

## 150V Schottky Barrier Diode SBD115D1 30μA Reverse Leakage Current

### Basic Information

- Place of Origin: Shenzhen, China
- Brand Name: Socay
- Certification: REACH, RoHS, ISO
- Model Number: SBD115D1
- Minimum Order Quantity: 3000 PCS/REEL
- Packaging Details: per 7" plastic Reel



### Product Specification

- Operating Junction Temperature And Storage Temperature Range: -55 To +150
- Typical Junction Capacitance Rating At VR=0V: 85pF
- Average Rectified Current: 1A
- Reverse Leakage Current At VRRM: 30μA
- Maximum Forward Voltage At IF=1A: 0.85V
- Maximum DC Blocking Voltage: 150V

## Product Description

### Product Description:

The Schottky Barrier Diode is a type of diode that is made up of a metal-semiconductor junction. This junction has a lower forward voltage drop than a regular diode, making it ideal for use in low voltage applications. The Maximum Forward Voltage at  $I_F=1A$  for this diode is 0.85V.

The Schottky Barrier Diode also has a Typical Junction Capacitance Rating at  $V_R=0V$  of 85pF. This rating indicates the amount of charge that can be stored in the diode's junction. This characteristic is important in high-frequency circuits where the diode's capacitance can affect the circuit's performance.

The Schottky Barrier Diode is suitable for use in a wide range of electronic circuits, including power supplies, voltage regulators, and battery chargers. The diode's low forward voltage drop and fast switching speeds make it ideal for use in circuits that require high efficiency and fast response times.

This diode has an Operating Junction Temperature and Storage Temperature Range of -55 To +150 . This temperature range indicates the range of temperatures that the diode can operate in without being damaged. It is important to ensure that the diode is not exposed to temperatures outside of this range.

In summary, the Surface Mount Schottky Barrier Rectifiers are a type of Low Voltage Rectifier Diode used in electronic circuits. This diode operates with a Maximum DC Blocking Voltage of 150V and an Average Rectified Current of 1A. The diode has a Maximum Forward Voltage at  $I_F=1A$  of 0.85V and a Typical Junction Capacitance Rating at  $V_R=0V$  of 85pF. The diode's Operating Junction Temperature and Storage Temperature Range is -55 To +150 , making it suitable for use in a wide range of electronic circuits.

### Features:

Product Name: Schottky Barrier Diode

High forward surge current Semiconductor

Low Voltage Rectifier Diode

Maximum Forward Voltage at  $I_F=1A$ : 0.85V

Maximum RMS Voltage: 105V

Average Rectified Current: 1A

Typical Junction Capacitance Rating at  $V_R=0V$ : 85pF

Reverse Leakage Current at  $V_{RRM}$ : 30 $\mu$ A

Diodes

### Technical Parameters:

Technical Parameter	Value
Reverse Leakage Current at $V_{RRM}$	30 $\mu$ A
Maximum Forward Voltage at $I_F=1A$	0.85V
Maximum Repetitive Peak Reverse Voltage	150V
Typical Junction Capacitance Rating at $V_R=0V$	85pF
Maximum DC Blocking Voltage	150V
Maximum RMS Voltage	105V
Average Rectified Current	1A
Operating Junction Temperature and Storage Temperature Range	-55 To +150

This product is an Electrostatic Diode with a High forward surge current Semiconductor.

### Applications:

The SBD115D1 is a bridge rectifier diode that is suitable for a wide range of applications, including power supplies, battery chargers, and inverters. With a maximum DC blocking voltage of 150V, the diode is capable of handling low voltage circuits efficiently.

The diode has a low reverse leakage current of 30 $\mu$ A and an average rectified current of 1A, making it an ideal choice for low voltage rectification applications. The maximum forward voltage at  $I_F=1A$  is 0.85V, ensuring low power loss during operation.

The typical junction capacitance rating at  $V_R=0V$  is 85pF, which makes the diode suitable for high-frequency applications. The SBD115D1 is a reliable and efficient solution for low voltage rectification applications that require a low forward voltage drop and low power loss.

### FAQ:

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

A: The brand name of this Schottky Barrier Diode is Socay.

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

A: The model number of this Schottky Barrier Diode is SBD115D1.

Q: Where is this Schottky Barrier Diode manufactured?

A: This Schottky Barrier Diode is manufactured in Shenzhen, China.

Q: What certifications does this Schottky Barrier Diode have?

A: This Schottky Barrier Diode has REACH, RoHS, and ISO certifications.

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

A: The minimum order quantity for this Schottky Barrier Diode is 3000PCS/REEL.


Q: How is this Schottky Barrier Diode packaged?

A: This Schottky Barrier Diode is packaged per 7" plastic reel.



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