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Global Discrete Semiconductor Device for Solid State Relays Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Discrete Semiconductor Device for Solid State Relays market size was valued at US$ 263 million in 2025 and is forecast to a readjusted size of US$ 380 million by 2032 with a CAGR of 5.5% during review period.

In 2024, the global production of power semiconductor devices for solid-state relays reached 936 million units, with an average ex-factory price of USD 0.26 per unit. A Discrete Semiconductor Device for Solid State Relays (SSRs) refers to the individual semiconductor components that are used to construct solid state relays. These devices are essential in the functioning of SSRs, which are electronic switching devices used to control electrical loads without the mechanical contacts found in traditional electromechanical relays.

The industry of power semiconductor devices used in solid-state relays (SSRs) is in a critical phase of transformation, migrating from traditional electromechanical switching to high-performance electronic switching equipment. In SSRs, power devices serve as the core switching element—where structural type, drive mode, material and packaging performance directly dictate the SSR's output ratings, thermal losses, switching speed and reliability. With the acceleration of industrial automation, renewable energy, electric transportation and smart grid applications, demand for SSRs with high current carrying capability, elevated voltage tolerance, rapid switching response and wide operating temperature range is rapidly rising.

From a product-structure perspective, power devices serving SSRs may be categorised by drive mode (voltage-driven devices such as MOSFETs and IGBTs vs current-driven

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devices such as SCR/thyristors); by power-rating tiers (low-power, medium-power, high-power, ultra-high-power); by packaging format (discrete single-chip, power module, heatsink-integrated packaging); and by material technology (traditional silicon (Si) devices vs wide-bandgap devices such as SiC or GaN). Each of these classification dimensions drives SSR modules toward higher performance, smaller form-factor and reduced losses.

In terms of cost structure, power devices occupy a very high share of the SSR total manufacturing cost and thus are a key determinant of profitability for module and relay makers. A representative cost breakdown is: power switching devices themselves ~45 %-55 %; other electronic components (drivers, isolation circuitry) ~18 %-22 %; structural components (plastic parts, enclosures, mounting elements) ~7 %-10 %; heat-sink and packaging infrastructure ~6 %-8 %; manufacturing overhead (labour, assembly, testing & certification) ~15 %-20 %. A highly automated production line can achieve annual output in the order of millions to tens of millions of units. At the industry level, gross margins typically range between 40 %-60 %, with leading products often above 60 %.

In the supply-chain panorama, upstream comprises wafer foundries, semiconductor material suppliers and power device design houses; mid-stream includes power-device packaging & testing houses, module integrators and SSR manufacturers; downstream covers SSR module/system suppliers, industrial automation equipment makers and renewable-energy system integrators. The industry exhibits a “research & materials concentrated at the upstream, manufacturing dispersed in the mid-stream, broad application in the downstream” characteristic. In the competitive landscape, firms that master power-device design, packaging, thermal management and drive-circuit integration gain decisive edge over those competing only on commodity power segments.

Looking forward, the evolution path for power devices in SSR applications is clear: devices will support higher current, higher voltage ratings (e.g. >100 A, >1000 V), faster switching frequencies, wider temperature ranges and more compact and efficient packaging, while also integrating digital drive and status-monitoring functions for smart operation. Wide-bandgap materials such as SiC and GaN are becoming the preferred choice in high-end SSR applications, and modular, platform-based design trends are gaining traction. In manufacturing, companies will compete by increasing single-line throughput, lowering device cost, optimizing thermal management and drive solutions into the next performance frontier.

This report is a detailed and comprehensive analysis for global Discrete Semiconductor

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Device for Solid State Relays market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Discrete Semiconductor Device for Solid State Relays market size and forecasts, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Discrete Semiconductor Device for Solid State Relays market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Discrete Semiconductor Device for Solid State Relays market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Discrete Semiconductor Device for Solid State Relays market shares of main players, shipments in revenue ($ Million), sales quantity (Million Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Discrete Semiconductor Device for Solid State Relays

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Discrete Semiconductor Device for Solid State Relays market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon, onsemi, STMicroelectronics, Toshiba, Vishay, Fuji Electric, Renesas Electronics, Rohm, Nexperia, Mitsubishi Electric, etc.

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

Market Segmentation

Discrete Semiconductor Device for Solid State Relays market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

MOSFET

IGBT

Bipolar Power Transistors

Thyristors

Market segment by Materials

Silicon-based Devices

Non-silicon-based Devices

Market segment by Control Method

Current-driven Devices

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Voltage-driven Devices

Market segment by Application

PCB Mount Solid State Relay

Panel Mount Solid State Relay

Din Rail Mount Solid State Relay

Major players covered

Infineon

onsemi

STMicroelectronics

Toshiba

Vishay

Fuji Electric

Renesas Electronics

Rohm

Nexperia

Mitsubishi Electric

Market segment by region, regional analysis covers

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North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Discrete Semiconductor Device for Solid State Relays product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Discrete Semiconductor Device for Solid State Relays, with price, sales quantity, revenue, and global market share of Discrete Semiconductor Device for Solid State Relays from 2021 to 2026.

Chapter 3, the Discrete Semiconductor Device for Solid State Relays competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Discrete Semiconductor Device for Solid State Relays breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Discrete Semiconductor Device for Solid State Relays market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Discrete Semiconductor Device for Solid State Relays.

Chapter 14 and 15, to describe Discrete Semiconductor Device for Solid State Relays sales channel, distributors, customers, research findings and conclusion.

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