

Global Super Junction MOSFET for Charging Pile Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G45BDBF05BD7EN.html>

Date: January 2026

Pages: 142

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

ID: G45BDBF05BD7EN

Abstracts

The global Super Junction MOSFET for Charging Pile market size is expected to reach \$ 224 million by 2032, rising at a market growth of 27.9% CAGR during the forecast period (2026-2032).

Super Junction MOSFET for Charging Pile refers to a high-voltage silicon (Si) power MOSFET built on the superjunction / charge-balanced drift-region concept, used as a fast, voltage-driven switch in EV charging power stages. Superjunction devices use alternating N/P columns in the drift region so the charges balance, which enables much lower specific RDS(on) than conventional planar high-voltage MOSFETs at the same breakdown voltage.

Upstream starts from silicon wafers and an epitaxial/drift layer in which the superjunction charge-balanced pillar structure is formed (commonly via process routes such as trench/pillar formation approaches, followed by cell formation, gate oxidation, implantation/diffusion, metallization and passivation). The charge-balancing principle means the blocking capability is largely set by the epi thickness while keeping lower resistance, so process control of pillar charge balance, oxide quality, and defectivity is central to performance and reliability.

Downstream, superjunction MOSFETs are widely used in charging-pile power conversion stages where 600-650 V class silicon devices remain attractive for cost and supply-chain maturity.

In 2025, global sales of Super Junction MOSFET for Charging Pile reached approximately 17 million Pcs, with an average global market price of around US\$ 2.2/Pcs. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 30% to 50%.

EV charging infrastructure is moving toward higher power density, higher efficiency, and lower system cost, pushing power semiconductors into a system-level tradeoff among efficiency, EMI, thermal design, reliability, and supply resilience. In this context,

superjunction MOSFETs remain highly relevant thanks to mature silicon manufacturing, a strong cost/performance balance, and broad design-in familiarity. They are widely used across front-end AC-DC stages, isolated DC-DC conversion, and auxiliary power rails, especially where serviceability and cost sensitivity matter. Leading vendors continue to position dedicated SJ families and reference platforms for charging-related converters, targeting lower switching losses and improved reverse recovery / dynamic behavior in soft-switching bridge topologies.

As charging systems shift to higher power classes, wide-bandgap devices increasingly take the role of main switches in the highest-efficiency paths. However, SJ MOSFETs are unlikely to disappear: modular architectures and tiered power stages still leave substantial room for silicon SJ in mid-power blocks, secondary supplies, and hybrid topologies where they act as helper or slow-leg devices. Going forward, the most defensible differentiation will come from device/package co-optimization—lower parasitics, better heat extraction, tighter consistency, and parameters tuned for EMI and lifetime robustness. The main headwinds are pricing pressure, platform-driven commoditization, and the high bar of long-duration reliability validation under harsh outdoor operating conditions.

This report studies the global Super Junction MOSFET for Charging Pile production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Super Junction MOSFET for Charging Pile 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 Super Junction MOSFET for Charging Pile that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Super Junction MOSFET for Charging Pile total production and demand, 2021-2032, (K Pcs)

Global Super Junction MOSFET for Charging Pile total production value, 2021-2032, (USD Million)

Global Super Junction MOSFET for Charging Pile production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Super Junction MOSFET for Charging Pile consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Super Junction MOSFET for Charging Pile domestic production, consumption, key domestic manufacturers and share

Global Super Junction MOSFET for Charging Pile production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Super Junction MOSFET for Charging Pile production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Super Junction MOSFET for Charging Pile production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Super Junction MOSFET for Charging Pile 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, STMicroelectronics, ROHM, onsemi, Toshiba, Vishay, Taiwan Semiconductor, Microchip, Magnachip, IceMOS Technology, 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 Super Junction MOSFET for Charging Pile market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) 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 Super Junction MOSFET for Charging Pile Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Super Junction MOSFET for Charging Pile Market, Segmentation by Type:

500V Class

600/650V Class

700/750V Class

800-950V Class

Global Super Junction MOSFET for Charging Pile Market, Segmentation by Converter Switching:

Hard-Switching Optimized

Soft-Switching Optimized

PFC-Optimized

Global Super Junction MOSFET for Charging Pile Market, Segmentation by Qualification Grade:

Industrial Grade

Automotive Grade

Global Super Junction MOSFET for Charging Pile Market, Segmentation by Application:

Residential

Commercial

Companies Profiled:

Infineon

STMicroelectronics

ROHM

onsemi

Toshiba

Vishay

Taiwan Semiconductor

Microchip

Magnachip

IceMOS Technology

PANJIT

Marching Power

CoolSemi

Oriental Semiconductor

Lonten Semiconductor

Jiangsu JieJie Microelectronics

Key Questions Answered:

1. How big is the global Super Junction MOSFET for Charging Pile market?
2. What is the demand of the global Super Junction MOSFET for Charging Pile market?
3. What is the year over year growth of the global Super Junction MOSFET for Charging Pile market?
4. What is the production and production value of the global Super Junction MOSFET for Charging Pile market?

5. Who are the key producers in the global Super Junction MOSFET for Charging Pile market?
6. What are the growth factors driving the market demand?

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