



SSCS520S40D3

Schottky Barrier Diode

● Features

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

● PIN configuration



SOD-523

● Applications

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



Circuit Diagram



Marking (Top View)

● Absolute maximum rating @T_A=25°C

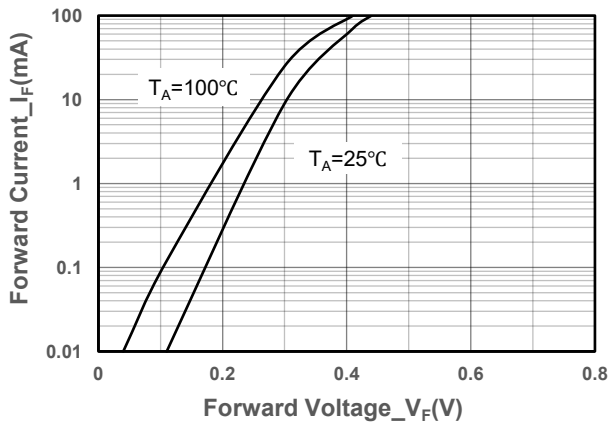
Parameter	Symbol	Value	Unit
Reverse Voltage (DC)	V _R	40	V
Average Rectified Forward Current	I _O	200	mA
Peak Forward Surge Current	I _{FSM}	600	A
Operating Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-40 ~ +125	°C

● Electrical Characteristics @T_A=25°C

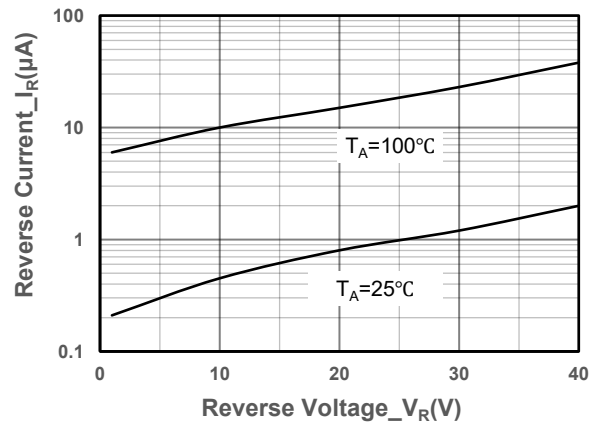
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	V _R	I _R = 100μA	40			V
Forward Voltage	V _F	I _F = 1mA			0.33	V
		I _F = 10mA		0.4	0.46	
		I _F = 200mA			0.6	
Reverse Current	I _R	V _R = 25V			1	μA
		V _R = 30V			1.5	



- Typical Performance Characteristics



Forward Voltage vs. Forward Current



Reverse Voltage vs. Reverse Current



● Package Information

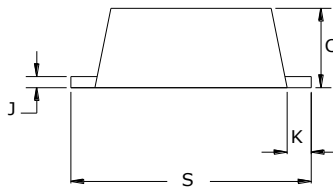
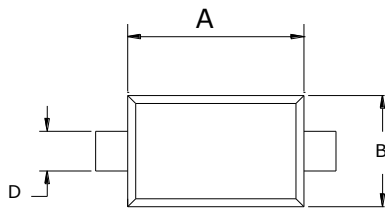
Ordering Information

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

Mechanical Data

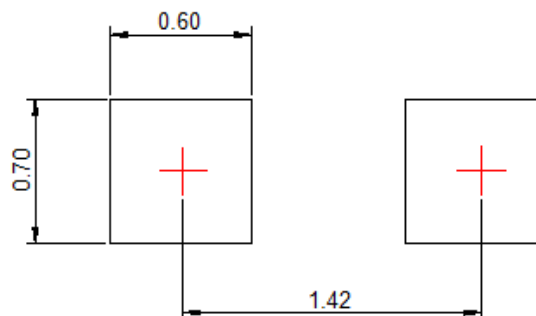
Case: SOD-523

Case Material: Molded Plastic. UL Flammability

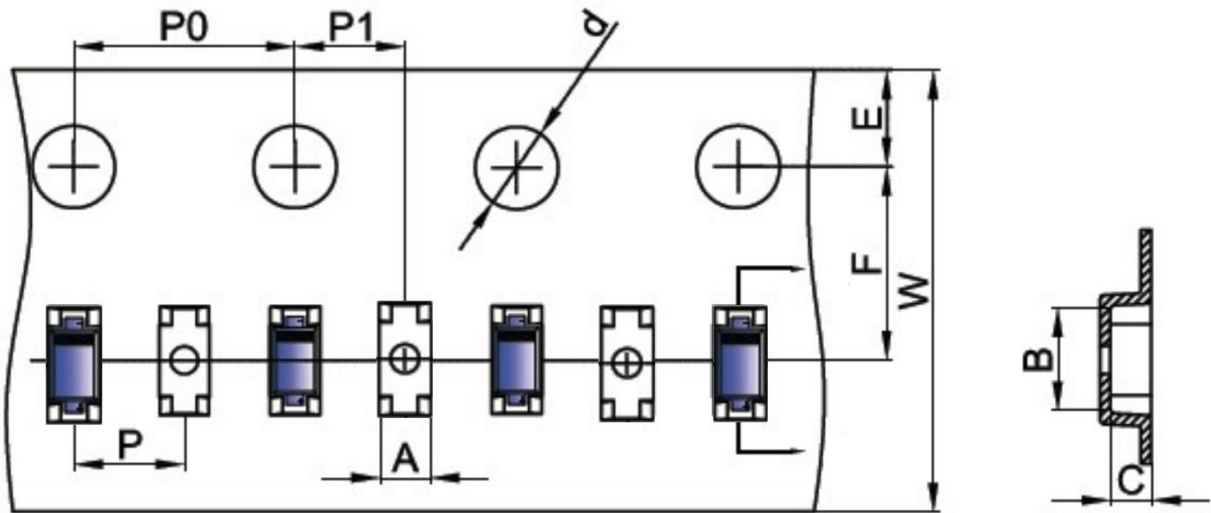


DIM	Millimeters	
	Min	Max
A	1.10	1.30
B	0.75	0.85
C	0.51	0.70
D	0.25	0.35
J	0.08	0.15
K	0.15	0.25
S	1.50	1.70

Recommended Pad outline

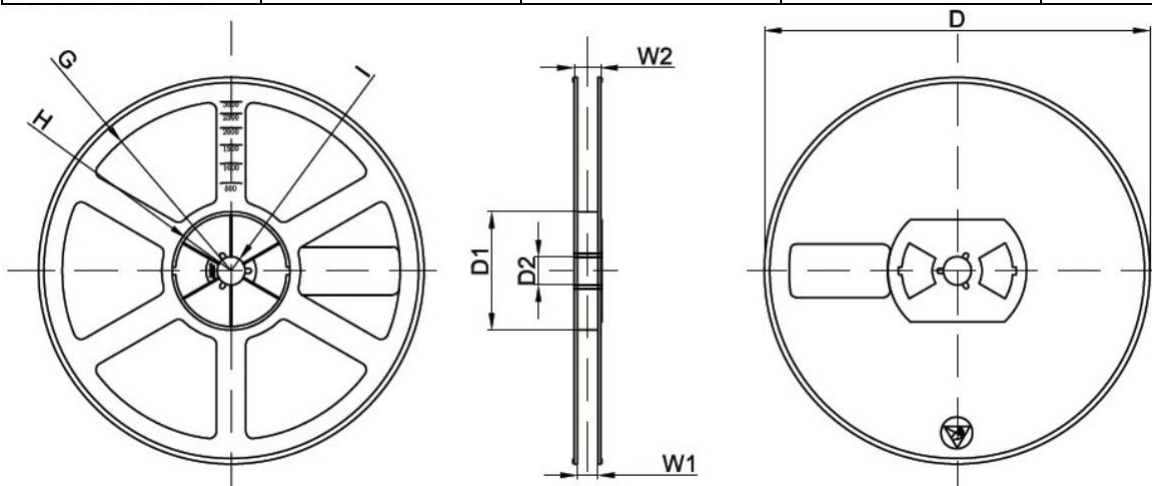


● Type and Reel Information-SOD-523



Unit (mm)

A	B	C	d	E
0.9 ± 0.05	1.94 ± 0.05	0.73 ± 0.05	$\Phi 1.50 \pm 0.10$	1.75 ± 0.10
F	P0	P	P1	W
3.50 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	2.00 ± 0.10	8.00 ± 0.10 $+0.3$



D	D1	D2	G	H	I	W1	W2
$\Phi 178 \pm 2$	54.4 ± 1	13 ± 1	$R78 \pm 1$	$R25.6 \pm 1$	$R6.5 \pm 1$	9.50 ± 1	12.30 ± 1



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