



## SOCAY SMB Package 100V Schottky Diode SS310B SS34B SS38B 3A Average Forward Current

Our Product Introduction

for more products please visit us on [socaydiode.com](http://socaydiode.com)

### Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: REACH, RoHS, ISO
- Model Number: SS310B
- Minimum Order Quantity: 3000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



### Product Specification

- Component Name: Schottky Diode
- Component Package: DO-214AA/SMB
- Component Max. VRRM: 100V
- Max. VRMS: 70V
- Component Max. VDC: 100V
- Max. VF: 0.8V
- TJ: -65 To +175
- TSTG: -65 To +175
- Highlight: SMB Package Schottky Diode, 100V Schottky Diode, SS310B



### More Images



## Product Description

### SOCAY SMB Package Schottky Diode SS310B SS34B SS38B 3A Average Forward Current

Schottky Diode DATASHEET: [SS32B-SS320B\(SMB\)\\_v93.1.pdf](#)

#### Characteristics of Schottky Diode SS310B:

Schottky Diode SS310B Plastic package has Underwriters Laboratory Flammability Classification 94V-0.

SMD applications is in order to optimize board space.

Schottky Diode SS310B has low power loss, High efficiency.

Green molding compound as per IEC 61249 standard.

High surge capacity is very nice.

Schottky Diode SS310B Lead free in compliance with EU RoHS 2.0.

#### Schottky Diode SS310B Mechanical Data is as Below:

SS310B Case: JEDEC SMB package molded plastic.

SS310B Terminals: Solder plated, solderable per MIL-STD-750, Method 2026.

Approximate Weight: 0.0032 ounces, 0.092 grams.

Schottky Diode Polarity: Color band denotes cathode end.

Its standard packaging: 12mm tape (EIA-481).

#### Electrical and Thermal Characteristics of Schottky Barrier Diode SS32B:

| Parameter                                                          | Symb<br>ol    |                | SS34B          |          | SS38<br>B   | SS310<br>B |     | Unit |
|--------------------------------------------------------------------|---------------|----------------|----------------|----------|-------------|------------|-----|------|
| Schottky Diode Max. VRRM                                           | VRRM          |                | 40             |          | 80          | 100        |     | V    |
| Schottky Diode Max. RMS Voltage                                    | VRMS          |                | 28             |          | 56          | 70         |     | V    |
| Maximum VDC                                                        | VDC           |                | 40             |          | 80          | 100        |     | V    |
| Max. Average IF(AV)                                                | IF(AV)        | 3              |                |          |             |            |     | A    |
| IFSM : 8.3ms Single Half Sinewave Superimposed on Rated Load       | IFSM          | 80             |                |          |             |            |     | A    |
| Schottky Diode Max. VF at 3A (Note 1)                              | VF            | 0.5            |                | 0.7<br>4 | 0.8         |            | 0.9 | V    |
| Max. DC Reverse Current at Rated DC Blocking Voltage               | TJ=25<br>IR   | 0.2            |                | 0.05     |             |            |     | mA   |
|                                                                    | TJ=100        | 20             |                | 10       |             |            |     |      |
| Schottky Diode Typical Thermal Resistance                          | (Note 2) RθJA | 135            |                |          |             |            |     | /W   |
|                                                                    | (Note 3) RθJL | 23             |                |          |             |            |     |      |
| Operating Junction Temperature Range and Storage Temperature Range | TJ,<br>TSTG   | -55 to<br>+125 | -55 to<br>+150 |          | -65 to +175 |            |     |      |

Notes:1.Pulse Test with PW=300μsec, 2% Duty Cycle.

2.Mounted on a FR4 PCB, single-sided copper, mini pad.

3.Mounted on a FR4 PCB, single-sided copper, with 100cm2 copper pad area.

#### Schottky Diode SS310B Rating and Characteristic Curves:

Fig1. SS310B Forward Current Derating Curve:

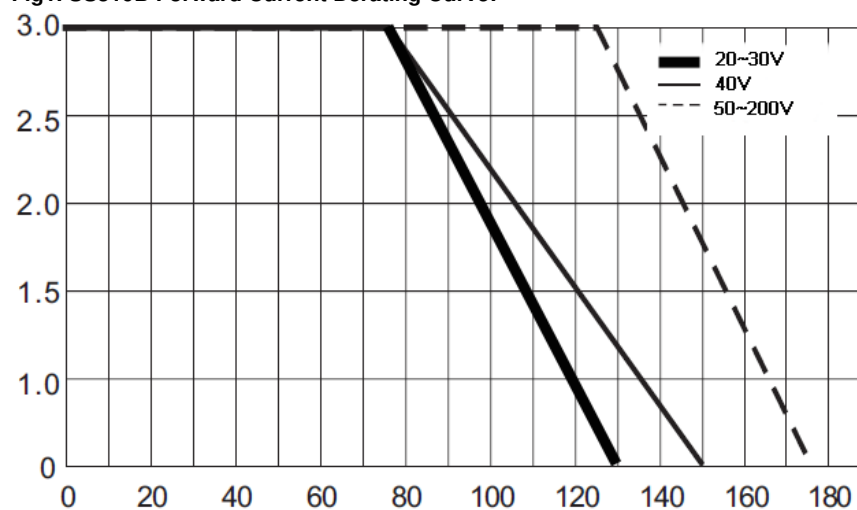
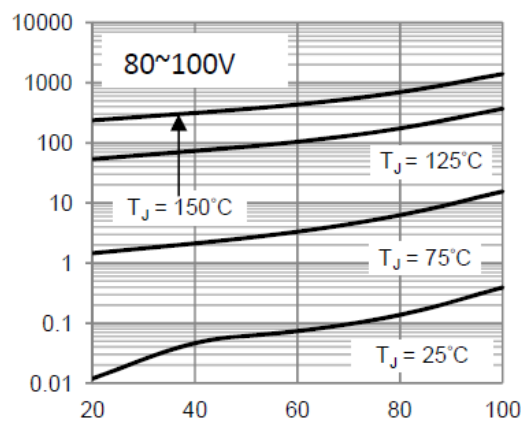
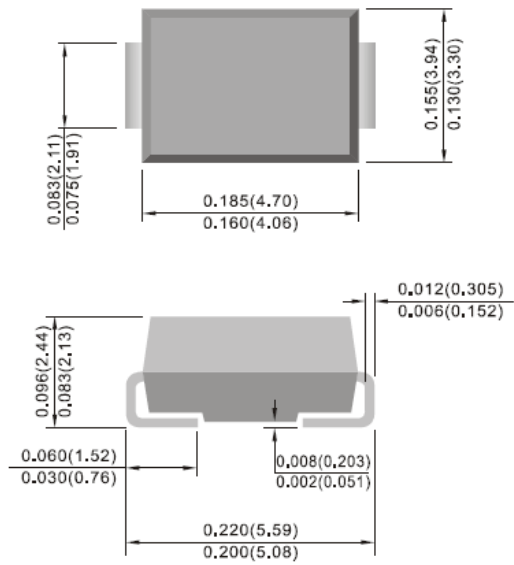


Fig2. Typical Reverse Characteristics:



**SMB Package Dimensions of Schottky Diode SS310B:**  
(Unit:inch(mm))



**Packaging Information:**

| Part Number | Component Package | Quantity | Packaging Option     |
|-------------|-------------------|----------|----------------------|
| SS310B      | SMB/DO-214AA      | 3000 PCS | per 13" plastic Reel |
|             |                   | 800 PCS  | per 7" plastic Reel  |

