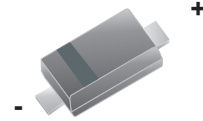


## 1SS400-G

**Reverse Voltage: 90 Volts**  
**Rectifying Current: 100 mA**  
**RoHS Device**



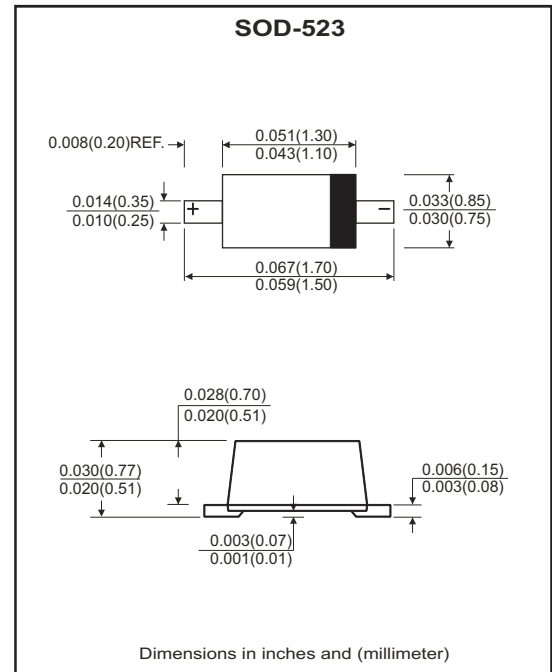
### Features

- High speed.
- Small surface mount type.
- High reliability with high surge current handling capability.

### Mechanical data

- Case: SOD-523 standard package, Molded Plastic
- Terminals: Solderable per MIL-STD-750, method 2026
- Marking code: cathode band & A
- Mounting position: Any
- Weight: 0.012 gram(approx.)

### Circuit Diagram



### Maximum Ratings (at T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	1SS400-G	Unit
Peak reverse voltage	V <sub>RM</sub>	90	V
DC reverse voltage	V <sub>DC</sub>	80	V
Peak forward current	I <sub>FM</sub>	225	mA
Mean rectified current	I <sub>o</sub>	100	mA
Surge current	I <sub>FSM</sub>	500	mA
Power dissipation	P <sub>D</sub>	150	mW
Junction temperature	T <sub>J</sub>	125	°C
Storage temperature range	T <sub>STG</sub>	-55 ~ +125	°C

### Electrical Characteristics (at T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =100mA	-----	-----	1.2	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =80V	-----	-----	0.1	μA
Capacitance between terminals	C <sub>T</sub>	V <sub>R</sub> =0.5V, f=1.0MHz	-----	-----	3.0	pF
Reverse recovery time	t <sub>rr</sub>	V <sub>R</sub> =6V, I <sub>F</sub> =10mA, R <sub>L</sub> =100Ω	-----	-----	4.0	nS

## RATING AND CHARACTERISTIC CURVES (1SS400-G)

Fig.1 - Power Derating Curve

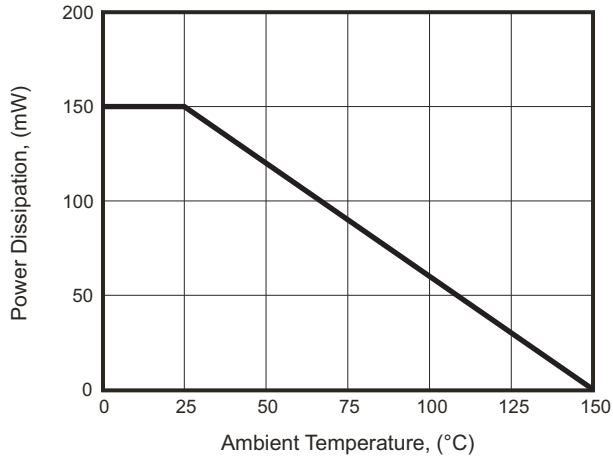


Fig.2 - Typical Forward Characteristics

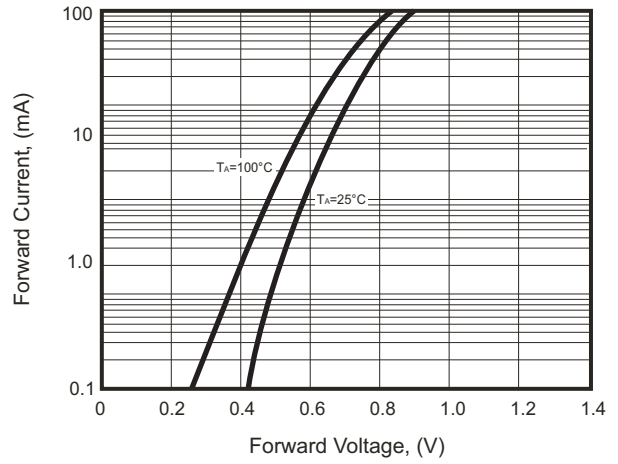


Fig.3 - Typical Reverse Characteristics

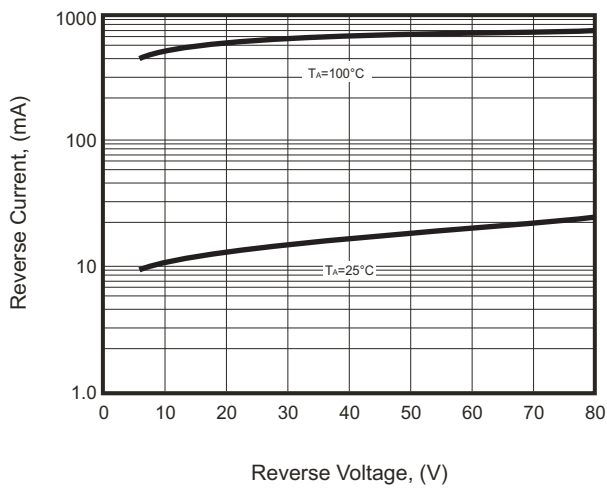
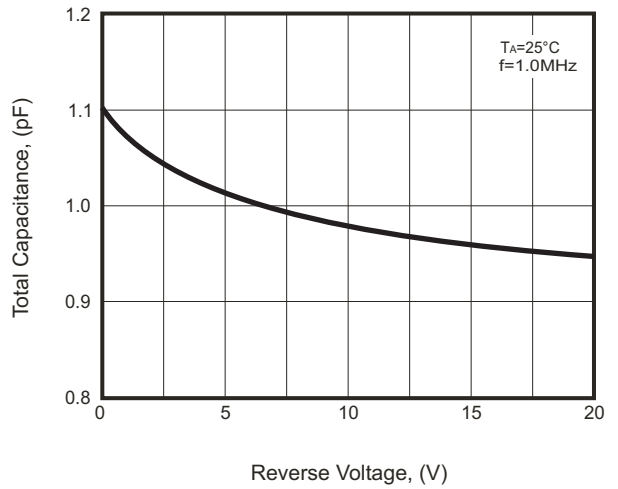
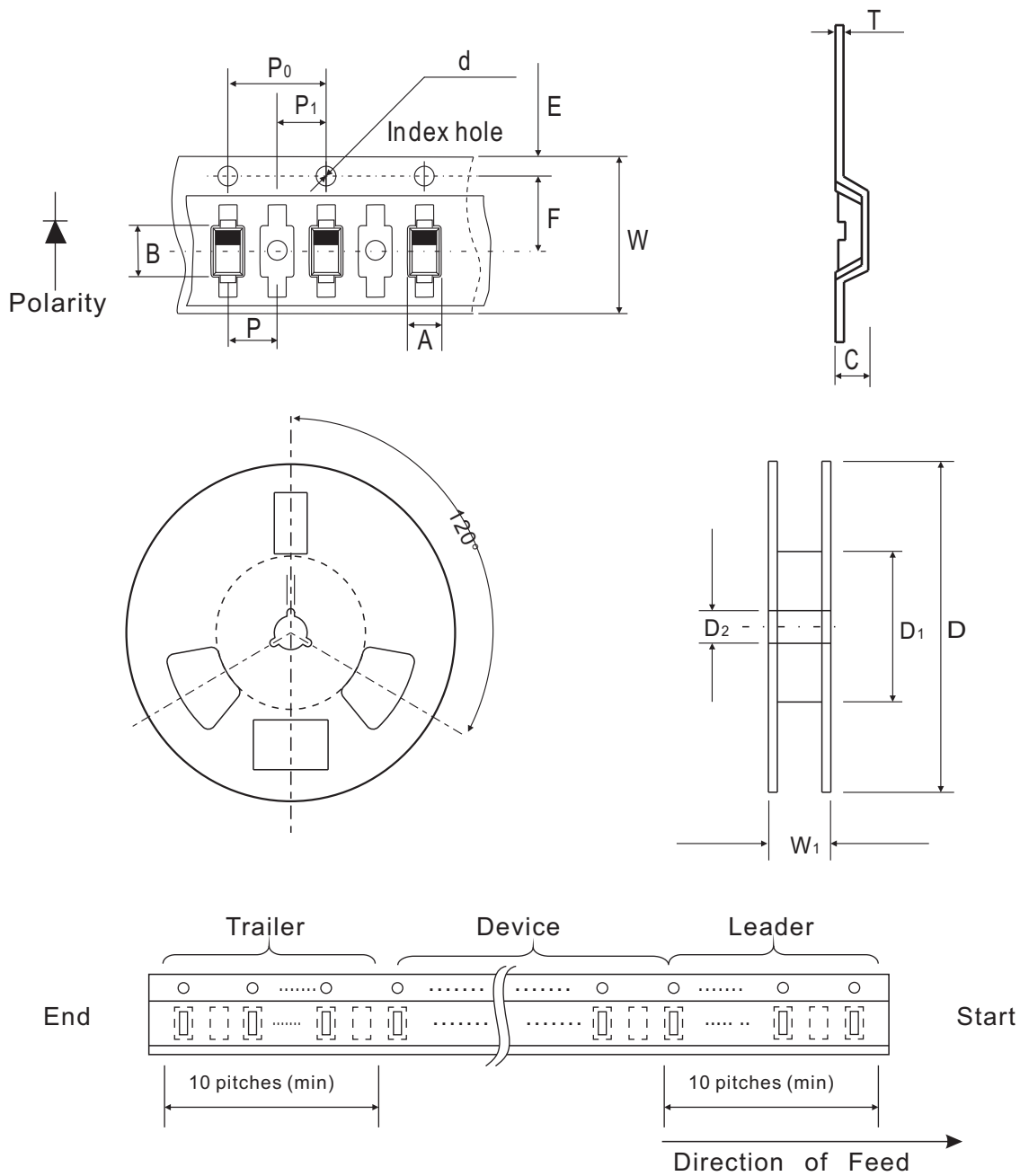


Fig.4 - Capacitance Characteristics



## Reel Taping Specification



SOD-523	SYMBOL	A	B	C	d	D	D <sub>1</sub>	D <sub>2</sub>
	(mm)	0.90 ± 0.10	1.94 ± 0.10	0.73 ± 0.10	1.50 ± 0.10	178 ± 1.00	54.40 ± 0.40	13.00 ± 0.20
	(inch)	0.035 ± 0.004	0.076 ± 0.004	0.029 ± 0.004	0.059 ± 0.004	7.008 ± 0.039	2.142 ± 0.016	0.512 ± 0.008

SOD-523	SYMBOL	E	F	P	P <sub>0</sub>	P <sub>1</sub>	W	W <sub>1</sub>
	(mm)	1.75 ± 0.10	3.50 ± 0.05	2.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	8.00 + 0.30 / - 0.10	9.50 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.079 ± 0.004	0.158 ± 0.004	0.079 ± 0.004	0.315 + 0.012 / - 0.004	0.374 ± 0.039

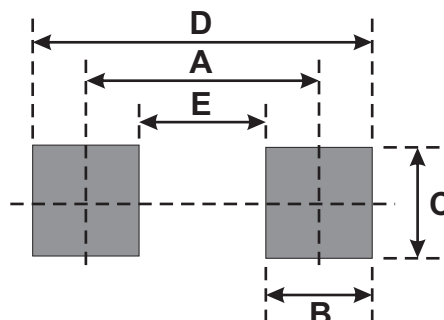
## Marking Code

Part Number	Marking Code
1SS400-G	A



## Suggested PAD Layout

SIZE	SOD-523	
	(mm)	(inch)
A	1.40	0.055
B	0.60	0.024
C	0.70	0.028
D	2.00	0.079
E	0.80	0.031



## Standard Packaging

Case Type	REEL PACK	
	REEL ( pcs )	Reel Size (inch)
SOD-523	3,000	7

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