



300pF SMA Package SS520A Schottky Barrier Diode High Forward Surge Current Semiconductor

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, China
- Brand Name: SOCAY
- Certification: REACH, RoHS, ISO
- Model Number: SS520A
- Minimum Order Quantity: 5000PCS/REEL
- Packaging Details: DO-214AC(SMA)



Product Specification

- Maximum RMS Voltage: 140V
- Peak Forward Surge Current: 150A
- Operating Junction Temperature Range: -55 To +150
- Maximum DC Blocking Voltage: 520V
- Maximum Repetitive Peak Reverse Voltage: 520V
- Maximum Average Forward Current: 5A
- Package: DO-214AC(SMA)
- Typical Junction Capacitance: 300pF

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Product Description

Product Description:

One of the key features of this Schottky Barrier Diode is its wide operating junction temperature range of -55 to +150 . This makes it suitable for use in harsh environments where temperature fluctuations are common. It can withstand high temperatures without compromising its performance, ensuring reliable and consistent operation.

The diode also has a peak forward surge current of 150A, which means it can handle large currents for short periods of time without getting damaged. Its high surge capability makes it ideal for use in power supplies, voltage regulators, and other applications that require a high current handling capacity.

Another important feature of this Schottky Barrier Diode is its typical junction capacitance of 300pF. This is the amount of charge that can be stored at the junction of the diode, and it influences the diode's switching speed. The lower the capacitance, the faster the diode can switch, which is essential in high-frequency applications where fast switching is required.

The Schottky Barrier Diode also has a maximum repetitive peak reverse voltage of 40V, which means it can withstand reverse voltage without getting damaged. This makes it ideal for use in applications where the voltage may fluctuate or where there is a possibility of voltage spikes.

The diode comes in a DO-214AC (SMA) package, which is a surface mount package that is easy to mount on printed circuit boards. This package is widely used in various electronic devices, making it easy to integrate the Schottky Barrier Diode into different types of circuits. In summary, the Schottky Barrier Diode is a type of diode that is widely used in various applications where high efficiency and low power loss are crucial. It has a wide operating junction temperature range, high surge capability, low junction capacitance, and can withstand reverse voltage. Its DO-214AC (SMA) package makes it easy to mount on printed circuit boards. Overall, this diode is an essential component in many electronic devices and is often used in conjunction with other diodes, diode triode transistors, and other electronic components.

Features:

Product Name: Schottky Barrier Diode

Operating Junction Temperature Range: -55 To +150

Package: DO-214AC(SMA)

Maximum RMS Voltage: 140V

Typical Junction Capacitance: 300pF

Maximum Repetitive Peak Reverse Voltage: 200V

Keywords: Electrostatic Diode, Bridge Rectifier Diode, Diode Electronic Component

Technical Parameters:

Product Attribute	Value
Schottky Barrier Rectifiers	
Operating Junction Temperature Range	-55 To +150
Package	DO-214AC(SMA)
Maximum Repetitive Peak Reverse Voltage	200V
Peak Forward Surge Current	150A
Maximum RMS Voltage	140V
Maximum Average Forward Current	5A
Typical Junction Capacitance	300pF
Maximum DC Blocking Voltage	200V
Surface Mount Schottky Barrier Rectifiers	

Applications:

One of the most common uses of the SS520A is in power rectification circuits. It can be used to convert AC power to DC power, making it ideal for power supplies in electronic devices such as computers, televisions, and other appliances.

The SS520A can also be used in low voltage circuits such as voltage clamping circuits, reverse polarity protection circuits, and battery charging circuits. This diode electronic component is designed to handle high current and voltage spikes, making it an excellent choice for protecting electronic devices from damage caused by power surges.

Additionally, the SS520A can be used in various applications such as audio amplifiers, signal conditioning, and data acquisition systems. Its small package size of DO-214AC(SMA) makes it easy to incorporate into existing designs.

Due to its operating junction temperature range of -55 to +150 , the SS54A can withstand extreme temperatures without losing its functionality. This makes it suitable for use in harsh environments such as automotive, aerospace, and industrial applications.

The minimum order quantity for the SS520A is 5000PCS/REEL, and it comes packaged in DO-214AC(SMA). Its maximum RMS voltage of 140V and surface mounted design make it a versatile and reliable choice for various electronic applications.

FAQ:

Q: What is the brand name of the Schottky Barrier Diode?

A: The brand name of the Schottky Barrier Diode is SOCAY.

Q: What is the model number of the Schottky Barrier Diode?

A: The model number of the Schottky Barrier Diode is SS54A.

Q: Where is the Schottky Barrier Diode made?

A: The Schottky Barrier Diode is made in Shenzhen, China.

Q: What are the certifications for the Schottky Barrier Diode?

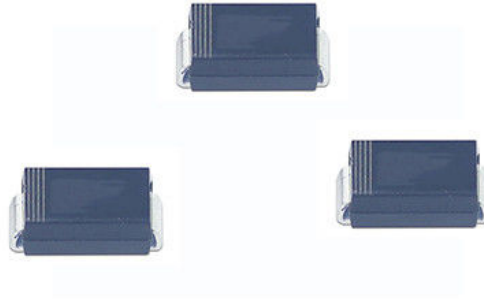
A: The Schottky Barrier Diode is certified by REACH, RoHS, and ISO.

Q: What is the minimum order quantity for the Schottky Barrier Diode?

A: The minimum order quantity for the Schottky Barrier Diode is 5000PCS/REEL.

Q: What is the packaging for the Schottky Barrier Diode?

A: The packaging for the Schottky Barrier Diode is DO-214AC(SMA).



Shenzhen Socay Electronics Co., Ltd.



+8618126201429



sylvia@socay.com



socaydiode.com

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