



DO-214AC SMA Package Schottky Barrier Diode 40V 2A Low Voltage Rectifier for Performance

Our Product Introduction

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Basic Information

- Place of Origin: Shenzhen, China
- Brand Name: SOCAY
- Certification: REACH, RoHS, ISO
- Model Number: SS24A
- Minimum Order Quantity: 5000PCS/REEL
- Packaging Details: DO-214AC(SMA)



Product Specification

- Operating Junction Temperature Range: -65 To +125
- Maximum RMS Voltage: 28V
- Maximum DC Blocking Voltage: 40V
- Storage Temperature Range: -65 To +125
- Average Rectified Current At TA=75 : 2A
- Package: DO-214AC(SMA)
- Peak Forward Surge Current: 50A
- Maximum Repetitive Peak Reverse Voltage: 40V

Product Description

Product Description:

This diode has a storage temperature range of -65 to +125 , making it ideal for use in harsh environments. It has an operating junction temperature range of -65 to +125 , which ensures that it can operate efficiently even at high temperatures.

The Schottky Barrier Diode is designed to handle a maximum DC blocking voltage of 40V. This means that it can withstand voltage surges and spikes, making it ideal for use in power supplies and audio amplifiers.

When operated at TA=75 , this diode can handle an average rectified current of up to 2A. This makes it suitable for use in applications that require high current flow.

In addition, the Schottky Barrier Diode can handle a peak forward surge current of up to 50A. This ensures that it can handle sudden surges in current without being damaged.

In summary, the Schottky Barrier Diode is a high-performance diode that is ideal for use in various electronic applications. It is a surface mounted diode that is designed to handle high current flow and voltage surges. With its wide storage and operating temperature range, it can operate efficiently in harsh environments. If you need a reliable and efficient diode for your electronic projects, the Schottky Barrier Diode is definitely worth considering.

Features:

Product Name: Schottky Barrier Diode

Maximum Repetitive Peak Reverse Voltage: 40V

Maximum DC Blocking Voltage: 40V

Storage Temperature Range: -65 To +125

Operating Junction Temperature Range: -65 To +125

Maximum RMS Voltage: 28V

This product belongs to the family of Schottky Barrier Rectifiers, Diodes, Diode Triode Transistor.

Technical Parameters:

Technical Parameter	Value
Product Type	Schottky Barrier Rectifiers
Average Rectified Current at TA=75	2A
Maximum Repetitive Peak Reverse Voltage	40V
Package	DO-214AC(SMA)
Storage Temperature Range	-65 To +125
Maximum DC Blocking Voltage	40V
Peak Forward Surge Current	50A
Operating Junction Temperature Range	-65 To +125
Maximum RMS Voltage	28V
Product Description	Surface mounted Diode

Applications:

Power supplies - SOCAY SS24A can be used in power supplies to provide a low voltage drop and high switching speed. Its maximum DC Blocking Voltage of 40V makes it suitable for low voltage power supplies.

Solar panels - SOCAY SS24A can also be used in solar panels due to its low voltage drop and high efficiency. It can handle a Peak Forward Surge Current of 50A, making it suitable for high current applications.

Automotive electronics - Due to its high reliability and fast switching speed, SOCAY SS24A can be used in various automotive electronics applications such as reverse polarity protection, voltage regulation, and battery management.

Consumer electronics - SOCAY SS24A can be used in various consumer electronics products such as smartphones, tablets, and laptops due to its high efficiency, low voltage drop, and small package size.

Some of the common scenarios where SOCAY SS24A can be used are:

DC-DC converters - SOCAY SS24A can be used in DC-DC converters to provide a low voltage drop and high efficiency.

Rectification - SOCAY SS24A can be used in rectification circuits to convert AC voltage to DC voltage.

Reverse polarity protection - SOCAY SS24A can be used as a reverse polarity protection diode to protect electronic circuits from damage due to reverse voltage.

SOCAY SS24A is certified by REACH, RoHS, and ISO, ensuring its compliance with environmental and quality standards. The minimum order quantity for SOCAY SS24A is 5000PCS/REEL and it is packaged in DO-214AC(SMA) package. Its storage temperature range is - 65 to +125 and it can handle a Maximum RMS Voltage of 28V.

FAQ:

Frequently Asked Questions for SOCAY SS24A Schottky Barrier Diode

Q: What is the SS24A Schottky Barrier Diode?

A: The SS24A is a high-performance Schottky Barrier Diode designed for use in rectification and voltage regulation applications. It is produced by SOCAY, a leading manufacturer of electronic components based in Shenzhen, China.

Q: What are the key features of the SS24A?

A: The SS24A offers low forward voltage drop, fast switching speed, high junction temperature, and high reliability. It is a RoHS, REACH, and ISO certified product that conforms to international quality standards.

Q: What is the minimum order quantity for the SS24A?

A: The minimum order quantity for the SS24A is 5000 pieces per reel. This is the standard packaging format for the SS24A, which comes in a DO-214AC (SMA) package.

Q: What are the typical applications of the SS24A?

A: The SS24A is suitable for a wide range of applications, including power supplies, LED lighting, battery chargers, and DC-DC converters. Its high efficiency and low power dissipation make it an ideal choice for energy-saving devices.

Q: Is the SS24A Schottky Barrier Diode compatible with other electronic components?

A: Yes, the SS24A is compatible with a wide range of electronic components, including other diodes, transistors, and integrated circuits. Its compact size and simple design make it easy to integrate into existing circuits.



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