

1SS400

Surface Mount Switching Diodes

Features

- Extremely High Switching Speed
- Low Reverse Leakage Current
- High Reliability
- Small Outline Surface Mount SOD-523 Package
- RoHS compliant package

Applications

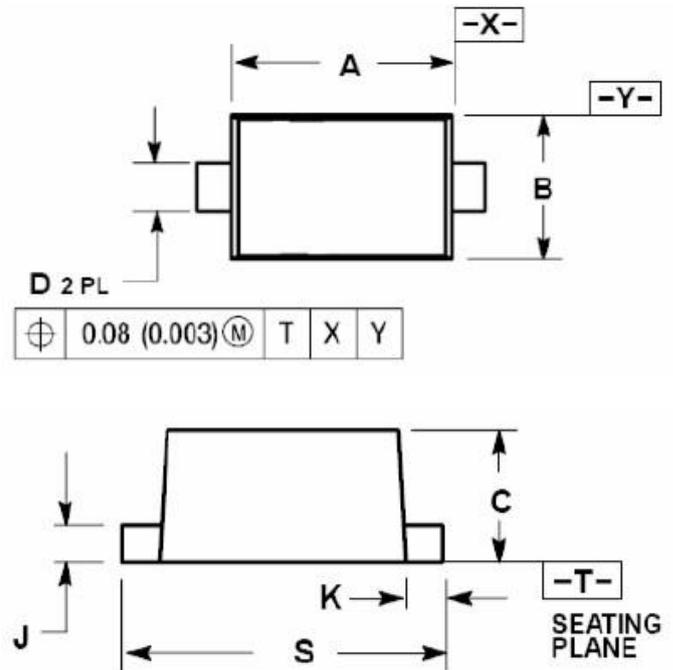
- High speed switching

Packing & Order Information

3,000/Reel

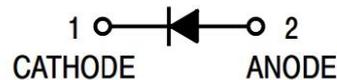


**RoHS
COMPLIANT**



Dim	Millimeters			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	1.10	1.20	1.30	0.043	0.047	0.051
B	0.70	0.80	0.90	0.028	0.032	0.035
C	0.50	0.60	0.70	0.020	0.024	0.028
D	0.25	0.30	0.35	0.010	0.012	0.014
J	0.07	0.14	0.20	0.0028	0.0055	0.0079
K	0.15	0.20	0.25	0.006	0.008	0.010
S	1.50	1.60	1.70	0.059	0.063	0.067

Graphic symbol



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings (Tc=25°C unless otherwise noted)

Parameter	Symbol	ISS400	Unit
Maximum Peak Reverse Voltage	VRM	90	V
Maximum DC Reverse Voltage	VR	80	V
Maximum Average Forward Current	IF(AR)	100	mA
Peak Forward Surge Current@t=1S	IFSM	500	mA
Operating Junction Temperature Range	TJ	125	°C
Storage temperature range	TSTG	40 to +125	°C

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Electrical characteristics (Tc=25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage (IR=100µA)	V(BR)R	80	--	--	V
Forward Voltage IF=100mA	VF	--	--	1.2	V
Reverse Current VR=80V	IR	--	--	0.1	µA
Capacitance between terminals VR=0.5V, f=1MHZ	CT	--	--	3.0	pF
Reverse Recovery Time VR=6V, IF=10mA,RL=100Ω	Trr	--	--	4.0	ns

Device marking

PART	MARK
1SS400	A4

1SS400

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■ RATING AND CHARACTERISTIC CURVES

<p>FIG.1- FORWARD CHARACTERISTICS</p>	<p>FIG.2- REVERSE CHARACTERISTICS</p>
<p>FIG.3- CAPACITANCE BETWEEN TERMINALS</p>	<p>FIG.4- REVERSE RECOVERY TIME CHARACTERISTICS</p>
<p>FIG.5- SURGE CURRENT CHARACTERISTIC</p>	<p>FIG.6- REVERSE RECOVERY TIME (TRR) MEASUREMENT CIRCUIT</p>

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