



## SSCS520S40D3 Schottky Barrier Diode

### ● Features

- ✧ Small surface mounting type
- ✧ Low reverse current and low forward voltage
- ✧ High reliability

### ● PIN configuration



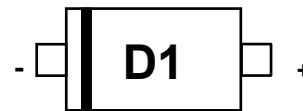
**SOD-523**



**Circuit Diagram**

### ● Applications

- ✧ High speed switching for detection
- ✧ For portable equipment:(i.e. Mobile phone,MP3, MD,CD-ROM,DVD-ROM, Note book PC, etc.)



**Marking(Top View)**

### ● Absolute maximum rating @T<sub>A</sub>=25°C

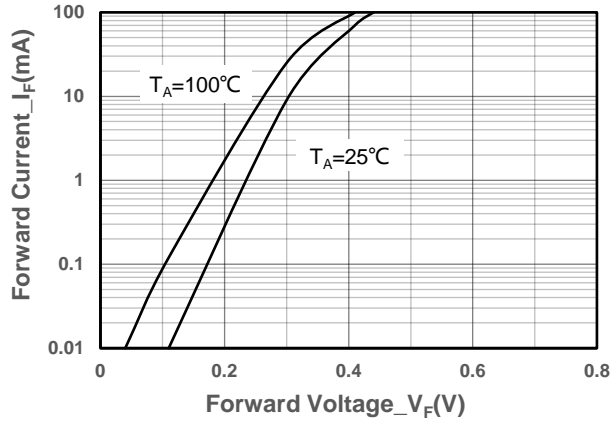
Parameter	Symbol	Value	Unit
Reverse Voltage(DC)	V <sub>R</sub>	40	V
Average Rectified Forward Current	I <sub>o</sub>	200	mA
Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	600	mA
Operating Temperature	T <sub>J</sub>	150	°C
Storage Temperature	T <sub>STG</sub>	-40 ~ +150	°C

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

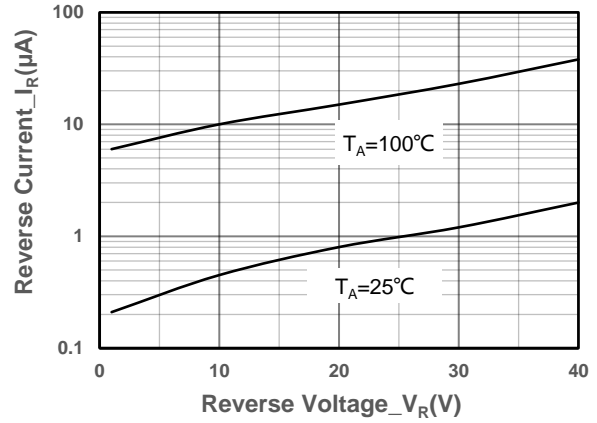
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> = 100μA	40			V
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 1mA			0.33	V
		I <sub>F</sub> = 10mA		0.4	0.39	
		I <sub>F</sub> = 100mA			0.56	
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 25V			1	μA
		V <sub>R</sub> = 30V			1.5	



## ● Typical Performance Characteristics



Forward Voltage vs. Forward Current



Reverse Voltage vs. Reverse Current

## ● Package Information

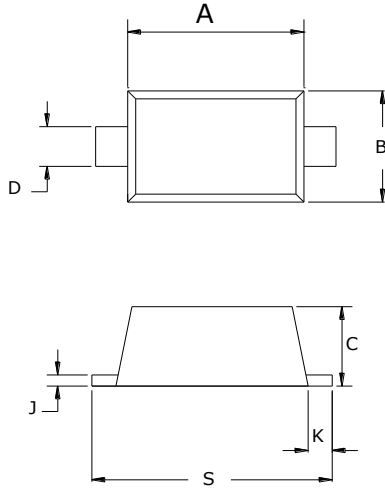
### Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCS520S40D3	SOD-523	D1	3000	7 Inch

### Mechanical Data

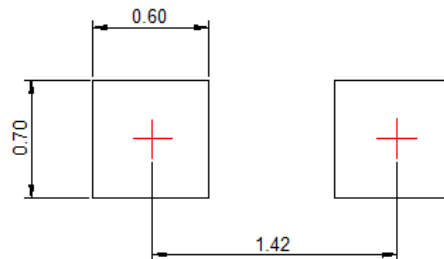
Case: SOD-523

Case Material: Molded Plastic. UL Flammability



DIM	Millimeters	
	Min	Max
A	1.10	1.30
B	0.75	0.85
C	0.51	0.70
D	0.25	0.35
J	0.08	0.15
K	0.15	0.25
S	1.50	1.70

### Recommended Pad outline (Unit:mm)





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