



VRRM 40V SS54B SS510B 100VRRM Schottky Barrier Rectifiers 0.55V Forward Voltage

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: REACH, RoHS, ISO
- Model Number: SS54B
- Minimum Order Quantity: 3000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



Product Specification

- Rectifiers Name: Schottky Barrier Rectifiers
- Rectifiers Package: DO-214AA/SMB
- Rectifiers Max. VRRM: 40V
- Maximum VRMS: 28V
- Component Max. VDC: 40V
- Max. VF At 5A: 0.55V
- IR At 25 : 1.0mA
- IR At 100 : 50mA
- Highlight: SS54B, SS510B Schottky Barrier Rectifiers



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Product Description

VRRM 40V SS54B Schottky Barrier Rectifiers 0.55V Forward Voltage Schottky Diode

Schottky Barrier Rectifiers DATASHEET: [SS52B~SS520B\(SMB\)_v2205.1.pdf](#)

VRRM 40V SS54B Schottky Characteristics:

Metal silicon junction, majority carrier conduction

For surface mounted applications

Low power loss, high efficiency

High forward surge current capability

SS54B is for use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

VRRM 40V SS54B Schottky Mechanical Data is as Follows:

SS54B Case: SMB

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.1g / 0.0034oz

Electrical and Thermal Characteristics of Schottky Barrier Rectifiers SS52B:

Parameter	Symbol	SS52B	SS54B	SS56B	SS58B	SS510B	SS512B	SS515B	SS520B	Unit	
Maximum VRRM Value	VRRM	20	40	60	80	100	120	150	200	V	
Schottky Barrier Rectifiers Max. RMS Voltage	VRMS	14	28	42	56	70	84	105	140	V	
Max. DC Blocking Voltage	VDC	20	40	60	80	100	120	150	200	V	
Max. Average Forward Current	IF(AV)	5.0								A	
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	100								A	
Schottky Barrier Rectifiers Max VF at 5 A	VF	0.55		0.70		0.85				V	
Maximum IR at Rated DC Reverse Voltage	Ta=25	IR	1.0		0.3					mA	
			50		25						
	Ta=100										
Typ. Junction Capacitance(1)	Cj	500		300						pF	
Typ. Thermal Resistance(2)	RθJA	50								/W	
Operating Junction Temperature Range	TJ	-55 to +150									
Storage Temperature Range	TSTG	-55 to +150									
Notes:1.Measured at 1MHz and applied reverse voltage of 4 V D.C.. 2. P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.											

Schottky Barrier Rectifiers SS52B Rating and Characteristic Curves:

Fig1. SS52B Forward Current Derating Curve:

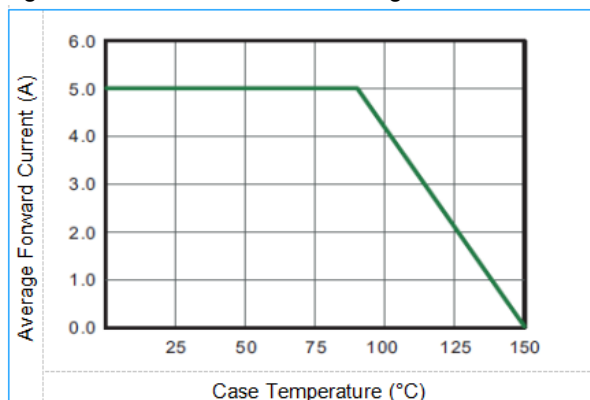
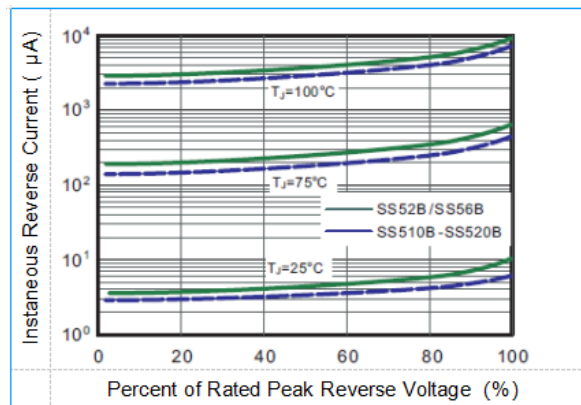
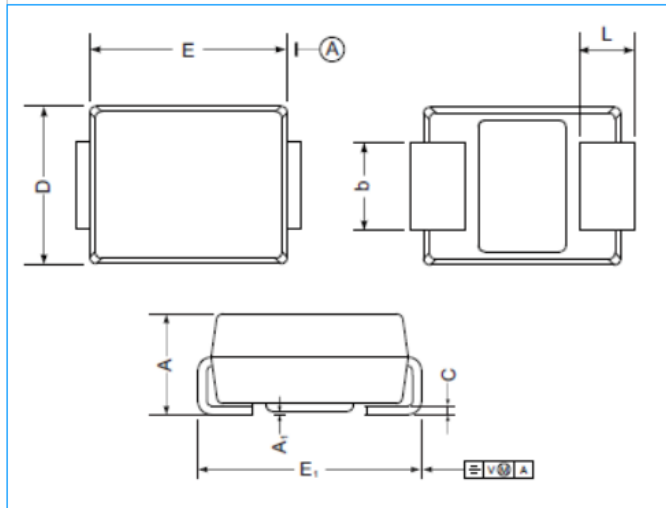


Fig2. SS52B Typical Reverse Characteristics:



Schottky Barrier Rectifiers SS52B SMB Package Dimensions:
Plastic surface mounted package; 2 leads



Symbol	mm		mil	
	min.	max.	min.	max.
A	2.13	2.46	84	97
E	4.06	4.70	160	185
D	3.3	3.94	130	155
E1	5.08	5.59	200	220
A1	0.05	0.20	2.0	7.9
L	0.8	1.5	32	59
C	0.152	0.305	6	12
b	1.9	2.2	75	87

Packaging Information:

Part Number	Component Package	Quantity
SS52B~SS520B	SMB	3000 PCS

