



## SSCS551V40D2

### 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<sub>A</sub>=25°C

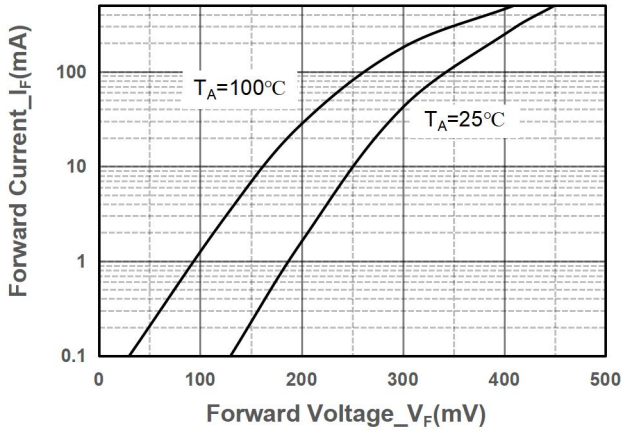
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V <sub>RM</sub>	40	V
Average Rectified Output Current	I <sub>O</sub>	0.5	A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	2	A
Power Dissipation	P <sub>D</sub>	200	mW
Typical thermal resistance	R <sub>θJA</sub>	500	°C/W
Operating Temperature	T <sub>J</sub>	-40 ~ +125	°C
Storage Temperature	T <sub>STG</sub>	-55~ +150	°C

#### ● Electrical Characteristics @T<sub>A</sub>=25°C

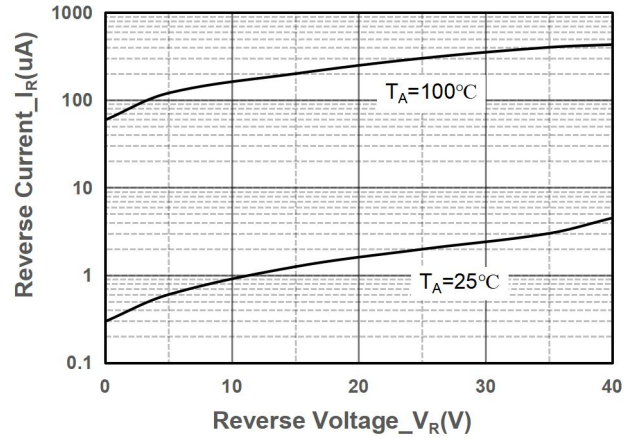
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse voltage	V(BR)	I <sub>R</sub> =0.1mA	40			V
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 500mA			0.47	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =40V			100	μA



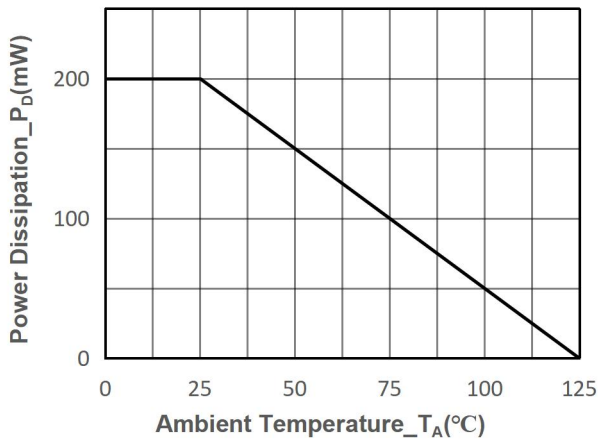
- Typical Performance Characteristics



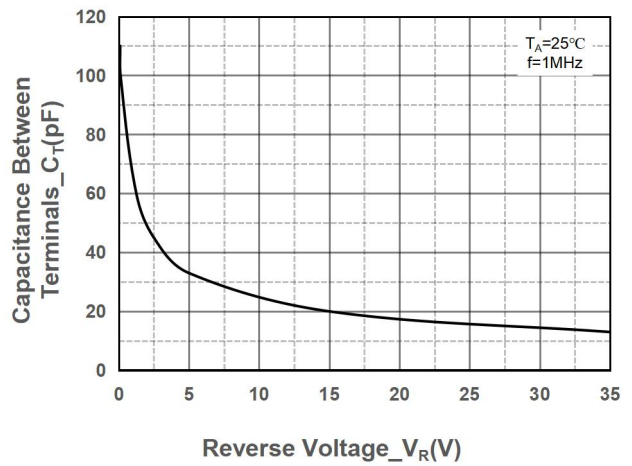
Forward Voltage vs. Forward Current



Reverse Voltage vs. Reverse Current



Power Derating vs. Ambient Temperature



Capacitance Characteristics vs. Reverse



## ● Package Information

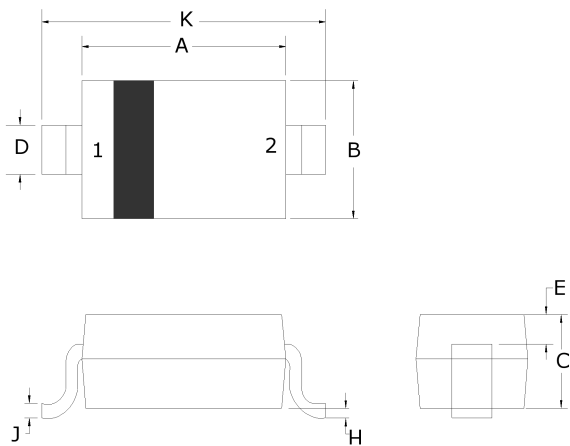
### Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCS551V40D2	SOD-323	D4	3000	7 Inch

### Mechanical Data

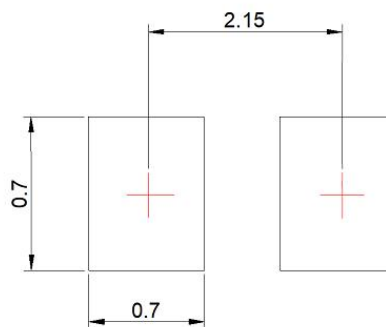
Case: SOD-323

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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