



SSCSBAV20D2

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

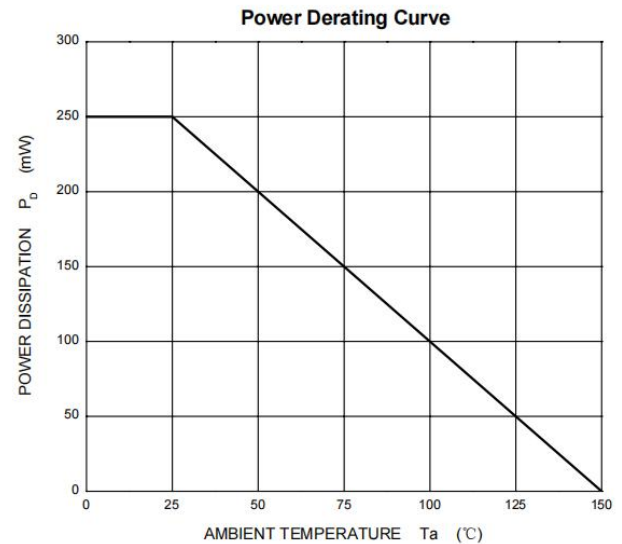
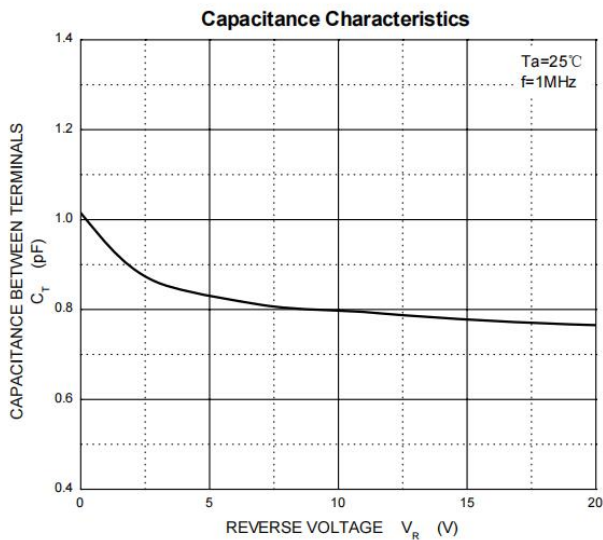
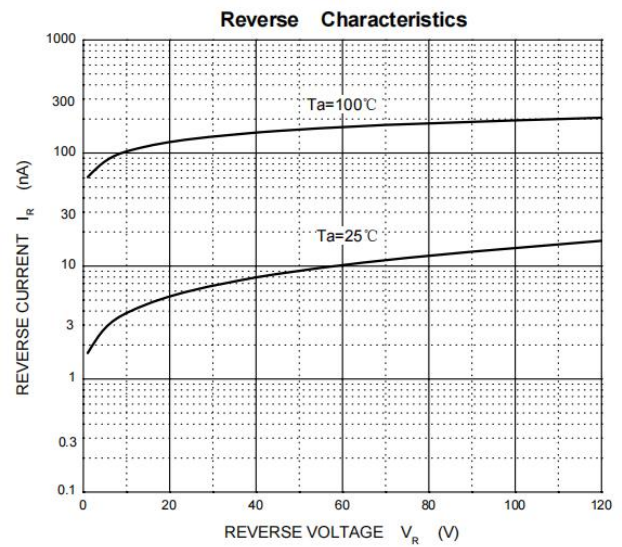
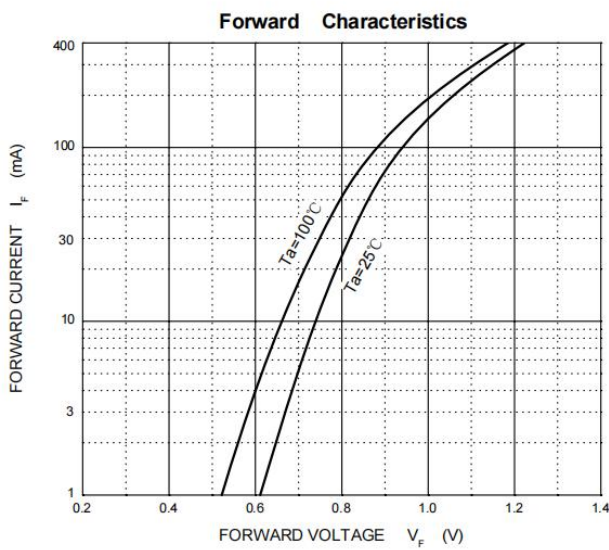
Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	200	V
Repetitive Peak Reverse Voltage	V _{RRM}	150	V
Working Peak Reverse Voltage	V _{RWM}		
RMS Reverse Voltage	V _{R(RMS)}	106	V
Average Rectified Forward Current	I _O	200	mA
Non-Repetitive Peak Forward Surge Current@ t=8.3ms	I _{FSM}	2	A
Power Dissipation	P _D	250	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	500	°C/W
Operating Temperature	T _J	-55 ~ +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 _{R1}	I _R = 100μA	150			V
Forward Voltage	V _F	I _F = 100mA			1	V
		I _F = 200mA			1.25	
Reverse Current	I _R	V _R = 200V			0.1	μA
Total Capacitance	C _T	V _R = 0, f = 1MHz			5	pF
Reverse Recovery Time	t _{rr}	I _F = I _R = 30mA, I _{rr} = 0.1 x I _R , R _L = 100Ω			50	ns

Typical Performance Characteristics





● Package Information

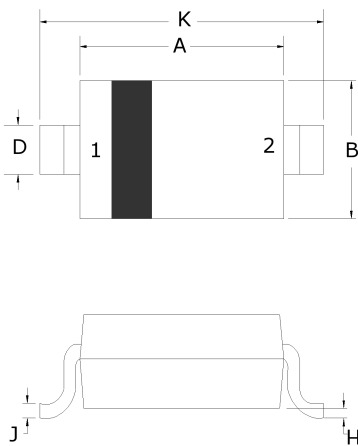
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCSBAV20D2	SOD-323	T2	3000	7 Inch

Mechanical Data

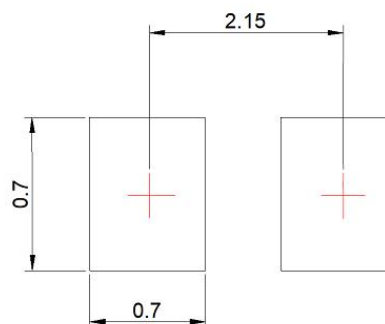
Case: SOD-323

Case Material: Molded Plastic. UL Flammability



Dim	Millimeters	
	Min	Max
A	1.60	1.80
B	1.2	1.40
C	0.80	0.90
D	0.25	0.35
E	0.15REF	
H	0	0.10
J	0.08	0.15
K	2.50	2.70

Recommended Pad outline (Unit: mm)





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