



SSCSBAT54D2

Schottky Barrier Diode

● Features

- ✧ Low Forward Voltage Drop
- ✧ Guard Ring Construction for Transient Protection
- ✧ High Conductance
- ✧ Also Available in Lead Free Version

● PIN configuration



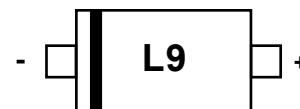
SOD-323

● Applications

- ✧ Low Voltage Rectification
- ✧ High-Efficiency DC-DC Conversion
- ✧ Switch Mode Power Supply
- ✧ Inverse Polarity Protection



Circuit Diagram



Marking

● Absolute maximum rating @T_A=25°C

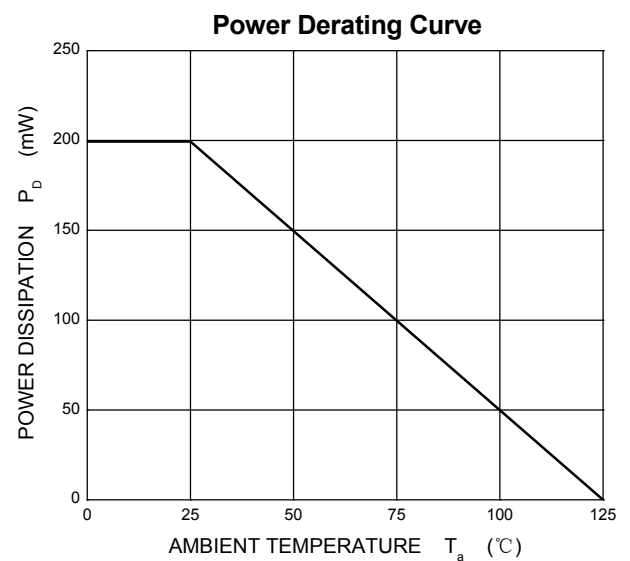
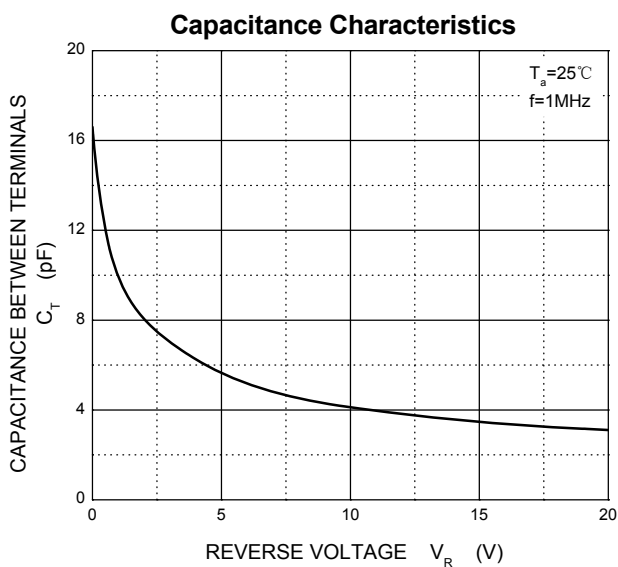
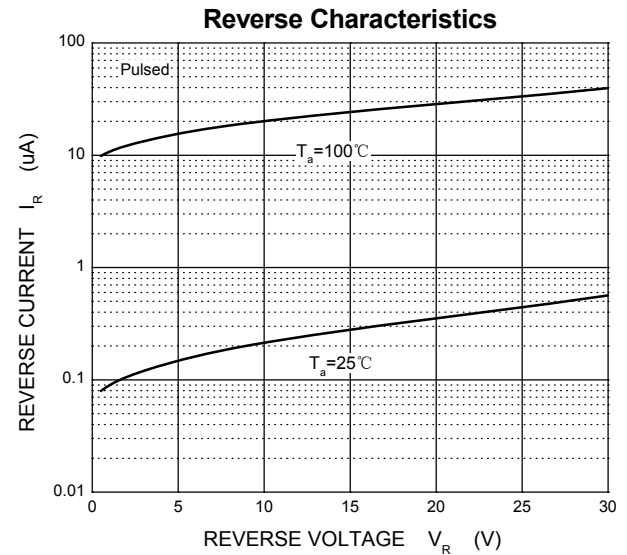
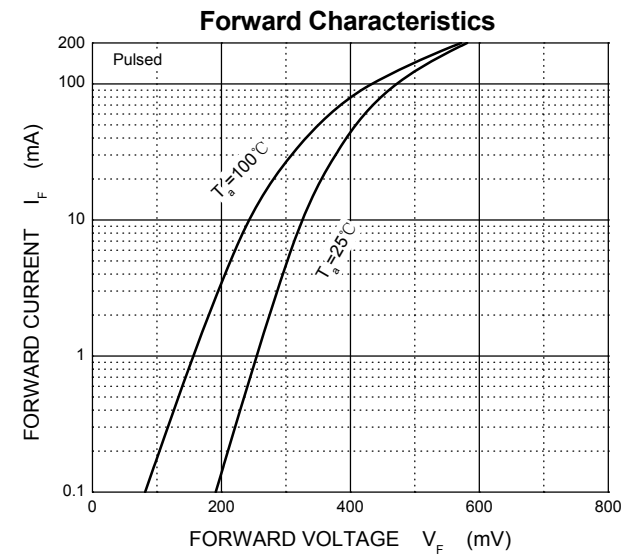
Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}	30	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS reverse voltage reverse voltage (DC)	V _{R(RMS)}	21	V
Maximum average forward rectified current	I _{FM}	300	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	600	mA
Power Dissipation	P _D	200	mW
Typical Thermal Resistance	R _{θJA}	500	°C/W
Operating Temperature	T _J	-40 ~ +125	°C
Storage Temperature	T _{STG}	-50 ~ +150	°C



Electrical Characteristics @T_A=25°C

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	V _R	I _R = 100μA	30			V
Forward Voltage	V _F	I _F = 0.1mA			0.24	V
		I _F = 1.0mA			0.32	
		I _F = 10mA			0.40	
		I _F = 30mA			0.50	
		I _F = 100mA			1.00	
Reverse Current	I _R	V _R = 25V			2.0	μA
Junction Capacitance	C _J	V _R = 1V, f = 1MHz			10	pF

Typical Performance Characteristics





SSCSBAT54D2

● Package Information

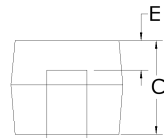
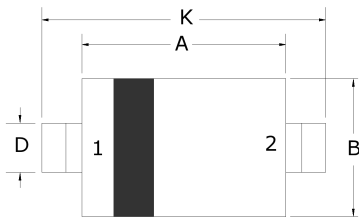
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCSBAT54D2	SOD-323	L9	3000	7 Inch

Mechanical Data

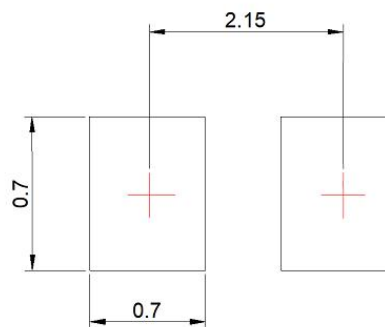
Case: SOD-323

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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