



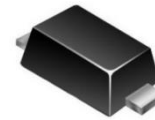
SSCS521S40D3

Schottky Barrier Diode

● Features

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

● PIN configuration



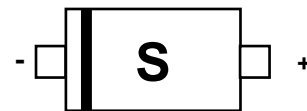
SOD-523

● 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

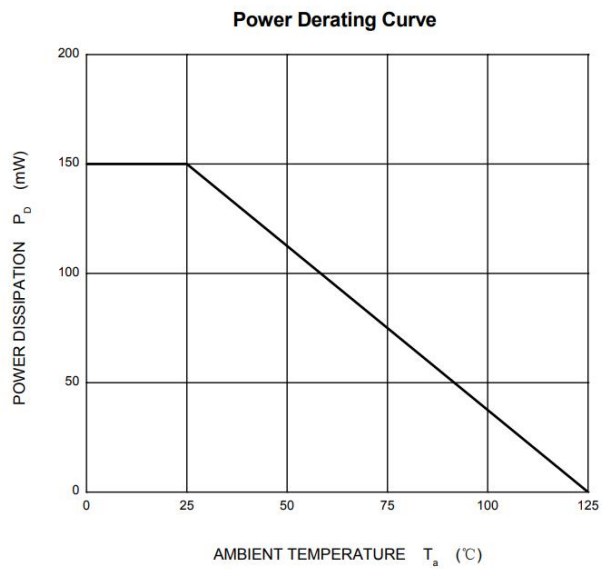
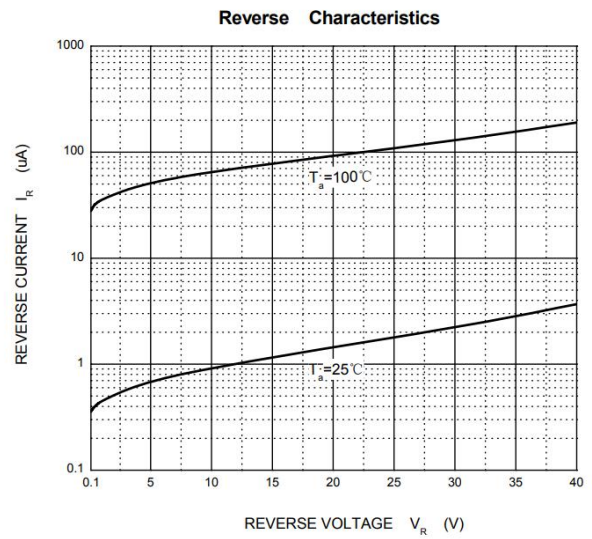
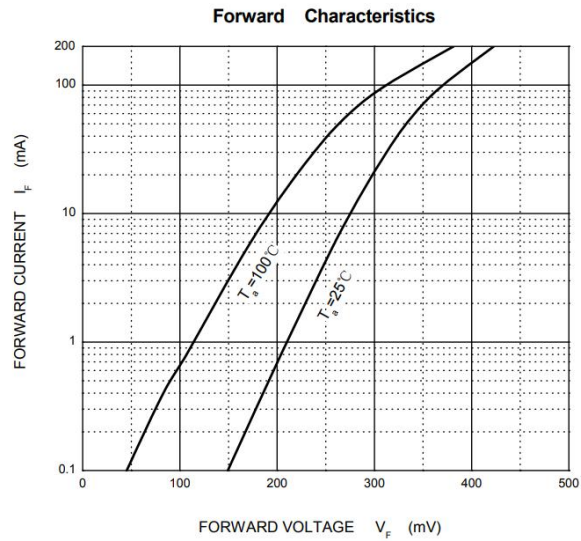
Parameter	Symbol	Value	Unit
Peak reverse voltage	V _{RM}	45	V
Reverse Voltage(DC)	V _R	40	V
Average Rectified Forward Current	I _O	200	mA
Peak Forward Surge Current	I _{FSM}	1	A
Operating Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-40 ~ +125	°C

● Electrical Characteristics @T_A=25°C

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Maximum reverse breakdown voltage	V _R	I _R =0.1mA	40			V
Forward Voltage	V _F	I _F = 10mA	0.16		0.30	
	V _F	I _F = 100mA	0.31		0.45	
	V _F	I _F = 200mA	0.41		0.54	V
Reverse Current	I _R	V _R = 40V			90	uA



● Typical Performance Characteristics





● Package Information

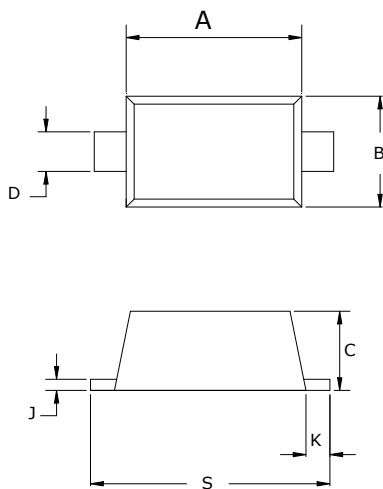
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCS521S40D3	SOD-523	S	3000	7 Inch

Mechanical Data

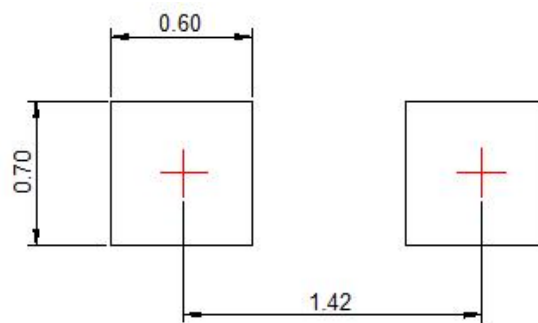
Case: SOD-523

Case Material: Molded Plastic. UL Flammability



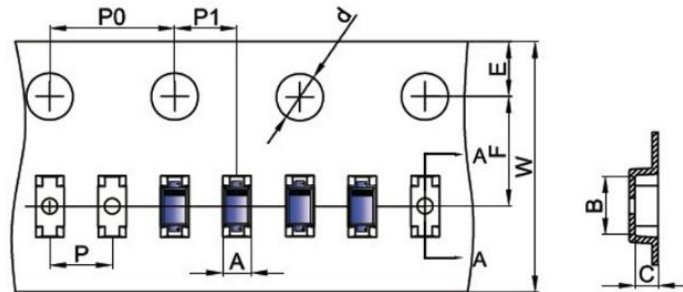
DIM	Millimeters	
	Min	Max
A	1.10	1.30
B	0.75	0.85
C	0.51	0.70
D	0.25	0.35
J	0.08	0.15
K	0.15	0.25
S	1.50	1.70

Recommended Pad outline



SOD-523 Tape and reel

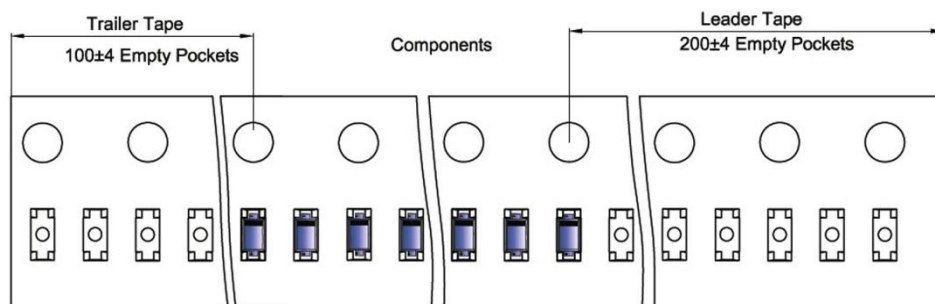
SOD-523 Embossed Carrier Tape



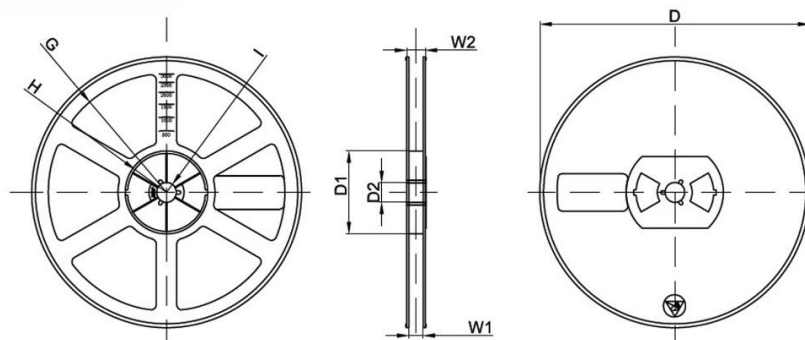
A-A

Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-523	0.9	1.94	0.73	Φ1.50	1.75	3.50	4.00	2.00	2.00	8.00
(Tolerance)	+/-0.05	+/-0.05	+/-0.05	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+0.3/-0.1

SOD-523 Tape Leader and Trailer



SOD-523 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7"D1a	Φ178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30
Tolerance	+/-2	+/-1	+/-1	+/-1	+/-1	+/-1	+/-1	+/-1

Note: The SOD-523 package requires staggered loading of 3K per reel, meaning one empty slot between each loaded slot.



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