

## P0300SA Thyristor Surge Suppressors The Essential Protection for DC Surge Protection Device

Our Product Introduction

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### Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: REACH,RoHS,ISO
- Model Number: P0300SA
- Minimum Order Quantity: 2500PCS/REEL



### Product Specification

- Item: TSS DIODES
- Maximum Leakage Current: Less Than 5 $\mu$ A
- Description: Thyristor Surge Suppressors (TSS)
- Package Size: DO-214AA/SMB
- Component: Thyristor Surge Suppressors
- Tss Name: Thyristor Surge Suppressors (TSS)
- Highlight: **Essential Protection Thyristor Surge Suppressors**  
**, P0300SA Thyristor Surge Suppressors**

## Product Description

### Product Description:

The Thyristor Surge Suppressors (TSS) are state-of-the-art electrical surge protection devices designed to shield sensitive electronic circuits from the potentially destructive effects of power surges and transients. These components are an integral part of any robust electrical system, particularly in environments where electrical noise and surge events are frequent and unpredictable. The TSS devices are particularly well-suited for Ethernet surge protection, safeguarding network equipment from the abrupt electrical spikes that can occur in industrial settings or due to lightning strikes and other voltage disturbances.

Housed in a compact DO-214AA/SMB package size, these TSS diodes are designed to easily fit into a wide array of electronic devices without compromising on performance. The small form factor ensures that these surge suppressors can be integrated into PCB layouts with minimal space requirements, making them an excellent choice for applications where real estate on the board is at a premium. Despite their small size, they deliver robust protection and are a key component in preventing damage to sensitive electronic equipment. At the heart of the TSS diodes' effectiveness is their ability to react swiftly to over-voltage events, clamping down on excessive voltages and shunting the surplus energy away from the core components of the electronic system. This rapid response is crucial in preserving the integrity of the circuit and ensuring the continued operation of the device even in the face of severe electrical disturbances. The TSS diodes' capability to protect against electrical surges makes them indispensable in the design of reliable and durable electronic products. The maximum leakage current specification of less than 5µA is indicative of the high-quality design and manufacturing standards of the TSS diodes. This low leakage current ensures that the diodes do not significantly impact the overall power consumption of the device in which they are installed, nor do they introduce any meaningful noise or signal distortion in normal operation. The TSS diodes strike an optimal balance between providing powerful surge suppression and maintaining the efficiency and performance of the electronic system. As Ethernet surge protection devices, the TSS diodes are particularly well-suited for safeguarding communication equipment. Ethernet connections, being widespread in both residential and commercial settings, are often susceptible to voltage transients that can compromise data integrity, reduce the lifespan of the equipment, or even lead to catastrophic failure. By deploying TSS diodes in Ethernet-connected devices, manufacturers can ensure that their products are capable of withstanding unexpected voltage spikes, thus preserving data communication and preventing downtime.

In summary, the TSS diodes are an essential component for any application requiring robust surge suppression to protect against voltage transients. Their small package size, rapid response time, low leakage current, and powerful clamping capabilities make them an excellent choice for a wide variety of applications, including but not limited to Ethernet surge protection. Manufacturers and engineers can rely on these Thyristor Surge Suppressors to secure their electronic designs against the unpredictable nature of electrical surges, ensuring both the longevity and reliability of their electronic products.

### Features:

**Product Name:** Thyristor Surge Suppressors

**Tss Name:** Thyristor Surge Suppressors (TSS)

**Description:** The Thyristor Surge Suppressors (TSS) are designed as a Surge Protection Device with exceptional performance for safeguarding electronic systems.

**Maximum Leakage Current:** Less Than 5µA, ensuring minimal power loss and high-efficiency surge protection.

**Item:** TSS DIODES, a key component in DC Surge Protection Devices.

**Component:** Utilizes Thyristor technology for reliable Surge Protection Device functionality.

### Technical Parameters:

Attribute	Details
Item	TSS DIODES
Component	Thyristor Surge Suppressors
Description	Thyristor Surge Suppressors (TSS) are advanced Surge Protection Devices designed for Ethernet Surge Protection Devices and Electrical Surge Protection Devices applications, ensuring robust protection against transient voltage spikes.
Tss Name	Thyristor Surge Suppressors (TSS)
Package Size	DO-214AA/SMB
Maximum Leakage Current	Less Than 5µA

### Applications:

The SOCAY P0300SA Thyristor Surge Suppressors (TSS) are a specialized component designed for robust surge protection in sensitive electronics. With the increasing demand for protection of electronic devices from voltage spikes, the SOCAY P0300SA serves as a critical component for various applications. These applications span across multiple industries and scenarios where electronic devices are at risk of damage due to transient voltage surges.

Manufactured in the technological hub of Shenzhen, Guangdong, China, the SOCAY P0300SA Thyristor Surge Suppressors are certified with REACH, RoHS, and ISO, ensuring their compliance with rigorous environmental and quality standards. The device is available in a DO-214AA/SMB package size, with a minimum order quantity of 2500PCS/REEL, and provides surge protection with a maximum leakage current of less than 5µA, making it an efficient surge protection device.

One common application of the SOCAY P0300SA is in Ethernet Surge Protection Devices. As Ethernet connections become ubiquitous in both commercial and residential settings, the need for protecting networking equipment from voltage spikes is paramount. The SOCAY P0300SA can be integrated into Ethernet surge protectors to safeguard network cards, switches, routers, and modems, ensuring uninterrupted connectivity and preventing costly damage to networking infrastructure.

Additionally, the SOCAY P0300SA Thyristor Surge Suppressors find their use in consumer electronics such as televisions, gaming consoles, and home theater systems. These devices are particularly vulnerable to power surges caused by lightning strikes or power grid fluctuations. By incorporating the SOCAY P0300SA into surge protection circuits within these devices, manufacturers can offer consumers added assurance against device failure and data loss.

Industrial settings also benefit from the SOCAY P0300SA, where surge protection is necessary for machinery control systems, sensors, and automation equipment. The robust design of the SOCAY P0300SA ensures that it can withstand the harsh electrical environments often found in industrial applications, providing reliable operation and minimizing downtime due to electrical disturbances.

Moreover, the SOCAY P0300SA is suitable for telecommunications equipment, including base stations, repeaters, and antennas that require constant protection from electrical surges to maintain service integrity. In the field of renewable energy, such as solar panel installations and wind turbines, the SOCAY P0300SA plays a crucial role in protecting inverters and control units from surge events caused by weather phenomena.

In conclusion, the SOCAY P0300SA Thyristor Surge Suppressors are a versatile and essential component for any surge protection device. Their applications span a wide range of scenarios from home electronics to industrial and telecommunications equipment, offering reliable surge protection to preserve the longevity and functionality of valuable electronic systems.

### Customization:

**Brand Name:** SOCAY

**Model Number:** P0300SA

**Place of Origin:** Shenzhen, Guangdong, China

**Certification:** REACH, RoHS, ISO

**Minimum Order Quantity:** 2500PCS/REEL

**Maximum Leakage Current:** Less Than 5μA

**Component:** Thyristor Surge Suppressors

**Item:** TSS DIODES

**Description:** The SOCAY P0300SA Thyristor Surge Suppressors are designed for use as a Surge Protection Device in a variety of applications, including Ethernet Surge Protection Devices and DC Surge Protection Device systems. These TSS DIODES ensure reliable protection against transient voltage spikes and surges, safeguarding your sensitive electronics.

**Package Size:** DO-214AA/SMB

### FAQ:

**Q1: What is the brand name and model number of this Thyristor Surge Suppressor?**

A1: The brand name is SOCAY, and the model number is P0300SA.

**Q2: Where is the SOCAY P0300SA Thyristor Surge Suppressor manufactured?**

A2: It is manufactured in Shenzhen, Guangdong, China.

**Q3: Does the SOCAY P0300SA comply with any certifications?**

A3: Yes, it is certified with REACH, RoHS, and ISO standards.

**Q4: What is the minimum order quantity for the SOCAY P0300SA Thyristor Surge Suppressor?**

A4: The minimum order quantity is 2500 pieces per reel.

**Q5: Can the SOCAY P0300SA be used in both residential and commercial applications?**

A5: Yes, the SOCAY P0300SA is suitable for a variety of applications, but please ensure it meets the specific requirements for your intended use.





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