturity of wide-bandgap materials such as SiC and GaN, improvements in device packaging and thermal management, and further automation of production lines, the overall cost structure of the industry is expected to improve, and gross margins are likely to shift upward toward the high end.

The global Thyristors Devices market size was estimated at USD 715.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 4.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Thyristors Devices 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

+357 96 030922
info@marketpublishers.com

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 Thyristors Devices 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 Thyristors Devices market.

Global Thyristors Devices 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
Vishay
Shindengen Electric
JieJie Microelectronics
SanRex
Infineon
Semikron Danfoss
Diodes Incorporated

+357 96 030922
info@marketpublishers.com

Sanken Electric
KYOCERA
Yangzhou Yangjie Electronic Technology
Macmic Science and Technology
Central Semiconductor

Market Segmentation (by Type)

SCR
TRIAC

Market Segmentation (by Application)

Automotive & Transportation
Industrial Control
Consumer Electronics
Computing & Communications
Others

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

+357 96 030922
info@marketpublishers.com

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 Thyristors Devices Market
Overview of the regional outlook of the Thyristors Devices 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 Thyristors Devices 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

+357 96 030922
info@marketpublishers.com

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 Thyristors Devices, 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

+357 96 030922
info@marketpublishers.com

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.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

9 THYRISTORS DEVICES MARKET PRODUCTION BY REGION

10 KEY COMPANIES PROFILE

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

13 CONCLUSION AND KEY FINDINGS

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Thyristors Devices Market Research Report 2026(Status and Outlook)

Product link: https://marketpublishers.com/r/G77A1D090723EN.html

Price: US$ 3,200.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G77A1D090723EN.html