

Global Secondary Synchronous Rectification IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Secondary Synchronous Rectification IC market size is expected to reach \$ 643 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

Secondary Synchronous Rectification ICs (SSRCs) are specialized control chips used in the secondary-side rectification stage of isolated switching power supplies. They achieve synchronous rectification by detecting the polarity of the transformer's secondary voltage or current and driving an external MOSFET, replacing Schottky diodes. This significantly reduces conduction losses and reverse recovery losses, improves overall efficiency, and lowers temperature rise. They are widely used in adapters, fast chargers, communication power supplies, server power supplies, industrial power supplies, medical power supplies, and automotive isolated power supplies with flyback, forward, and LLC topologies. In 2025, global sales of secondary-side SSRC ICs were approximately 1.56 billion units, with an average unit price of approximately US\$0.21 and a capacity utilization rate of approximately 83%. The upstream mainly consists of wafer foundries and packaging and testing companies, analog and high-voltage BCD process platform suppliers, lead frame and packaging material suppliers, and testing and reliability verification service providers. The downstream includes switching power supply solution companies, power module manufacturers, charger and adapter ODMs, communication and data center power supply manufacturers, industrial power supply manufacturers, medical equipment power supply suppliers, and automotive electronic power supply Tier 1 suppliers. The industry's gross profit margin is approximately 45%. In the product cost structure, wafer manufacturing and packaging account for approximately 40%, packaging materials and lead frames for approximately 9%, testing and reliability verification for approximately 9%, R&D and application engineering amortization for approximately 21%, channel and

sales expenses for approximately 11%, and management and logistics expenses for approximately 10%. The demand list mainly includes fast charging adapters and chargers, high-efficiency TV and monitor power supplies, server and communication power modules, industrial DIN rail power supplies, medical power supplies, and automotive isolated DC power supplies. Downstream customers include leading power supply ODMs and solution companies, communication power equipment manufacturers, server power supply manufacturers, industrial power supply manufacturers, medical equipment power supply suppliers, and automotive electronic power system suppliers. Business opportunities arise from energy efficiency regulations and carbon reduction policies, the evolution of chargers and adapters towards higher power density and lower temperature rise, upgrades to synchronous rectification and quasi-resonant flyback and LLC platform technologies, and changing consumer demands from end customers for smaller size, lower heat generation, higher reliability, and lower overall electricity costs.

This report studies the global Secondary Synchronous Rectification IC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Secondary Synchronous Rectification IC 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 Secondary Synchronous Rectification IC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Secondary Synchronous Rectification IC total production and demand, 2021-2032, (K Units)

Global Secondary Synchronous Rectification IC total production value, 2021-2032, (USD Million)

Global Secondary Synchronous Rectification IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Secondary Synchronous Rectification IC consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Secondary Synchronous Rectification IC domestic production, consumption, key domestic manufacturers and share

Global Secondary Synchronous Rectification IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Secondary Synchronous Rectification IC production by Type, production, value,

CAGR, 2021-2032, (USD Million) & (K Units)

Global Secondary Synchronous Rectification IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Secondary Synchronous Rectification IC 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 NXP, Renesas, TI, STMicroelectronics, ADI, Nexperia, ROHM, Onsemi, MPS, Minebea Mitsumi, 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 Secondary Synchronous Rectification IC 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 Secondary Synchronous Rectification IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Secondary Synchronous Rectification IC Market, Segmentation by Type:

Controller

Driver

Other

Global Secondary Synchronous Rectification IC Market, Segmentation by Maximum Switching Frequency:

Maximum Switching Frequency: Below 100 kHz

Maximum Switching Frequency: 100-150 kHz

Maximum Switching Frequency: Above 150 kHz

Global Secondary Synchronous Rectification IC Market, Segmentation by VCC OVP:

VCC OVP: Below 40 V

VCC OVP: 40-60 V

VCC OVP: 60-80 V

VCC OVP: Above 80 V

Global Secondary Synchronous Rectification IC Market, Segmentation by Application:

Consumer Electronics

Industrial Power

Telecom

Medical

Automotives

Other

Companies Profiled:

NXP

Renesas

TI

STMicroelectronics

ADI

Nexperia

ROHM

Onsemi

MPS

Minebea Mitsumi

Kiwi Instruments

Hynetek Semiconductor

Zhuhai iSmartWare Technology

Deep-pool

Huayuan Semi

Shenzhen Jingdao Electronic

Key Questions Answered:

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

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