

Global Bipolar Transistors Market Size study & Forecast, by Product Type (PNP, NPN, Hetero), by Application (Amplification, Switching), by End-User (Consumer Electronics, Automotive, Energy & Power, Manufacturing, Others) and Regional Analysis, 2022-2029

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Abstracts

Global Bipolar Transistors Market is valued at approximately USD 6.90 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 11.60% over the forecast period 2022-2029. Bipolar Transistor is a type of transistor that uses electrons as well as holes as charging carriers. These transistors are current-regulating devices that control the amount of current flowing from an emitter to collector terminals in proportion to the amount of biasing voltage. The Bipolar Transistors market is expanding because of factors such as Increasing demand for high-end technology and growing industrial applications.

According to Statista, in 2022, spending on digital transformation is projected to reach 1.6 trillion U.S. dollars. By 2026, global digital transformation spending is forecast to reach 3.4 trillion U.S. dollars. Furthermore, in 2021 there were estimated to be approximately 866.3 million people employed worldwide in agriculture, compared with 1.64 billion people in services, and 753 million people in the industry. Another important component driving space increase is technological advancement. The global standard insulated gate bipolar transistor market was valued at USD 6.96 billion in 2021, an estimated to reach 7.62 billion U.S. dollars by 2022. The IGBT market is expected to reach USD 11.32 billion by the end of the forecast period in 2026 . In addition, sales of power transistors worldwide amounted to 17.1 billion U.S. dollars in 2019 moreover forecast for 2021, the total sales of power transistors set to amount to USD 16.9 billion.

However, design complexities of Bipolar Transistors stifle market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Bipolar Transistors Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. Asia Pacific dominated the space in terms of revenue, owing to the dominance of growing industrial applications. According to Statista, in 2021, the semiconductor industry in the Asia-Pacific region generated revenue of around USD 342.97 billion and estimated to reach a revenue of approximately USD 411.97 billion in by 2023. North America is expected to grow with the highest growth rate during the forecast period, owing to factors such as rising technological advancement in the given market space.

Major market players included in this report are:

ON Semiconductor
NXP Semiconductors N.V.
Renesas Electronics Corporation
STMicroelectronics
Texas Instruments Inc.
Fairchild Semiconductor International, Inc.
Vishay Intertechnology, Inc.
Diodes Incorporated
Nexperia
Toshiba Electronic Devices

Recent Developments in the Market:

In Nov 2022-- onsemi announced that Mercedes-Benz adopted onsemi silicon carbide (SiC) technology for traction inverters as part of a strategic collaboration. The traction inverter of the all-electric Mercedes-Benz VISION EQXX is more effective and lighter thanks to onsemi's VE-Trac SiC modules, which can boost an EV's range by up to 10%. The traction inverter of the all-electric Mercedes-Benz VISION EQXX is more effective and lighter , which can boost an EV's range by up to 10%.

In Dec 2022 Renesas Electronics Corporation and Fixstars Corporation, announced the joint development for autonomous driving systems and advanced driver-assistance systems designed for the R-Car system-on-chip (SoC) devices from Renesas. With the aid of these tools, network models that take use of the R-capability Car's may be quickly developed with very accurate object detection from the very beginning of software development. This shortens development cycles by decreasing post-development

rework..

Global Bipolar Transistors Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Product Type, Application, End-user, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product type:

PNP

NPN

Hetero

By Application:

Amplification

Switching

By End-User:

Consumer Electronics

Automotive

Energy & Power

Manufacturing

Others

By Region:**North America****U.S.****Canada****Europe****UK****Germany****France****Spain****Italy****ROE****Asia Pacific****China****India****Japan****Australia****South Korea****RoAPAC****Latin America****Brazil****Mexico****RoLA****Rest of the World**

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