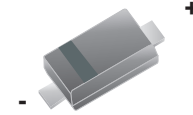


## 1SS400-G

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



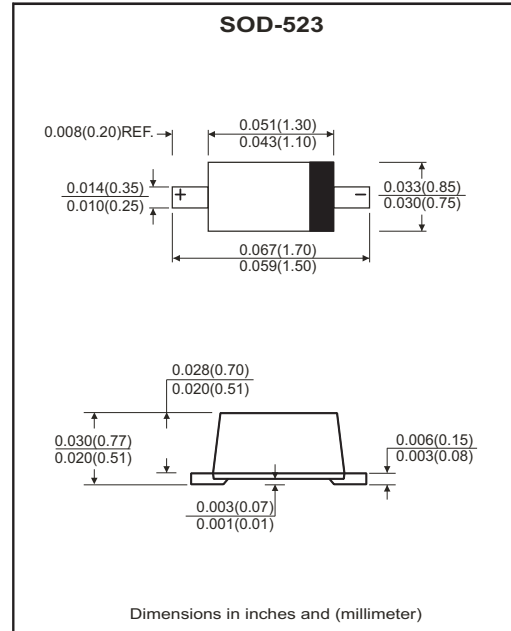
### Features

- 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 TA=25°C unless otherwise noted)

Parameter	Symbol	1SS400-G	Unit
Peak reverse voltage	$V_{RM}$	90	V
DC reverse voltage	$V_{DC}$	80	V
Peak forward current	$I_{FM}$	225	mA
Mean rectified current	$I_o$	100	mA
Surge current	$I_{FSM}$	500	mA
Power dissipation	$P_D$	150	mW
Junction temperature	$T_J$	125	°C
Storage temperature range	$T_{STG}$	-55 ~ +125	°C

### Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	$V_F$	$I_F=100mA$	----	----	1.2	V
Reverse current	$I_R$	$V_R=80V$	----	----	0.1	$\mu A$
Capacitance between terminals	$C_T$	$V_R=0.5V, f=1.0MHz$	----	----	3.0	pF
Reverse recovery time	$t_{rr}$	$V_R=6V, I_F=10mA, R_L=100\Omega$	----	----	4.0	nS

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

Fig.1 - Power Derating Curve

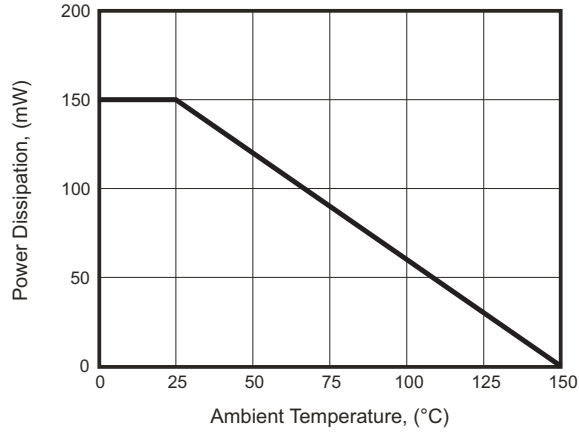


Fig.2 - Typical Forward Characteristics

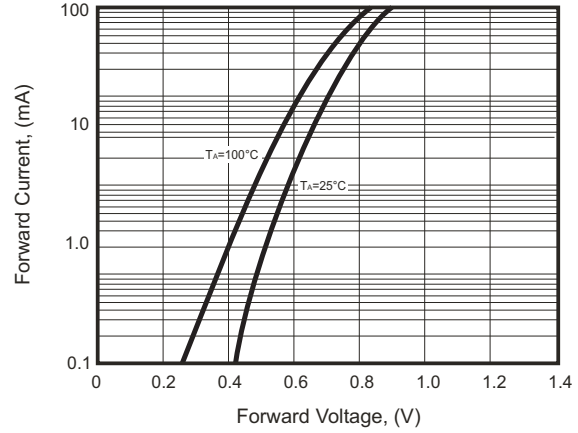


Fig.3 - Typical Reverse Characteristics

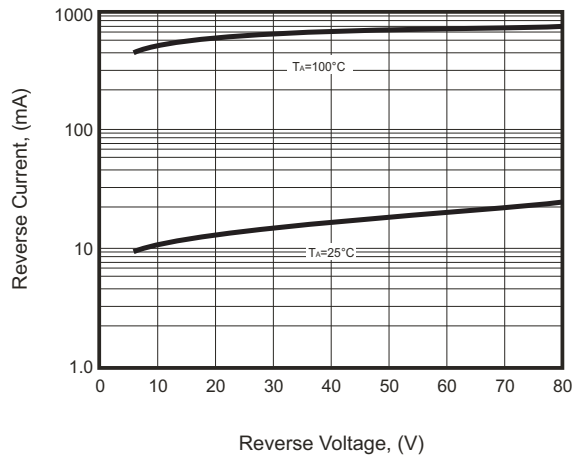
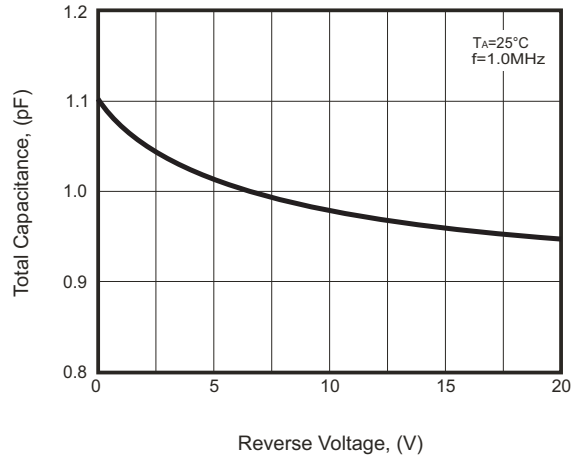
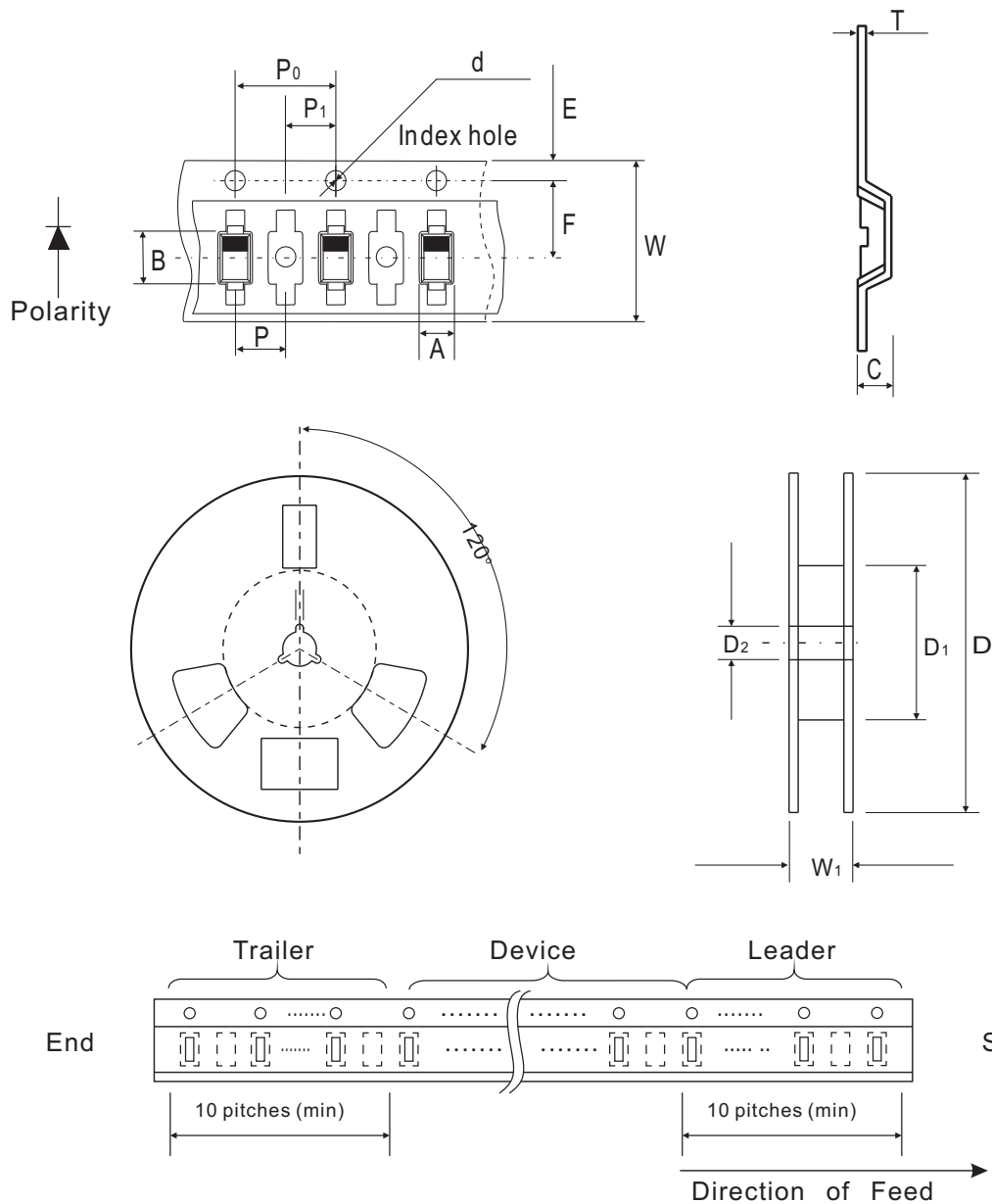


Fig.4 - Capacitance Characteristics



## Reel Taping Specification



SOD-523	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	$0.90 \pm 0.10$	$1.94 \pm 0.10$	$0.73 \pm 0.10$	$1.50 \pm 0.10$	$178 \pm 1.00$	$54.40 \pm 0.40$	$13.00 \pm 0.20$
	(inch)	$0.035 \pm 0.004$	$0.076 \pm 0.004$	$0.029 \pm 0.004$	$0.059 \pm 0.004$	$7.008 \pm 0.039$	$2.142 \pm 0.016$	$0.512 \pm 0.008$

SOD-523	SYMBOL	E	F	P	P0	P1	W	W1
	(mm)	$1.75 \pm 0.10$	$3.50 \pm 0.05$	$2.00 \pm 0.10$	$4.00 \pm 0.10$	$2.00 \pm 0.10$	$8.00 + 0.30 / - 0.10$	$9.50 \pm 1.00$
	(inch)	$0.069 \pm 0.004$	$0.138 \pm 0.002$	$0.079 \pm 0.004$	$0.158 \pm 0.004$	$0.079 \pm 0.004$	$0.315 + 0.012 / - 0.004$	$0.374 \pm 0.039$

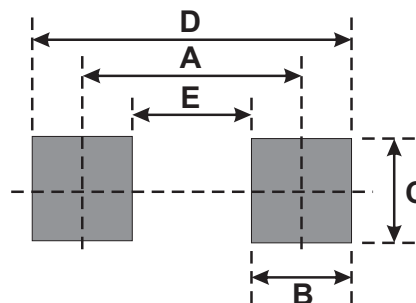
## Marking Code

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