

Global Power MOSFET Market By Type, (Depletion Mode Power MOSFET, Enhancement Mode Power MOSFET), By Power rate, (High Power, Medium Power, Low Power), Industry Analysis, Trends, Estimation & Forecast, 2016 - 2024

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Abstracts

The Global Power MOSFET Market was valued at \$3.7 billion in 2016, and is projected to reach \$7 billion by 2024, having a CAGR of 7.6% during the forecast period of 2017 to 2024.

MOSFET stands for metal oxides semiconductor field effect transistor. It is a semiconductor device specifically designed to handle high power levels. As compared to other power semiconductor devices, MOSET is empowered with high switching speed and appreciable efficiency at low voltages. The power MOSFETs is widely used in the n-channel enhancement mode, p-channel enhancement mode, and in the nature of n-channel depletion mode. The power MOSFETS are highly used in various industries such as energy and power, consumer electronics, automotive and various others.

MARKET DETERMINANTS

Increasing demand for compact automation solutions, improved efficiency, and enhanced robustness have hiked the rate of adoption of power MOSFET in numerous fields such as consumer electronics, energy & power, and other applications. As a result, the global power MOSFET market is subjected to exhibit an impressive growth in the upcoming future. This is because of the compact size and enhanced durability of the MOSFET devices. On the other hand, high cost of implementation and current leakage are the major factors which can hamper the growth of power MOSFET market.



However, the Integration of power MOSFET technology with human machine interface (HMI) will act as future growth opportunity for the market.

SEGMENT ANALYSIS

The global power MOSFET market is segmented on the basis of type, power rate, application and geography. By type, the market is segmented as depletion mode power MOSFET and enhancement mode power MOSFET. On the basis of power rate, the market is segmented into high power, medium power and low power. By application, the market is segmented into energy & power, consumer electronics, automotive, inverter & UPS, industrial System and others. Geographically, the market is segmented into North America, Europe, Asia-Pacific and Rest of World. Enhancement mode power MOSFET market generated the highest revenue in 2016, holding more than 50% of the global market. The enhancement mode MOSFET transistors are mostly used as switches in electronic circuits because of their low ON resistance and high OFF resistance and also because of their high gate resistance. These transistors are used to make logic gates and in power switching circuits, such as CMOS gates, which have both NMOS and PMOS Transistors.

Some major market players of the power MOSFET market are IXYS Corporation, Mitsubishi Electric Corp., Infenion Technologies AG, Renesas Electronics Corporation, Toshiba Corporation, Texas Instruments, Inc., NXP Semiconductors N.V., Digi-Key Electronics, STMicroelectronics, N.V. and Power Integrations Inc.

GLOBAL POWER MOSFET market segmentation

By Type

Depletion Mode Power MOSFET

Enhancement Mode Power MOSFET

By Power rate

High Power

Medium Power



	Low Power		
By Application			
	Energy & Power		
	Consumer Electronics		
	Automotive		
	Inverter & UPS		
	Industrial System		
	Others		
By Geography			
	North America		
	U.S.		
	Mexico		
	Canada		
	Europe		
	Germany		
	France		
	Rest of Europe		
	Asia-Pacific		
	$\mathbf{L}_{\mathbf{r}}$, $\mathbf{P}_{\mathbf{r}}$		

India



KEY

	Japan	
	China	
	Australia	
	Rest of APAC	
Rest of World		
	Latin America	
	Middle East	
	Africa	
MARKET	PLAYERS	
IXYS C	orporation,	
Mitsubis	shi Electric Corp.	
Infenion Technologies AG		
Renesa	Renesas Electronics Corporation	
Toshiba	a Corporation	
Texas I	nstruments, Inc.	
NXP Se	emiconductors N.V.	
Digi-Ke	y Electronics	
STMicro	pelectronics, N.V.	

Power Integrations Inc.





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