



SSC SSD103AD2

Schottky Barrier Diode

● Features

- ✧ Low Forward Voltage Drop (VF)
- ✧ Better Efficiency and Cooler Operation
- ✧ Guard Ring Construction for Transient Protection

● PIN configuration



SOD-323

● Applications

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



Circuit Diagram



Marking(Top View)

● Absolute maximum rating @T_A=25°C

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}	40	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{RMS}	28	V
Forward Continuous Current	I _{FM}	350	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2	A
Power Dissipation	P _D	200	mW
Operating Temperature	T _J	-40 ~ +125	°C
Storage Temperature	T _{STG}	-50 ~ +150	°C

● Electrical Characteristics @T_A=25°C

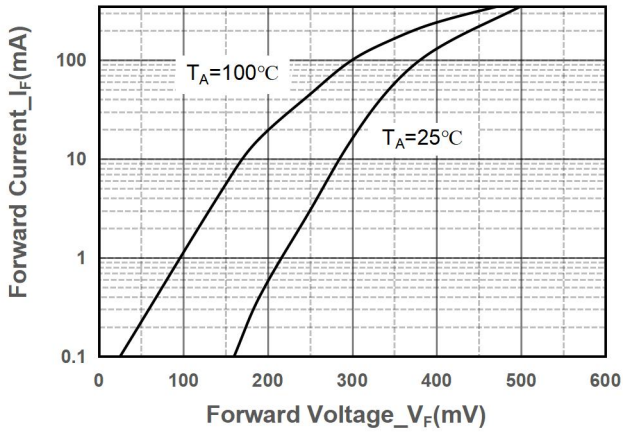
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	V _R	I _R = 10μA	40			V
Forward Voltage	V _F	I _F = 20mA			0.37	V
		I _F = 200mA			0.6	
Reverse Current	I _R	V _R = 30V			5	uA



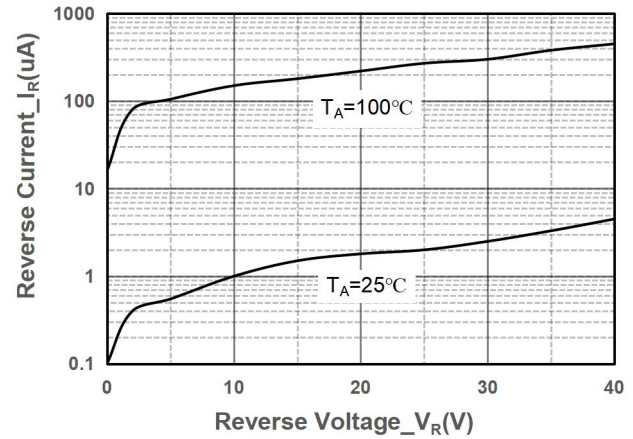
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Junction Capacitance	C_J	$V_R=0V, f=1MHz$			50	pF
Reverse recovery time	t_{rr}	$I_R=I_F=200mA, R_L=100\Omega, I_{rr}=0.1I_R$		10		ns

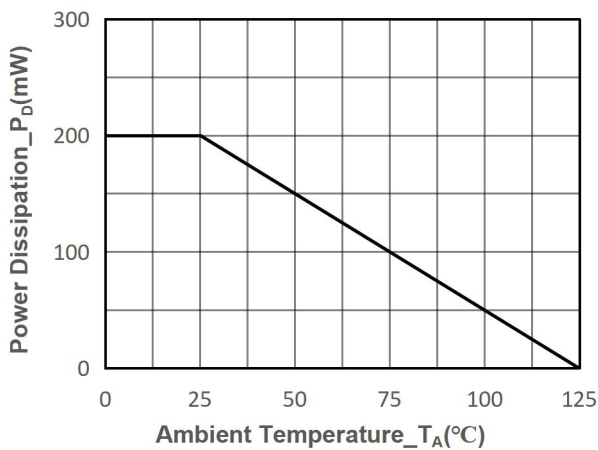
● Typical Performance Characteristics



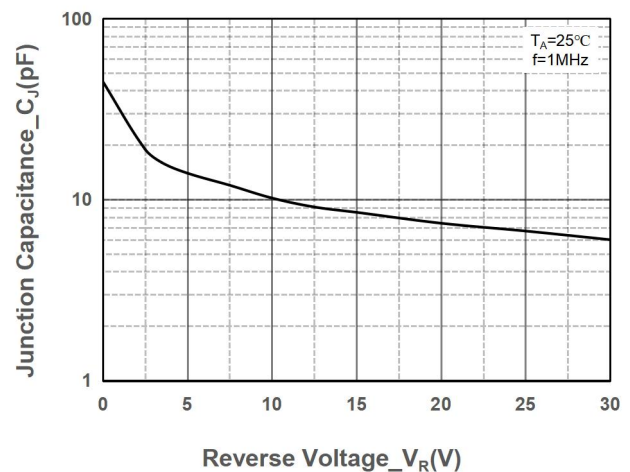
Forward Voltage vs. Forward Current



Reverse Voltage vs. Reverse Current



Power Derating vs. Ambient Temperature



Junction Capacitance vs. Reverse Voltage



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● Package Information

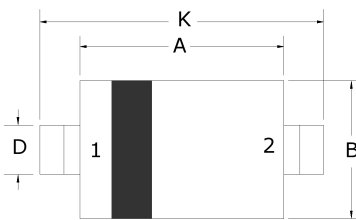
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSC SSD103AD2	SOD-323	S4	3000	7 Inch

Mechanical Data

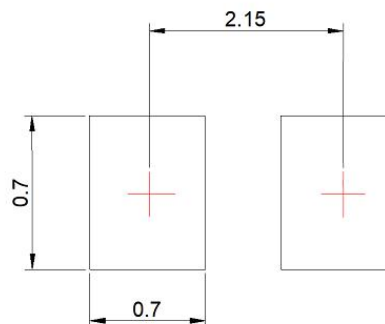
Case: SOD-323

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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