

Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Transient Voltage Suppressor (TVS) Diodes (TVS Diodes) Market 2018, Forecast to 2023

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Abstracts

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.

Scope of the Report

This report focuses on the Transient Voltage Suppressor (TVS) Diodes (TVS Diodes) in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

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.

The worldwide market for Transient Voltage Suppressor (TVS) Diodes (TVS Diodes) is expected to grow at a CAGR of roughly 4.3% over the next five years, will reach 700 million US\$ in 2023, from 540 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Vishay

Littelfuse

BrightKing

STMicroelectronics

ON Semiconductor

WAYON

NXP

Diodes Inc.

Bourns

Infineon

LAN technology

ANOVA

SEMTECH

MDE

TOSHIBA

UN Semiconductor

PROTEK

INPAQ

EIC

SOCAY

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

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

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Uni-polar TVS

Bi-polar TVS

Market Segment by Applications, can be divided into

Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Transient Voltage Suppress...

Automotive

Industry

Power Supplies

Military / Aerospace

Telecommunications

Computing

Consumer

Others

There are 15 Chapters to deeply display the global Transient Voltage Suppressor (TVS) Diodes (TVS Diodes) market.

Chapter 1, to describe Transient Voltage Suppressor (TVS) Diodes (TVS Diodes) Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Transient Voltage Suppressor (TVS) Diodes (TVS Diodes), with sales, revenue, and price of Transient Voltage Suppressor (TVS) Diodes (TVS Diodes), in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Transient Voltage Suppressor (TVS) Diodes (TVS Diodes), for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Transient Voltage Suppressor (TVS) Diodes (TVS Diodes) market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

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