

## SBD304D1 Maximum Repetitive Peak Reverse Voltage for 40V Low Voltage Rectifier Diode

Our Product Introduction

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### Basic Information

- Place of Origin: Shenzhen, China
- Brand Name: SOCAY
- Certification: REACH, RoHS, ISO
- Model Number: SBD304D1
- Minimum Order Quantity: 3000 PCS/REEL
- Packaging Details: SOD-123FL



### Product Specification

- Peak Forward Surge Current: 50A
- Maximum Repetitive Peak Reverse Voltage: 40V
- Maximum RMS Voltage: 28V
- Average Rectified Current At  $T_A=75^\circ\text{C}$ : 3A
- Operating Junction Temperature Range:  $-50^\circ\text{C}$  To  $+150^\circ\text{C}$
- Maximum DC Blocking Voltage: 40V
- Package: SOD-123FL
- Storage Temperature Range:  $-50^\circ\text{C}$  To  $+150^\circ\text{C}$

## Product Description

### Product Description:

The operating junction temperature range of this Schottky Barrier Diode is from -50 to +150 , making it suitable for use in a variety of environments. This makes it a versatile choice for applications that require a reliable and durable diode electronic component. The Schottky Barrier Diode is available in a compact SOD-123FL package, which allows for easy installation and integration into various circuits. The package is designed to withstand high temperatures, ensuring that the diode can operate efficiently and reliably in harsh environments.

With a maximum DC blocking voltage of 40V, this Schottky Barrier Diode provides excellent protection against reverse voltage and current flows. It is an ideal choice for applications where safety and reliability are paramount.

In summary, our Schottky Barrier Diode is a high-performance diode electronic component that offers superior performance and reliability. It is suitable for use in a variety of applications, including bridge rectifier diode circuits, and is designed to withstand harsh environments. With a maximum DC blocking voltage of 40V and an average rectified current of 3A at TA=75 , it is an ideal choice for applications that require high levels of safety and reliability.

### Features:

Product Name: Schottky Barrier Diode

High forward surge current Semiconductor

Maximum DC Blocking Voltage: 40V

Peak forward Surge Current: 50A

Average Rectified Current at TA=75 : 3A

Surface Mount Schottky Barrier Rectifiers

Storage Temperature Range: -50 To +150

Maximum RMS Voltage: 28V

Diodes

### Technical Parameters:

| Technical Parameter                     | Value                  |
|---|------------------------|
| Product Type                            | Schottky Barrier Diode |
| Maximum Repetitive Peak Reverse Voltage | 40V                    |
| Average Rectified Current at TA=75      | 3A                     |
| Maximum RMS Voltage                     | 28V                    |
| Peak Forward Surge Current              | 50A                    |
| Maximum DC Blocking Voltage             | 40V                    |
| Package                                 | SOD-123FL              |
| Storage Temperature Range               | -50 To +150            |
| Operating Junction Temperature Range    | -50 To +150            |

### Applications:

SBD304D1 is a high-quality Schottky Barrier Diode that has a maximum DC blocking voltage of 40V and a maximum repetitive peak reverse voltage of 40V. It also has a peak forward surge current of 50A. The temperature range for operating junction is from -50 to +150 which makes it suitable for use in a wide range of environments.

The packaging details of SBD304D1 is SOD-123FL. It has a minimum order quantity of 3000PCS/REEL which makes it suitable for both small and large scale manufacturing. This product is ideal for use in various electronic devices that require a high-quality bridge rectifier diode.

SBD304D1 can be used in various application occasions and scenarios. It can be used in power supplies, DC/DC converters, and reverse battery protection circuits. It can also be used in battery charging and discharging circuits, freewheeling diodes, and polarity protection diodes.

In summary, SOCA Y SBD304D1 is a high-quality Schottky Barrier Diode with a maximum DC blocking voltage of 40V and a maximum repetitive peak reverse voltage of 40V. It is suitable for use in a wide range of environments and can be used in various electronic devices that require a high-quality bridge rectifier diode. Its packaging details is SOD-123FL and it has a minimum order quantity of 3000PCS/REEL.

### FAQ:

**Q1: What is the brand name of this Schottky Barrier Diode?**

A1: The brand name of this product is SOCA Y.

**Q2: What is the model number of this Schottky Barrier Diode?**

A2: The model number of this product is SBD304D1.

**Q3: Where is this Schottky Barrier Diode manufactured?**

A3: This product is manufactured in Shenzhen, China.

**Q4: What certifications does this Schottky Barrier Diode have?**

A4: This product has REACH, RoHS, and ISO certifications.

**Q5: What is the minimum order quantity of this Schottky Barrier Diode and what is the packaging?**

A5: The minimum order quantity of this product is 3000PCS/REEL, and its packaging details are SOD-123FL.



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