

Global Thyristors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thyristors market size is expected to reach \$ 1086 million by 2032, rising at a market growth of 3.5% CAGR during the forecast period (2026-2032).

A thyristor is a type of power semiconductor device featuring a four-layer, three-terminal (anode, cathode, gate) PNPN structure. It is triggered by a gate signal to switch from a blocking (off) state to a conducting (on) state and remains conducting until the anode-to-cathode current drops below its holding value or a reverse voltage is applied. Beyond standard devices such as conventional thyristors (SCRs) and bidirectional thyristors (TRIACs), this study also covers advanced modules like GTO (Gate Turn-Off Thyristor) and IGCT (Integrated Gate-Commutated Thyristor) which offer higher switching capabilities and are designed for high-voltage, high-current industrial applications.

The global thyristor market—including both discrete devices (conventional SCRs, bidirectional thyristors) and modules such as GTO and IGCT—is experiencing steady development, reflecting a shift toward high-voltage, high-current power switching in modern electronics and industrial systems. In terms of product structure, thyristors can be classified by device type (SCR, bidirectional thyristor, GTO/IGCT modules), power rating (from tens of amperes to thousands, blocking voltages from hundreds to thousands of volts), and application domain (industrial control, power transmission, renewable energy systems, transportation traction, computing & communications).

From a regional standpoint, the Asia-Pacific region leads the global market with approximately 61% market share, followed by Europe (~15%) and North America (~17%). In terms of competitive structure, major global manufacturers—such as STMicroelectronics, WeEn Semiconductors, Renesas Electronics, Littelfuse and others—dominate with the top four firms controlling about 54% of the market. On the

application side, industrial control accounts for the largest share at around 34%, followed by consumer electronics (28%) and computing & communications (22%).

Regarding cost structure, key cost components include the power switching device itself (roughly 45%–55%), packaging and structural components, driver and control circuitry, testing and certification, and manufacturing overhead. In terms of the value chain, the upstream segment comprises power device chip providers and module makers; midstream involves packaging, module integration and final assembly; downstream covers industrial automation equipment manufacturers, power supply system integrators, and electronics OEMs, illustrating a structure of “upstream concentrated, mid-stream standardized manufacturing, downstream broadly diversified.” Competitive advantages reside in device performance, thermal management and manufacturing automation.

Looking ahead, thyristor technology is advancing toward higher current capacity, higher blocking voltage, faster switching response, wider temperature tolerance, and modular/Intelligent designs. With the maturity of wide-bandgap materials (such as SiC, GaN) and improvements in automated manufacturing and testing, the next-generation thyristor modules are well poised to capture growing demand across electrification, automation and power-conversion sectors.

This report studies the global Thyristors demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thyristors, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Thyristors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thyristors total market, 2021-2032, (USD Million)

Global Thyristors total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Thyristors total market, key domestic companies, and share, (USD Million)

Global Thyristors revenue by player, revenue and market share 2021-2026, (USD

Million)

Global Thyristors total market by Type, CAGR, 2021-2032, (USD Million)

Global Thyristors total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Thyristors market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include STMicroelectronics, WeEn Semiconductors, Littelfuse, Renesas Electronics, Vishay, Shindengen Electric, JieJie Microelectronics, SanRex, Infineon, Semikron Danfoss, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Thyristors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Thyristors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thyristors Market, Segmentation by Type:

SCR

Triac

Thyristor Module

Global Thyristors Market, Segmentation by Package Type:

Metal Thyristors

Plastic Thyristors

Ceramic Thyristors

Global Thyristors Market, Segmentation by Power:

High-power Thyristors

Medium-power Thyristors

Low-power Thyristors

Global Thyristors Market, Segmentation by Application:

Automotive & Transportation

Industrial Control

Consumer Products

Computing & Communications

Others

Companies Profiled:

STMicroelectronics

WeEn Semiconductors

Littelfuse

Renesas Electronics

Vishay

Shindengen Electric

JieJie Microelectronics

SanRex

Infineon

Semikron Danfoss

Diodes Incorporated

Sanken Electric

KYOCERA

Yangzhou Yangjie Electronic Technology

Macmic Science and Technology

Central Semiconductor

Hitachi Energy Ltd.

Zhuzhou CRRC Times Semiconductor

Dynex Semiconductor Ltd.

Xi'an Peri Power Semiconductor Converting Technology Co.,Ltd.

Key Questions Answered

1. How big is the global Thyristors market?
2. What is the demand of the global Thyristors market?
3. What is the year over year growth of the global Thyristors market?
4. What is the total value of the global Thyristors market?
5. Who are the Major Players in the global Thyristors market?
6. What are the growth factors driving the market demand?

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