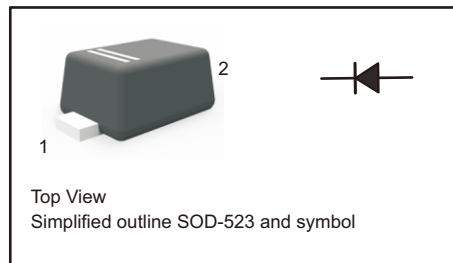




Switching Diodes

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



FEATURES

- For surface mounted applications
- Fast reverse recovery time
- Ideal for automated placement

Maximum Ratings at 25 °C

Parameter	Symbols	1SS400	Units
Reverse Voltage	V_R		V
Peak Repetitive Reverse Voltage	V_{RRM}	80	V
Working Peak Reverse Voltage	V_{RWM}		V
RMS Reverse Voltage	$V_{R(RMS)}$	56	V
Average Rectified Output Current	I_F	200	mA
Non-repetitive Peak Forward Surge Current@t= 1us	I_{FSM}	2	A
Power Dissipation	P_D	150	mW
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55 ~ +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbols	Test conditions	Min	Typ	Max	Units
Reverse voltage	$V_{(BR)}$	$I_R = 0.1\mu A$	80			V
Reverse current	I_R	$V_R = 80V$			0.1	uA
Forward voltage	V_F	$I_F = 100\text{ mA}$			1.2	V
Total capacitance	C_{tot}	$V_R = 0V, f = 1\text{MHz}$			3	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 10\text{mA}, I_{rr} = 0.1 * I_R, R_L = 100\Omega$			4	ns



Fig.1 Power Derating Curve

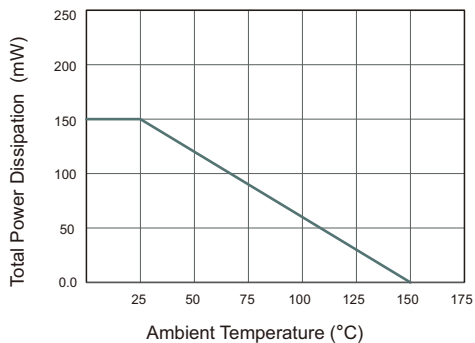


Fig.2 Typical Reverse Characteristics

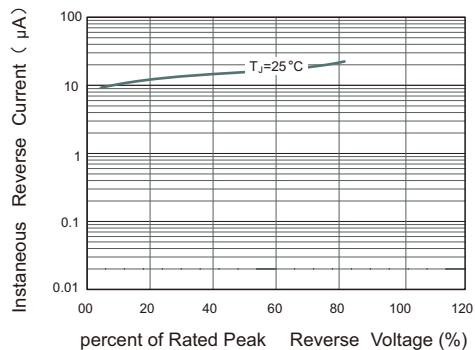


Fig.3 Typical Instaneous Forward Characteristics

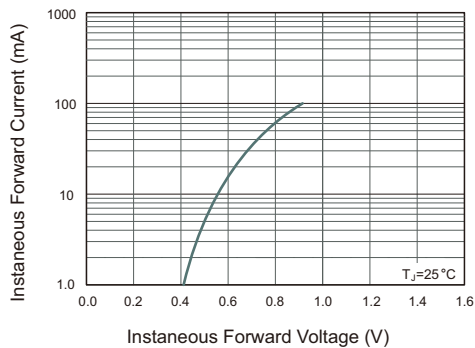
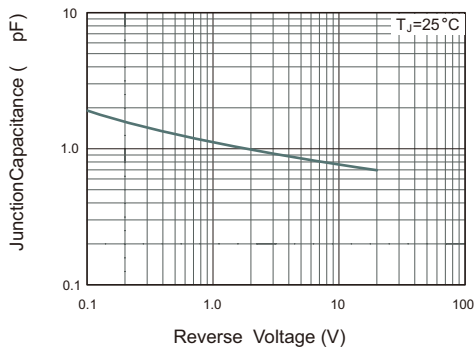


Fig.4 Typical Junction Capacitance

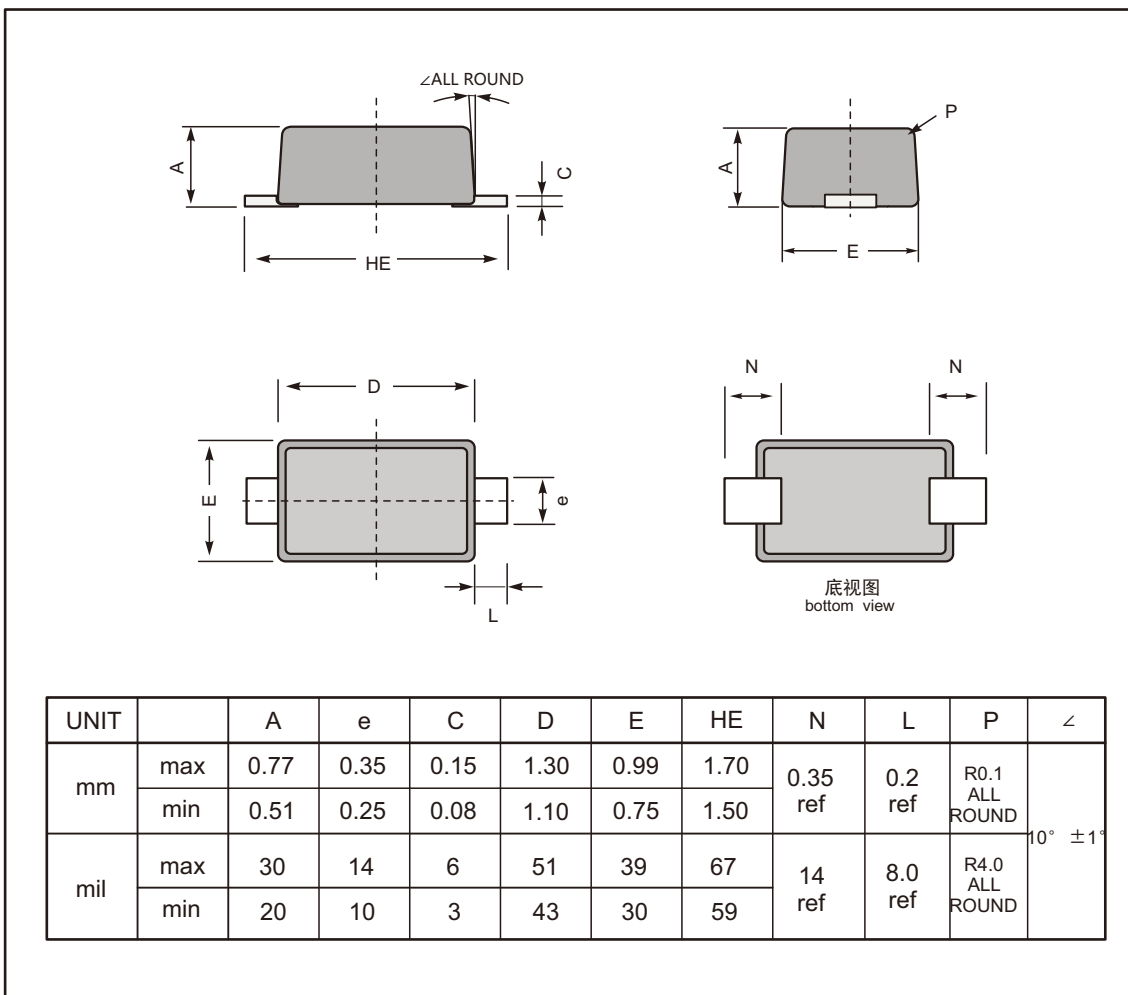




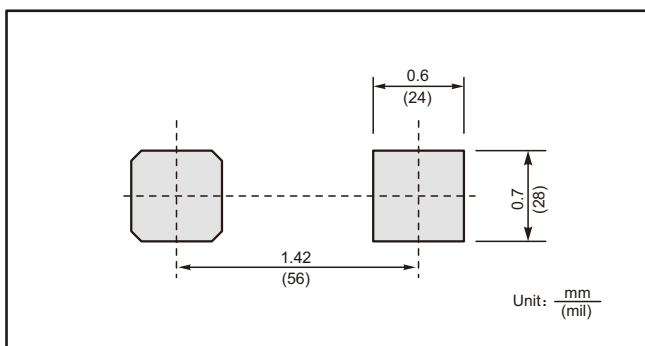
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



The recommended mounting pad size



Marking

Type number	Marking code
1SS400	A



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