



SSCSBAS321D2

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-323



Circuit Diagram

● Applications

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



Marking (Top View)

● Absolute maximum rating @T_A=25°C

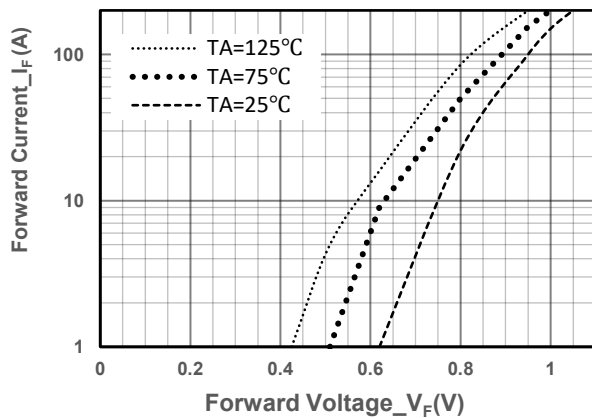
Parameter	Symbol	Value	Unit
Reverse Voltage	V _R	250	V
Peak Repetitive Reverse Voltage	V _{RRM}		
Average Rectified Forward Current	I _o	250	mA
Non-Repetitive Peak Forward Surge Current@ tp= 10ms	I _{FSM}	2	A
Power Dissipation	P _D	200	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	625	°C/W
Operating Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C



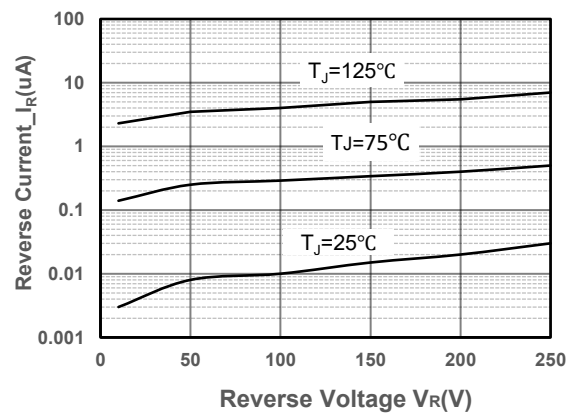
Electrical Characteristics @T_A=25°C

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	V _R	I _R = 100μA	250			V
Forward Voltage	V _F	I _F = 100mA		0.95	1.0	V
		I _F = 200mA		1.05	1.25	
Reverse Current	I _R	V _R = 200V			0.1	μA
Total Capacitance	C _T	V _R = 0, f = 1MHz			2.0	pF
Reverse Recovery Time	t _{rr}	I _F = I _R = 10mA, R _L = 100Ω; IRR=0.1x I _R			50	ns

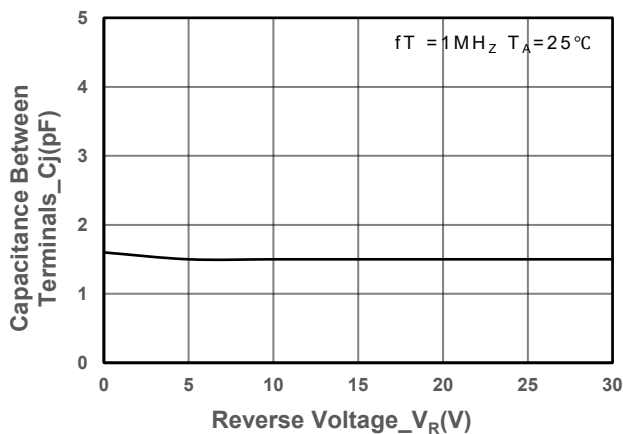
Typical Performance Characteristics



Forward Voltage vs. Forward Current



Reverse Current vs. Reverse Voltage



Reverse Voltage vs. Diode Capacitance



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● Package Information

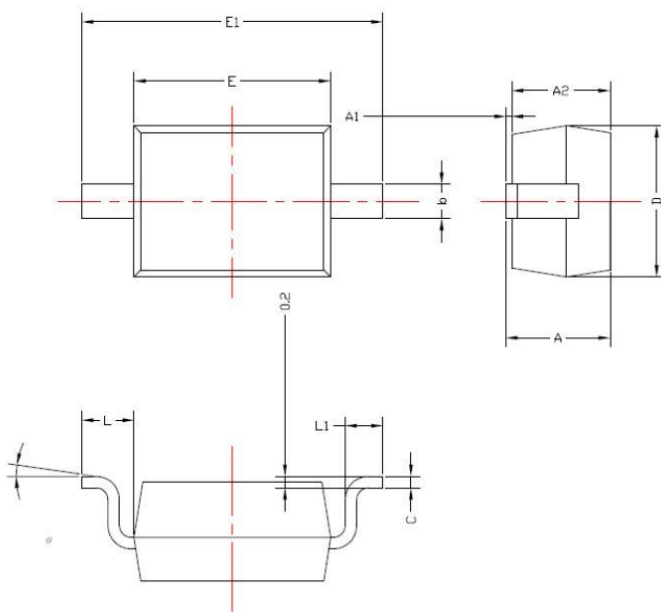
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCSBAS321D2	SOD-323	A7	3000	7 Inch

Mechanical Data

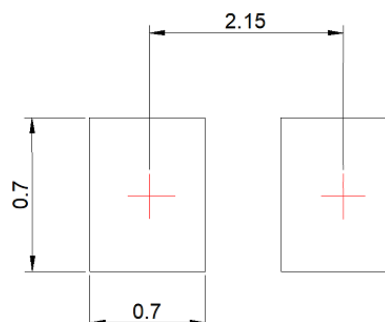
Case: SOD-323

Case Material: Molded Plastic. UL Flammability



Dim	Millimeters	
	Min	Max
A	0.75	1.05
A1	0.00	0.10
A2	0.75	0.95
b	0.20	0.4
c	0.08	0.15
D	1.20	1.40
E	1.6	1.8
E1	2.45	2.75
L	0.475REF	
L1	0.20	0.4
θ	0°	8°

Recommended Pad outline (Unit: mm)





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