

Global and China TVS Diodes Market Research by Company, Type & Application 2013-2025

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Abstracts

SUMMARY

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.

Market Segment as follows:

By Type

Uni-polar TVS

Bi-polar TVS

By Application

Consumer electronic

Automotive electronics

Power Supplies

Industrial

Computer

Telecommunications

Others

By Company

Vishay

Littelfuse

ON Semiconductor

STMicroelectronics

Bourns

NXP

Diodes Inc.

Infineon

BrightKing

ANOVA

FAIRCHILD

SEMTECH

MDE

TOSHIBA

EIC

PROTEK

WAYON

INPAQ

SOCAY

UN Semiconductor

MICROSEMI

Bencent

TOREX

ONCHIP

LAN technology

The main contents of the report including:

Section 1:

Product definition, type and application, global and China market overview;

Section 2:

Global and China Market competition by company;

Section 3:

Global and China sales revenue, volume and price by type;

Section 4:

Global and China sales revenue, volume and price by application;

Section 5:

China export and import;

Section 6:

Company information, business overview, sales data and product specifications;

Section 7:

Industry chain and raw materials;

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SWOT and Porter's Five Forces;

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Conclusion.

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