



SSCSBAT54D2

Schottky Barrier Diode

- **Features**

- ◇ Extremely fast switching speed
- ◇ Low forward voltage
- ◇ Very small conduction losses

- **Applications**

- ◇ Ultra high-speed switching
- ◇ Voltage clamping
- ◇ Protection circuits
- ◇ Blocking diodes

- **PIN configuration**



SOD-323



Circuit Diagram



Marking

- **Absolute maximum rating @T_A=25°C**

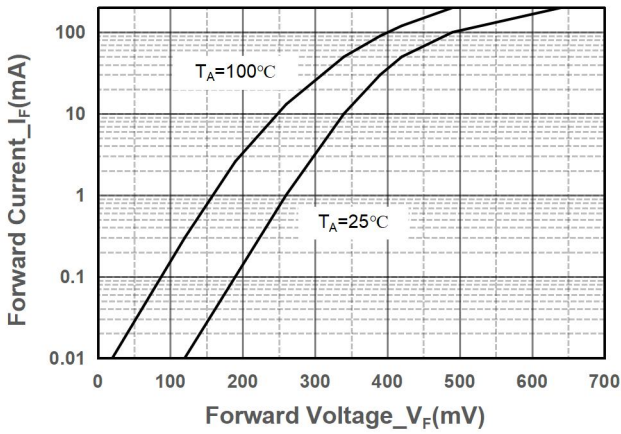
Parameter	Symbol	Value	Unit
Reverse Voltage(DC)	V _R	30	V
Average Rectified Forward Current	I _{FM}	300	mA
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I _{FSM}	600	mA
Power Dissipation	P _D	200	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	500	°C/W
Junction Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C



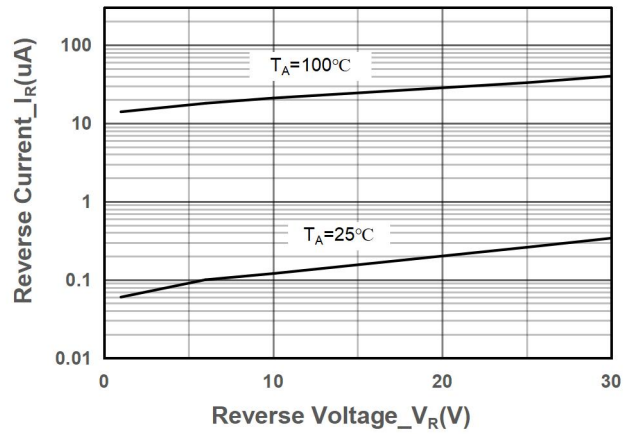
● Electrical Characteristics @T_A=25°C

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	V _R	I _R = 100uA	30			V
Forward Voltage	V _F	I _F = 0.1mA			0.24	V
		I _F = 1mA			0.32	V
		I _F = 10mA			0.40	V
		I _F = 30mA			0.50	V
		I _F = 100mA			1.00	V
Reverse Current	I _R	V _R = 25V			2.0	uA
Junction Capacitance	C _J	V _R =1V,f=1MHz			10	pF
Reverse recovery time	t _{rr}	I _F =I _R =10mA,R _L =100Ω,I _{RR} =0.1I _R			5.0	ns

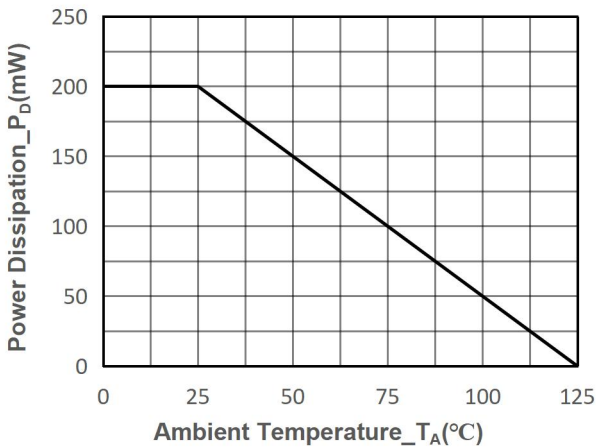
● Typical Performance Characteristics



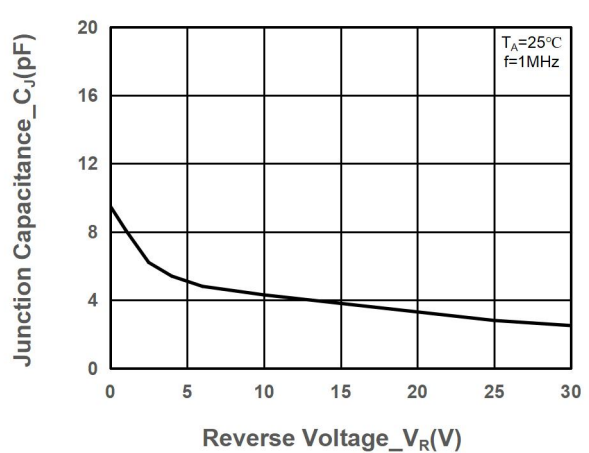
Forward Current vs. Forward Voltage



Reverse Current vs. Reverse Voltage



Power Derating vs. Ambient Temperature



Junction Capacitance vs. Reverse Voltage



● Package Information

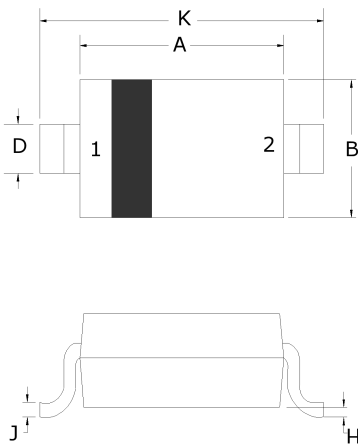
Ordering Information

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

Mechanical Data

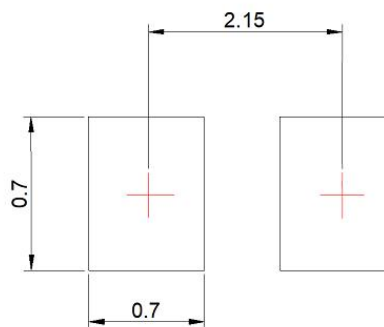
Case: SOD-323

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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