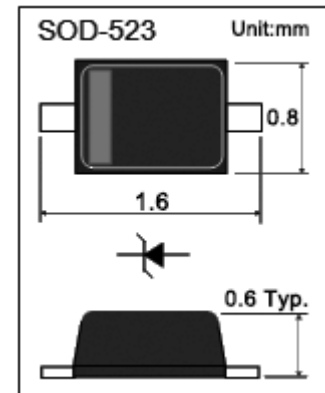


FAST SWITCHING DIODE / DATA SHEET

1SS400

- ◇ Fast switching devices
- ◇ **SOD523** Micro SMD package
- ◇ RoHS compliant / Green EMC
- ◇ Matte Tin (Sn) Lead finish
- ◇ Cathode Band / Device marking
- ◇ Surface Mount Package Ideally Suited for Automatic Insertion
- ◇ For General Purpose Switching Applications
- ◇ High Conductance

Device Marking Code	
1SS400	A



Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
VR	DC Reverse Voltage	80	V
V _{RM}	Peak Reverse Voltage	90	V
I _{FM}	Forward Continuous Current	225	mA
I _o	Average Rectified Output Current	100	mA
I _{surge}	Surge Current(1s)	500	mA
P _{ToT}	Total Power Dissipation	150	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics (Ta = 25 °C)

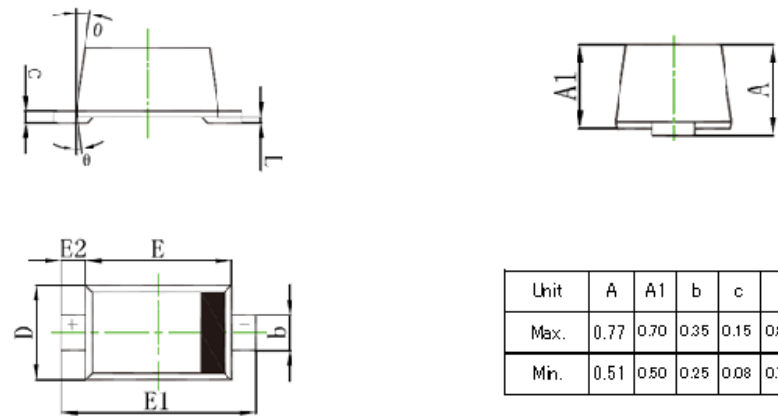
Symbol	Parameter	Conditions	Min	Max	Units
V _F	Forward Voltage	I _F = 100mA (25°C)		1.2	V
I _R	Reverse current	V _R = 80V (25°C)		0.1	μA
C _T	Capacitance	V _R = 0.5V, f = 1MHz		3.0	pF
t _{rr}	Reverse Recovery Time	I _F = I _R = 10mA, I _{RR} = 1mA, R _L = 100Ω		4	ns

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
1SS400	SOD523	Tape & Reel 8000pcs /7" Reel	8 mm	4 mm	Conductive	

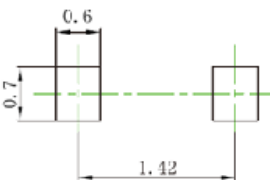
Package Dimensions

Package outline : SOD-523



Unit	A	A1	b	c	D	E	E1	E2	L	θ
Max.	0.77	0.70	0.35	0.15	0.85	1.30	1.70	0.20	0.07	7°
Min.	0.51	0.50	0.25	0.08	0.75	1.10	1.50	REF.	0.01	REF.

SOD523 Package Outline



End Pattern Recommendation

Note:

1. Halogen free,EMC
2. Pb free solder
3. Lead thickness includes solder plating
4. Lead frame: Cu
5. Other Tolerance: ± 0.05
6. Dimensions are exclusive of Burrs,Mold Flash and Tie Bar extrusions
7. Unit: mm