

Global SIDAC Thyristor Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GB575CB38A79EN.html>

Date: April 2026

Pages: 109

Price: US\$ 4,480.00 (Single User License)

ID: GB575CB38A79EN

Abstracts

The global SIDAC Thyristor market size is expected to reach \$ 38.72 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

A SIDAC thyristor is a bidirectional breakover-type power semiconductor device that operates without a gate control terminal. It conducts rapidly once the applied voltage reaches a specified breakover threshold and turns off automatically when the current falls below the holding current. With symmetrical voltage characteristics, SIDAC devices are commonly used in AC circuits for surge triggering, ignition control, and overvoltage protection, offering stable breakover voltage, fast response, and high surge current capability.

SIDAC's thyristor production is projected to reach 247 million units in 2025, with an average price of \$0.09 per unit.

From an industry chain perspective, upstream mainly includes silicon wafer suppliers, epitaxial wafer manufacturing, power semiconductor chip fabrication, packaging materials, and assembly and testing services. As SIDAC thyristors are bidirectional trigger power devices typically produced using mature silicon power processes, they have low dependence on advanced nodes but require strong control over wafer quality, consistency, and packaging reliability. The technology is relatively standardized, and the upstream segment shows moderate concentration.

Downstream applications are primarily concentrated in overvoltage protection, surge suppression in power supplies, ignition circuits, home appliance control systems, electricity meters, and communication interface protection. The home appliance and low-power power supply markets represent the largest share, where SIDAC devices are

widely used in air conditioners, washing machines, small appliances, and power adapters to absorb transient voltage spikes and limit surge currents. Industrial control and metering equipment require high long-term stability and reliability. Communication interface protection emphasizes fast response and voltage endurance. Overall, downstream demand is dominated by medium- and low-power applications with high price sensitivity and strong scale dependence.

Industry trends focus on device miniaturization, improved surge endurance capability, and enhanced consistency and reliability. The increasing intelligence of home appliances and higher integration of power modules are driving demand for compact and reliable protection components. Key growth drivers include global appliance and consumer electronics shipments, broader adoption of power electronics, and stricter electromagnetic compatibility standards. Major constraints include relatively low technological barriers, intense competition from substitute devices such as TVS diodes and MOV varistors, and significant price pressure in end markets.

In terms of profitability, SIDAC thyristors belong to the mature discrete power device category, with industry gross margins typically ranging from 25% to 40%. Large-scale manufacturers tend to maintain relatively stable margins, while low-end market segments may see margins decline to around 20%. The overall weighted average gross margin is approximately 30% to 35%, with profitability influenced by raw material cost fluctuations and end-market demand cycles.

This report studies the global SIDAC Thyristor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global SIDAC Thyristor total production and demand, 2021-2032, (K Units)

Global SIDAC Thyristor total production value, 2021-2032, (USD Million)

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

Global SIDAC Thyristor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: SIDAC Thyristor domestic production, consumption, key domestic manufacturers and share

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

Global SIDAC Thyristor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global SIDAC Thyristor 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 STMicroelectronics, onsemi, Littelfuse, Bourns, Shindengen, JieJie Microelectronics, Diotec, Micro Commercial Components, 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 SIDAC Thyristor 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 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 SIDAC Thyristor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SIDAC Thyristor Market, Segmentation by Type:

30?120 V

120?240 V

240?400 V

Global SIDAC Thyristor Market, Segmentation by Peak Surge Current Capability:

10?50 A

50?150 A

More than 150 A

Global SIDAC Thyristor Market, Segmentation by Packaging Method:

DO-15

DO-201

SMD Package

Global SIDAC Thyristor Market, Segmentation by Application:

Lighting Dimmers And Ballast Circuits

Gas Ignition Systems

Motor Start And Control Circuits

Home Appliance Control Boards

Industrial AC Control Systems

Companies Profiled:

STMicroelectronics

onsemi

Littelfuse

Bourns

Shindengen

JieJie Microelectronics

Diotec

Micro Commercial Components

Key Questions Answered:

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

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