

Investigation Report on Global and China's MOSFET Market 2021-2025

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Abstracts

MOSFET is an acronym for Metal Oxide Semiconductor Field Effect Transistor, also known as MOS, MOS transistor. The name "metal-oxide-semiconductor" (MOS) typically refers to a type of insulated-gate field-effect transistor that is fabricated by the controlled oxidation of a semiconductor, typically silicon. It is a power semiconductor that is used as an electronic switch device to control the loads as per requirement. As the most basic electronic device, MOSFET has the characteristics of high frequency, voltage drive, and good resistance to breakdown. Its application covers power supplies, inverters, CPU and graphics cards, communications, consumer electronics, automotive electronics, industrial systems, and other fields.

In 2020, the revenue of global MOSFET Market revenue is about USD 8.6 billion, and CAGR from 2016 to 2020 is about 10%. In 2020, the sales value of China's MOSFET industry was approximately CNY 24.5 billion, with an increase of approximately 25.7% year-on-year, which is the highest in the past five years. The main reason is that the COVID-19 epidemic in 2020 has dealt a blow to MOSFET and its upstream market, resulting in a general increase in MOSFET prices by about 10% to 20%. Also, the development of new energy vehicles in China has stimulated the demand for MOSFET. From 2016 to 2020, MOSFET sales in China have increased year by year, with a CAGR of about 19%.

According to CRI's analysis, the power semiconductor Market to which MOSFET belongs has developed vigorously in recent years, and sales of MOSFET have increased in the semiconductor market year by year due to the advantages of stability and efficiency. However, Chinese MOSFET companies account for less than 40% of China's MOSFET market due to technological backwardness and other reasons. Therefore, China's MOSFET mainly relies on foreign-funded enterprises and imports.

In recent years, the main driving force for the growth of China's MOSFET market has come from new energy vehicles, consumer electronics, industries, home appliances, aerospace, and other market segments. China is the world's largest automobile producer and consumer. Also, China is the world's largest electronic product manufacturing base, and the world's largest manufacturing OEM base. It is expected that China will remain the world's largest MOSFET consumer market for a long time into the future and the market scale will continue to grow. In 2020, the output of new energy vehicles (electric vehicles) reached 1.456 million, with an increase of approximately 22% year-on-year. With the rapid increase in China's new energy vehicle production, the automotive sector has become an important driving force for the growth of China's MOSFET market.

In addition, in recent years, as China's labor costs continue to rise, the increase in the level of automation has become an inevitable choice for China's manufacturing market. The growing demand of the Chinese market for industrial automation equipment, such as CNC machine tools and industrial robots, has stimulated the demand for MOSFET. At the same time, with the rise of China's informatization level, the Internet of things market is developing rapidly, and the demand for smart cities, smart logistics, industrial monitoring is constantly increasing. According to CRI's research market, the scale of China's Internet of things market reached about CNY 1.8 trillion in 2020. The demand for MOSFET in the Chinese Internet of things market is also rising rapidly.

Topics covered:

Status of global MOSFET Market

Chinese government's supportive policies on MOSFET Market

Supply of MOSFET

Analysis of Market demand for MOSFET

Major MOSFET enterprises in China

Analysis of import and export of MOSFET in China

Threats and challenges to MOSFET Market

Prospect of MOSFET Market from 2021 to 2025

Impact of the Sino-U.S. trade war on MOSFET Market

Impact of COVID-19 on MOSFET Market

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