

SSCBAV21D1

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

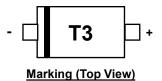


SOD-123



Applications

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



Absolute maximum rating @T_A=25℃

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	250	V
Repetitive Peak Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V_{RWM}	250	V
Reverse Voltage (DC)	V _R		
Average Rectified Forward Current	lo	200	mA
Non-Repetitive Peak Forward Surge Current@ t=8.3ms	I _{FSM}	2	Α
Power Dissipation	PD	500	mW
Thermal Resistance from Junction to Ambient	R _{eJA}	500	°C/W
Operating Temperature	TJ	-55 ~ +150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C

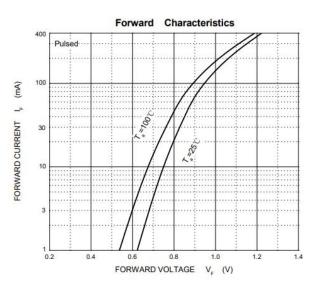


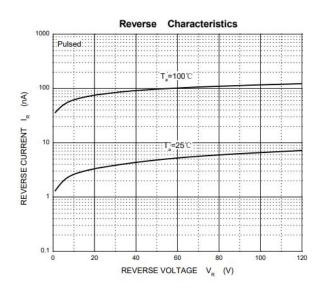
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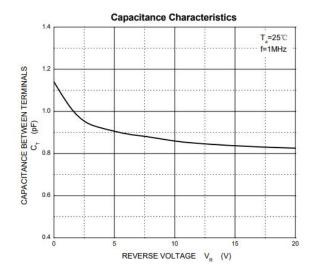
• Electrical Characteristics @T_A=25℃

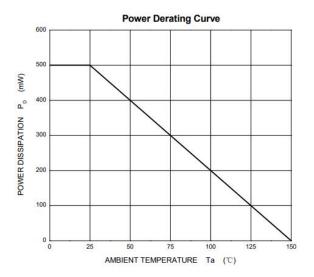
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Reverse Voltage	V _{R1}	I _R = 100μA	250			V
Famurand Valtage		I _F = 100mA			1	V
Forward Voltage	V _F	I _F = 200mA			1.25	V
Reverse Current	I _R	V _R = 200V			0.1	uA
Total Capacitance	Ст	V _R = 0,f = 1MHz			5	pF
Reverse Recovery Time	+	$I_F = I_R = 30 \text{mA},$			50	ns
	t _{rr}	$I_{rr} = 0.1 \times I_{R}, R_{L} = 100\Omega$				

• Typical Performance Characteristics











Package Information

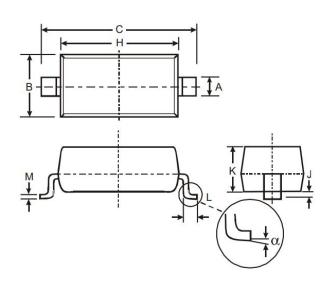
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCSBAV21D1	SOD-123	Т3	3000	7 Inch

Mechanical Data

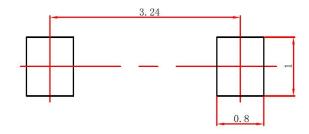
Case: SOD-123

Case Material: Molded Plastic. UL Flammability



DIM	Millimeters		
ואוט	Min	Max	
Α	0.45	0.65	
В	1.50	1.70	
С	3.55	3.85	
Н	2.6	2.8	
J	0.00	0.10	
K	1.05	1.15	
L	0.25	0.45	
М	0.08	0.15	
α	0	8°	

Recommended Pad outline (Unit: mm)



SSCSBAV21D1



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