

Power Discrete and Modules Market By Type (Power Discrete and Power Module), Component (Thyristor, Diodes, Rectifier, MOSFET, IGBT, and Others), Material (SiC, GaN, and Others), and Industry Vertical (Telecommunication, Industrial, Automotive, Renewable, Consumer & Enterprise, Military, Defense & Aerospace, and Medical): Global Opportunity Analysis and Industry Forecast, 2019–2026

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Abstracts

The global power discrete and modules market size was valued at \$20.75 billion in 2018, and is projected to reach \$35.92 billion by 2026, growing at a CAGR of 6.40% from 2019 to 2026. While power discrete are single semiconductor devices such as diodes or transistors used to regulate voltages with lower power consumption and reduced heat generation, power modules are power controlling circuit elements integrated on an isolated-base package optimized in size to deliver high number of watts in the least amount of space.

IGBT, a power module, is a power switching transistor constructed to combine the high input impedance and high switching speeds of MOSFET with the low saturation voltage of BJT. IGBT is capable of handling large collector-emitter currents with virtually zero gate current drive. The increase in applications of IGBT in consumer electronics, automotive, energy & power, and industries boosts the growth of the power discrete and modules market. Moreover, growth of power electronics in small gadgets fuels the further growth of the power discrete and modules market.

The demand for power discrete and module is expected to increase rapidly during the

forecast period, owing to various factors such as increase in demand for power electronics modules across various industry verticals, increase in emphasis on power saving, and emergence and growth of electric vehicles. However, lack of material availability such as GaN is estimated to hamper the market growth. Nonetheless, rise in number of government initiatives in HVDC and smart grids and technological advancement of power MOSFET are expected to provide lucrative growth opportunities to the power discrete and modules market players.

The global power discrete and modules market is segmented on the basis of type, component, material, industry vertical, and region. The type segment is bifurcated into power discrete and power module. Based on component, the market is categorized into thyristor, diode, rectifier, MOSFET, IGBT, and others. The material segment is bifurcated into SiC, GaN, and others. Based on industry vertical, the market is categorized into telecommunication; industrial; automotive; renewable; consumer & enterprise; military, defense, & aerospace; and medical. On the basis of region, it is analyzed across North America (the U.S., Mexico, and Canada), Europe (the UK, Germany, France, and rest of Europe), Asia-Pacific (China, India, Japan, South Korea, and rest of Asia-Pacific), and LAMEA (Latin America, Middle East, and Africa).

The key players operating in the power discrete and module market are Infineon Technologies AG, Mitsubishi Electric Corporation, Toshiba Corporation, ON Semiconductor, STMicroelectronics, NXP Semiconductors, Renesas Electronics Corporation, Texas Instruments, ROHM Semiconductors, and Semtech Corporation.

KEY MARKET SEGMENTS

BY TYPE

Power Discrete

Power Module

BY COMPONENT

Thyristor

Diode

Rectifier

MOSFET

IGBT

Other

BY MATERIAL

SiC

GaN

Others

BY INDUSTRY VERTICAL

Telecommunication

Industrial

Automotive

Renewable

Consumer and Enterprise

Military, Defense, and Aerospace

Medical

BY REGION

North America

U.S.

Mexico

Canada

Europe

UK

Germany

France

Rest of Europe

Asia-Pacific

China

India

Japan

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY PLAYERS

Infineon Technologies AG

Mitsubishi Electric Corporation

Toshiba Corporation

ON Semiconductor

STMicroelectronics

NXP Semiconductors

Renesas Electronics Corporation

Texas Instruments

ROHM Semiconductors

Semtech Corporation

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