

Global Bidirectional ESD Diode Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G232D091E733EN.html>

Date: November 2025

Pages: 157

Price: US\$ 3,480.00 (Single User License)

ID: G232D091E733EN

Abstracts

According to our (Global Info Research) latest study, the global Bidirectional ESD Diode market size was valued at US\$ 1049 million in 2024 and is forecast to a readjusted size of USD 1469 million by 2031 with a CAGR of 4.9% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A bidirectional ESD (electrostatic discharge) diode is a semiconductor device specifically designed to protect electronic circuits from electrostatic discharge (ESD) damage. It can provide protection under both forward and reverse voltages and is suitable for circuit scenarios that require bidirectional overvoltage protection.

This report is a detailed and comprehensive analysis for global Bidirectional ESD Diode market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Bidirectional ESD Diode market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Bidirectional ESD Diode market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Bidirectional ESD Diode market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Bidirectional ESD Diode market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Bidirectional ESD Diode
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Bidirectional ESD Diode market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include STMicroelectronics, ON Semiconductor, Nexperia, Littelfuse, Vishay, Infineon, Rohm, Texas Instruments, Bourns, Diodes Incorporated, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Bidirectional ESD Diode market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Surface Mount

Plug-in

Market segment by Application

Consumer Electronics

Communication Industry

Automotive Electronics

Medical Electronics

Aerospace

Others

Major players covered

STMicroelectronics

ON Semiconductor

Nexperia

Littelfuse

Vishay

Infineon

Rohm

Texas Instruments

Bourns

Diodes Incorporated

Murata

KYOCERA AVX

Semtech

Micro Commercial Components

NXP Semiconductors

Toshiba

Jiangsu Changdian Technology

Leshan Radio

Yangjie Technology

Huawei Electronics

Silan Microelectronics

Hangzhou Dongwo Electronics

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Bidirectional ESD Diode product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bidirectional ESD Diode, with price, sales

quantity, revenue, and global market share of Bidirectional ESD Diode from 2020 to 2025.

Chapter 3, the Bidirectional ESD Diode competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bidirectional ESD Diode breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Bidirectional ESD Diode market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Bidirectional ESD Diode.

Chapter 14 and 15, to describe Bidirectional ESD Diode sales channel, distributors, customers, research findings and conclusion.

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