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Description:

Summary

Transient Voltage Suppressors (TVS) are devices used to protect vulnerable circuits from electrical overvoltage 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.

TVS Diodes market research report provides the newest industry data and industry future trends, allowing you to identify the products and end users driving revenue growth and profitability.

The industry report lists the leading competitors and provides the insights strategic industry analysis of the key factors influencing the market.

The report includes the forecasts, analysis and discussion of important industry trends, market size, market share estimates and profiles of the leading industry players.

Global TVS Diodes Market: Product Segment Analysis

Uni-polar TVS

Bi-polar TVS

Global TVS Diodes Market: Application Segment Analysis

Consumer electronic

Automotive electronics

Power Supplies

Industrial

Computer

Telecommunications

Global TVS Diodes Market: Regional Segment Analysis

USA

Europe

Japan

China

India

South East Asia

The players mentioned in our report

Vishay

Littelfuse

STMicroelectronics

Bourns

NXP

Diodes Inc.

Infineon

BrightKing

ANOVA

ON Semiconductor

FAIRCHILD

SEMTECH

MDE

TOSHIBA

EIC

PROTEK

WAYON

INPAQ

SOCAY

UN Semiconductor

MICROSEMI

Bencent

TOREX

ONCHIP

LAN technology

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