



Maximum Leakage Current Less Than 5μA TSS Name P1100SA for Electrical Surge Protection Devices

Our Product Introduction

for more products please visit us on socaydiode.com

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: REACH,RoHS,ISO
- Model Number: P1100SA
- Minimum Order Quantity: 2500PCS/REEL



Product Specification

- Maximum Leakage Current: Less Than 5μA
- Tss Name: Thyristor Surge Suppressors (TSS)
- Description: Thyristor Surge Suppressors (TSS)
- Package Size: DO-214AA/SMB
- Component: Thyristor Surge Suppressors
- Item: TSS DIODES
- Highlight: **Surge Protection Devices TSS P1100SA, 5μA TSS P1100SA**

Product Description

Product Description:

The Thyristor Surge Suppressors (TSS) are advanced DC surge protection devices specifically designed to safeguard electronic systems from the devastating impacts of voltage transients. These electrical surge protection devices integrate state-of-the-art technology to deliver superior performance in a compact package. TSS units are known for their exceptional ability to clamp and withstand high surge currents, making them an essential component in any circuitry subjected to electrical disturbances.

One of the most critical parameters for surge suppressors is the maximum leakage current. The Thyristor Surge Suppressors under discussion boast an impressively low maximum leakage current of less than 5µA. This low leakage current ensures that the TSS will not affect the normal operation of the circuit by introducing minimal power loss and maintaining high efficiency. It is a crucial feature for sensitive electronic applications where power conservation and minimal interference are of paramount importance.

Thyristor Surge Suppressors operate by transitioning to a low-impedance state upon detecting an overvoltage condition, thus shunting excess energy away from the protected components. Once the surge has passed, the TSS will revert to its high-impedance state, effectively resetting the device for the next transient event. This dynamic response is particularly beneficial for protecting against repetitive surges, ensuring long-term reliability and stability of the electronic system.

The packaging of these electrical surge protection devices is also an important consideration. The Thyristor Surge Suppressors come in the DO-214AA/SMB package size, which is well-suited for surface mount technology (SMT). This package size allows for efficient use of PCB real estate, making it possible to design compact and space-efficient products without sacrificing performance. The robustness of the DO-214AA/SMB package also provides enhanced mechanical strength and environmental resistance, which is vital for applications exposed to harsh conditions.

Implementing TSS devices in an electronic system provides several benefits, including enhanced safety for both the device and the user. By preventing the surge energy from reaching sensitive components, the risk of fire, shock, or equipment damage is significantly reduced. Moreover, the longevity of the electronic system is increased, as the components are not subjected to the stress of overvoltage conditions, which can degrade their performance over time.

Thyristor Surge Suppressors are versatile and can be employed in a wide range of applications. They are particularly well-suited for DC surge protection in telecommunications equipment, power supply units, and data lines. Furthermore, any application that requires tight voltage clamping and a rapid response to surges can benefit from the integration of TSS units. With their high surge capability and low leakage current, these devices are also ideal for use in industrial and commercial environments where power disturbances are common. In conclusion, Thyristor Surge Suppressors represent a sophisticated solution for safeguarding electronic systems from voltage transients. With their low maximum leakage current of less than 5µA, compact DO-214AA/SMB package size, and their exceptional performance as electrical surge protection devices, TSS units are a valuable addition to any circuit requiring robust DC surge protection. The reliability, efficiency, and versatility of Thyristor Surge Suppressors make them a top choice for designers and engineers looking to enhance the protection of their electronic applications.

Features:

Product Name: Thyristor Surge Suppressors

Tss Name: Thyristor Surge Suppressors (TSS)

Component: Thyristor Surge Suppressors

Description: Thyristor Surge Suppressors (TSS) are reliable DC Surge Protection Devices designed to safeguard electronic systems from overvoltage transients. As an essential Surge Protection Device, TSS units ensure robust Electrical Surge Protection for a variety of applications.

Package Size: DO-214AA/SMB

Maximum Leakage Current: Less Than 5µA

Technical Parameters:

Attribute	Details
Item	TSS DIODES
Maximum Leakage Current	Less Than 5µA
Component	Thyristor Surge Suppressors
Tss Name	Thyristor Surge Suppressors (TSS)
Package Size	DO-214AA/SMB
Description	Thyristor Surge Suppressors (TSS) are advanced Surge Protection Devices designed for DC Surge Protection, providing robust Electrical Surge Protection for sensitive electronic circuits.

Applications:

The SOCA Y P1100SA Thyristor Surge Suppressors (TSS) are specialized components designed for the protection of electronic circuits from voltage transients induced by lightning and other transient voltage events. As a high-quality surge protection device, the SOCA Y P1100SA is essential for securing the integrity of electrical systems in a variety of applications and scenarios. With the place of origin in Shenzhen, Guangdong, China, and certifications such as REACH, RoHS, and ISO, the SOCA Y TSS ensures compliance with strict industry standards.

One of the primary applications of the P1100SA TSS DIODES is as Ethernet Surge Protection Devices. In networking equipment, these devices safeguard the integrity of Ethernet ports by clamping excess voltage and diverting surge current away from sensitive components. They are critical in environments where Ethernet cables may run outside of a building and be exposed to lightning strikes or

other electrostatic discharges. The SOCAT TSS provides robust protection for servers, switches, routers, and other networking devices. Another key application for the P1100SA TSS is within Electrical Surge Protection Devices. These surge suppressors are integrated into power supply units, consumer electronics, and industrial control systems to provide a shield against voltage spikes. The low maximum leakage current of less than 5µA ensures minimal impact on the normal operation of the electrical system, while the DO-214AA/SMB package size is convenient for PCB mounting and space-sensitive designs. Additionally, the SOCAT P1100SA TSS is an essential component for general Surge Protection Devices used in residential, commercial, and industrial settings. This can range from surge protective panels, uninterruptible power supplies (UPS), to HVAC systems and lighting control systems. The device's ability to respond rapidly to voltage transients makes it an ideal choice for applications that require immediate protection to prevent damage and downtime. With a minimum order quantity of 2500PCS/REEL, the SOCAT P1100SA is suitable for large-scale deployments across various sectors, including telecommunications, computing, industrial automation, and consumer electronics. The SOCAT brand is synonymous with reliability and performance, ensuring that their Thyristor Surge Suppressors are a go-to solution for any scenario requiring dependable surge protection. By incorporating SOCAT TSS DIODES into their designs, manufacturers and engineers can significantly enhance the safety and longevity of their electronic products and systems.

Customization:

Brand Name: SOCAT

Model Number: P1100SA

Place of Origin: Shenzhen, Guangdong, China

Certification: REACH, RoHS, ISO

Minimum Order Quantity: 2500PCS/REEL

Package Size: DO-214AA/SMB

Component: Thyristor Surge Suppressors

Description: Thyristor Surge Suppressors (TSS) are designed to provide superior protection in Ethernet Surge Protection Devices, Electrical Surge Protection Devices, and Surge Protection Device applications. These SOCAT TSS devices, particularly model P1100SA, ensure reliable defense against transient overvoltages.

Tss Name: Thyristor Surge Suppressors (TSS)

Maximum Leakage Current: Less Than 5µA

FAQ:

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

A1: The brand is SOCAT and the model number is P1100SA.

Q2: Where is the SOCAT P1100SA Thyristor Surge Suppressor manufactured?

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

Q3: Does the SOCAT P1100SA Thyristor Surge Suppressor come with any certifications?

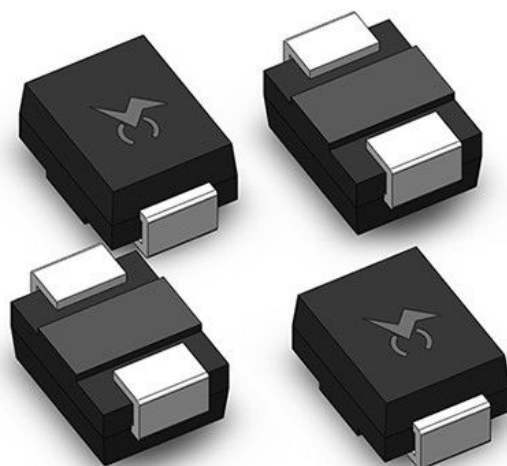
A3: Yes, it comes with REACH, RoHS, and ISO certifications.

Q4: What is the minimum order quantity for the SOCAT P1100SA Thyristor Surge Suppressor?

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

Q5: Can the SOCAT P1100SA be used for both AC and DC applications?

A5: The suitability for AC or DC applications depends on the specific characteristics of the thyristor. Please refer to the product datasheet or contact technical support for more information on its use in AC and DC circuits.





+8618126201429



sylvia@socay.com



socaydiode.com

4/F, Block C, HeHengXing Science & Technology Park, 19 MinQing Road, LongHua District, Shenzhen City,
GuangDong Province, China