

2018-2023 Global Transient Voltage Suppressor (TVS) Diodes (TVS Diodes) Consumption Market Report

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Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global Transient Voltage Suppressor (TVS) Diodes (TVS Diodes) market for 2018-2023.

Transient Voltage Suppressors (TVS) are devices used to protect vulnerable circuits from electrical overstress such as that caused by electrostatic discharge, inductive load switching and induced lightning. Within the TVS, damaging voltage spikes are limited by clamping or avalanche action of a rugged silicon p-n junction which reduces the amplitude of the transient to a nondestructive level.

Transient Voltage Suppression (TVS) diodes are solid state p-n junction devices specifically designed to protect semiconductors from the damaging effects of transient voltages. The electrical characteristics of the transient protection circuit are determined by factors such as junction area, doping concentration, and substrate resistivity. The surge power and surge current capability of the TVS diode are proportional to the junction area. TVS diodes are constructed with large cross sectional area junctions for absorbing high transient current. While the VI characteristic curve of the TVS diode is similar to that of a zener diode, TVS diodes are specifically designed, characterized, and tested for transient voltage suppression. By contrast, zener diodes are designed and specified for voltage regulation.

China has the largest global export quantity and manufacturers in Transient Voltage Suppressor (TVS) Diodes market, while the North America is the second sales volume market for Transient Voltage Suppressor (TVS) Diodes in 2016.

In the industry, Vishay profits most in 2017 and recent years, while Littelfuse and BrightKing ranked 2 and 3. The market share of them is 24.26%, 19.82% and 15.29% in 2016. The gap of market share is keep on enlarged due to different strategy. In the next five years, the global consumption of Transient Voltage Suppressor (TVS) Diodes will show upward tendency further, consumption expected in 2022 will be 11676 M Unit.

Over the next five years, LPI(LP Information) projects that Transient Voltage Suppressor (TVS) Diodes (TVS Diodes) will register a 4.3% CAGR in terms of revenue, reach US\$ 700 million by 2023, from US\$ 540 million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of Transient Voltage Suppressor (TVS) Diodes (TVS Diodes) market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

Uni-polar TVS

Bi-polar TVS

Segmentation by application:

Automotive

Industry

Power Supplies

Military / Aerospace

Telecommunications

Computing

Consumer

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

Vishay

Littelfuse

BrightKing

STMicroelectronics

ON Semiconductor

WAYON

NXP

Diodes Inc.

Bourns

Infineon

LAN technology

ANOVA

SEMTECH

MDE

TOSHIBA

UN Semiconductor

PROTEK

INPAQ

EIC

SOCAY

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

Research objectives

To study and analyze the global Transient Voltage Suppressor (TVS) Diodes (TVS Diodes) consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of Transient Voltage Suppressor (TVS) Diodes (TVS Diodes) market by identifying its various subsegments.

Focuses on the key global Transient Voltage Suppressor (TVS) Diodes (TVS

Diodes) manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Transient Voltage Suppressor (TVS) Diodes (TVS Diodes) with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of Transient Voltage Suppressor (TVS) Diodes (TVS Diodes) submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

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