

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

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## Abstracts

The global Asymmetrical Thyristors market size is expected to reach \$ 2008 million by 2032, rising at a market growth of 3.7% CAGR during the forecast period (2026-2032).

An asymmetrical thyristor is a type of silicon-controlled rectifier (SCR) designed with unequal forward and reverse blocking capabilities. Compared to symmetrical thyristors, it offers reduced or minimal reverse voltage blocking capability, allowing optimization of forward conduction performance and switching characteristics, resulting in lower on-state voltage drop and improved efficiency. These devices are typically used in circuits where current direction is fixed or where reverse current paths are externally managed, such as motor drives, power converters, and industrial rectification systems.

The global production of asymmetric thyristors is projected to reach 72 million units in 2025, with an average price of \$21 per unit.

Asymmetrical thyristors are positioned within a power semiconductor supply chain where upstream players include silicon wafer suppliers, epitaxial wafer manufacturers, semiconductor equipment providers, and packaging material vendors. Core upstream costs are concentrated in high-purity silicon wafers, epitaxial processing, diffusion technology, and power-device-specific packaging materials. Compared with symmetrical thyristors, asymmetrical designs simplify reverse blocking capability and focus on optimizing forward voltage rating and conduction performance, resulting in relatively lower structural complexity and cost advantages for specific applications. Downstream demand is primarily concentrated in industrial power supplies, rectifiers, inverters, welding equipment, voltage regulation systems, and certain railway traction systems. Industrial automation and power electronics equipment represent the most important end-use sectors. Expansion of renewable energy installations and grid

infrastructure upgrades, particularly in emerging markets, continue to support stable demand growth.

In terms of development trends, the industry is moving toward higher voltage ratings, stronger surge current capability, and modular packaging integration. Asymmetrical thyristors coexist with IGBTs and emerging wide-bandgap devices by serving high-current, cost-sensitive applications where robustness and price-performance ratio remain competitive advantages. Key growth drivers include renewable power plant construction, grid modernization, industrial equipment upgrades, and expanding electricity demand in developing economies. Major constraints include substitution pressure from IGBT and SiC devices, product commoditization, intensified price competition, and strong bargaining power from large downstream equipment manufacturers.

The overall industry gross margin typically ranges between 25% and 40%. Standard commodity products generally achieve margins of 25%-30%, while high-voltage, high-current, or module-based products can reach 35%-40%. Leading manufacturers with optimized product mix and high capacity utilization can sustain margins around 35%, though margins may decline below 30% during periods of intense price competition. Overall, the sector represents a mature segment of the power semiconductor market with stable but moderate growth and mid-level profitability.

This report studies the global Asymmetrical Thyristors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Asymmetrical 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 Asymmetrical Thyristors that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Asymmetrical Thyristors total production and demand, 2021-2032, (K Units)

Global Asymmetrical Thyristors total production value, 2021-2032, (USD Million)

Global Asymmetrical Thyristors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Asymmetrical Thyristors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Asymmetrical Thyristors domestic production, consumption, key

domestic manufacturers and share

Global Asymmetrical Thyristors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Asymmetrical Thyristors production by Voltage, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Asymmetrical Thyristors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Asymmetrical Thyristors market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon, Mitsubishi Electric, Hitachi Energy, CRRRC Times Semiconductor, Littelfuse, Vishay, Semikron Danfoss, Dynex Semiconductor, Fuji Electric, 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 Asymmetrical Thyristors market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Voltage, 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 Asymmetrical Thyristors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Asymmetrical Thyristors Market, Segmentation by Voltage:

Less than 1200 V

1200-4500 V

More than 4500 V

#### Global Asymmetrical Thyristors Market, Segmentation by Current:

Less than 100 A

100-1000 A

More than 1000 A

#### Global Asymmetrical Thyristors Market, Segmentation by Packaging Structure:

Module Type

Stud Type

Press-Pack Type

#### Global Asymmetrical Thyristors Market, Segmentation by Application:

Industrial Rectification Equipment

Motor Drive And Soft Starter Systems

High-Power DC Transmission Equipment

Metallurgical And Electrolysis Equipment

#### Companies Profiled:

Infineon

Mitsubishi Electric

Hitachi Energy

CRRC Times Semiconductor

Littelfuse

Vishay

Semikron Danfoss

Dynex Semiconductor

Fuji Electric

#### Key Questions Answered:

1. How big is the global Asymmetrical Thyristors market?
2. What is the demand of the global Asymmetrical Thyristors market?
3. What is the year over year growth of the global Asymmetrical Thyristors market?
4. What is the production and production value of the global Asymmetrical Thyristors market?
5. Who are the key producers in the global Asymmetrical Thyristors market?
6. What are the growth factors driving the market demand?

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