

# SSCSBAV21D2

# Fast Switching Diode

## • Features

- ♦ Fast Switching Speed
- ♦ Ultra-Small Surface Mount Package
- ♦ Low Reverse Leakage Current
- ♦ Ideal for Battery Powered Portable Applications
- ♦ RoHS Compliant/Green EMC
- ♦ Moisture Sensitivity: Level 3 per J-STD-020



## • PIN configuration



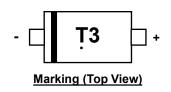




Circuit Diagram



- ♦ High speed switching for detection
- ♦ Battery Powered Portable
- ♦ Mobile phones, laptops and other electronic devices



### • Absolute maximum rating @T<sub>A</sub>=25°C

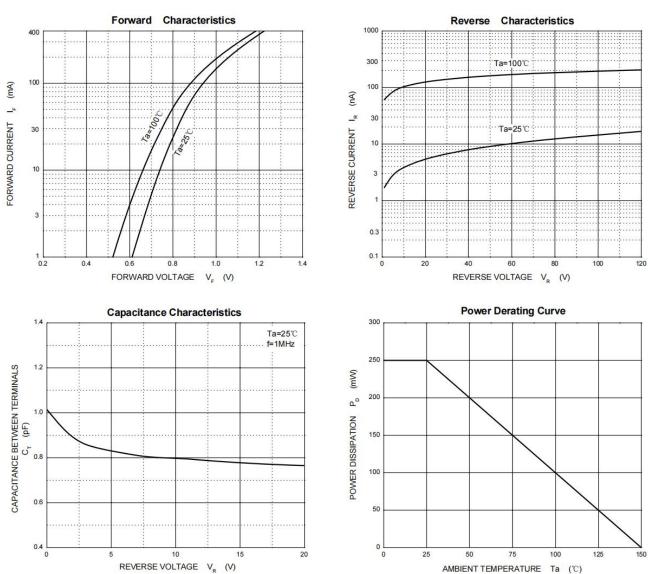
Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	250 V	
Working Peak Reverse Voltage	V <sub>RWM</sub>	250	V
Average Rectified Forward Current	lo	200	mA
Non-Repetitive Peak Forward Surge Current@ t=8.3ms	IFSM	1.7	А
Power Dissipation	PD	250	mW
Thermal Resistance from Junction to Ambient	R <sub>0JA</sub>	500	°C/W
Operating Temperature	TJ	150	°C
Storage Temperature	T <sub>STG</sub>	-65 ~ +150	°C



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## ● Electrical Characteristics @T<sub>A</sub>=25°C

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> = 100μΑ	250			V
Forward Voltage V <sub>F</sub>	N/-	I <sub>F</sub> = 100mA			1.00	V
	I <sub>F</sub> = 200mA			1.25	v	
Reverse Current	IR	V <sub>R</sub> = 200V			0.1	uA
Total Capacitance	Ст	V <sub>R</sub> = 0,f = 1MHz			5	pF
Reverse Recovery Time	+	I <sub>F</sub> = I <sub>R</sub> = 30mA,			50	20
	t <sub>rr</sub>	$I_{rr} = 0.1 \text{ x } I_{R}, R_{L} = 100\Omega$		50	ns	



• Typical Performance Characteristics



# Package Information

# SSCSBAV21D2

#### Ordering Information

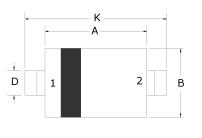
Device	Package	Marking	Qty per Reel	Reel Size
SSCSBAV21D2	SOD-323	Ţ3	3000	7 Inch

#### **Mechanical Data**

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Case: SOD-323

Case Material: Molded Plastic. UL Flammability

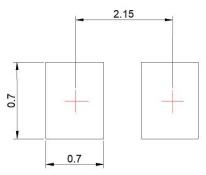




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Dim	Millimeters		
JIM	Min	Мах	
Α	1.60	1.80	
В	1.2	1.40	
С	0.80	0.90	
D	0.25	0.35	
E	0.15REF		
н	0	0.10	
J	0.08	0.15	
к	2.50	2.70	

#### Recommended Pad outline (Unit: mm)





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