

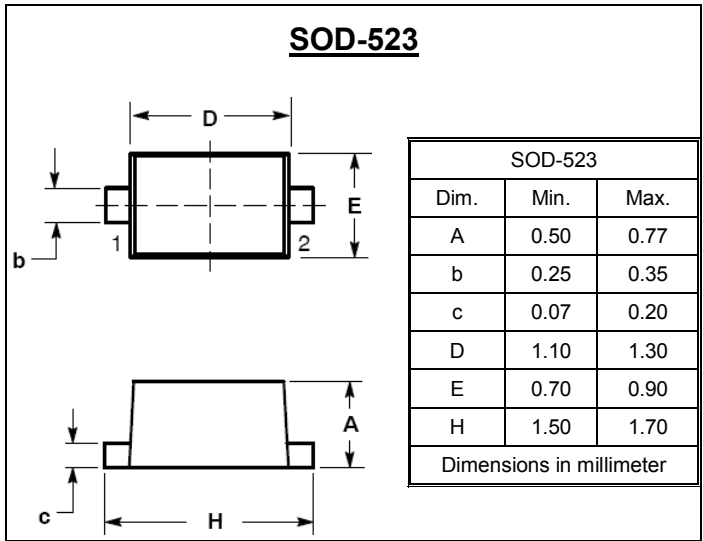
SURFACE MOUNT FAST SWITCHING DIODE	REVERSE VOLTAGE – 80 Volts FORWARD CURRENT – 0.1 Ampere
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FEATURES

- Fast switching speed
- Low reverse leakage current

MECHANICAL DATA

- Case: SOD-523 Plastic
- Case material: “Green” molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Moisture sensitivity: Level 1 per J-STD-020D
- Lead free in RoHS 2002/95/EC compliant



Maximum Ratings & Thermal Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	1SS400	Units
Non-Repetitive Peak Reverse Voltage	V _{RM}	90	V
DC Blocking Voltage	V _R	80	V
Forward Continuous Current	I _{FM}	225	mA
Average Rectified Output Current	I _O	100	mA
Peak Forward Surge Current @t=1s	I _{FSM}	0.5	A
Junction Temperature	T _J	125	°C
Storage Temperature Range	T _{STG}	-55~+125	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	1SS400	Unit
Maximum Forward Voltage	I _F = 100mA	V _F	1.2	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 80V	I _R	0.1	uA
Typical Diode Capacitance	V _R = 0V, f=1MHz	C _D	3	pF
Reverse Recovery time	V _R =6V, I _R =I _F =10mA R _L =100Ω	trr	4	ns

REV. 2, Jan-2013, KSYR14

RATING AND CHARACTERISTIC CURVES 1SS400



Fig.1 Typical Forward Characteristics

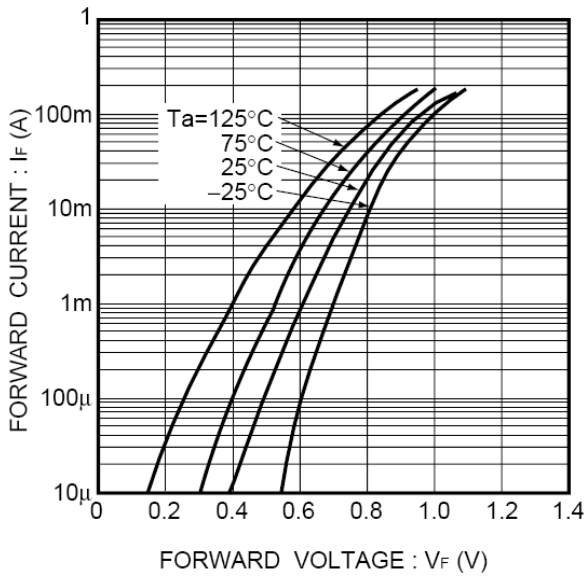


Fig.2 Typical Reverse Characteristics

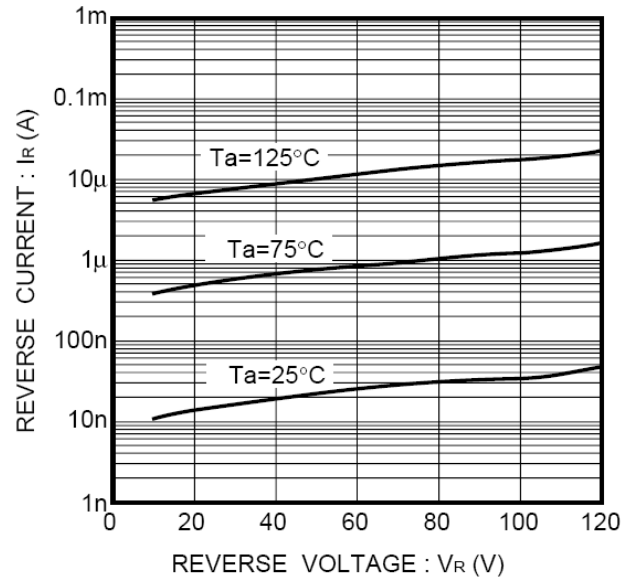


Fig.3 Total Capacitance vs. Reverse Voltage

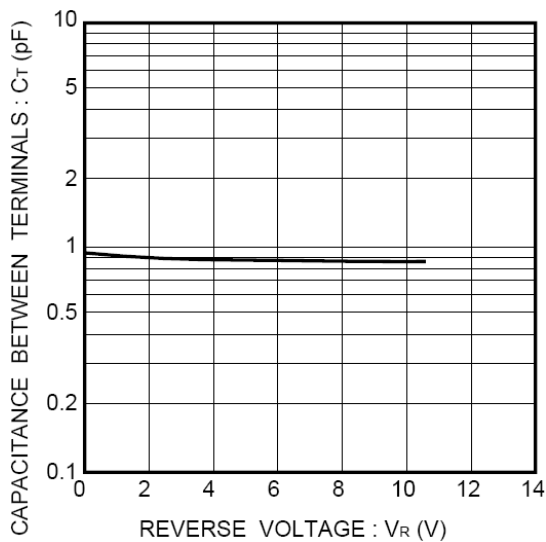


Fig.4 Reverse Recovery Time vs. Forward Current

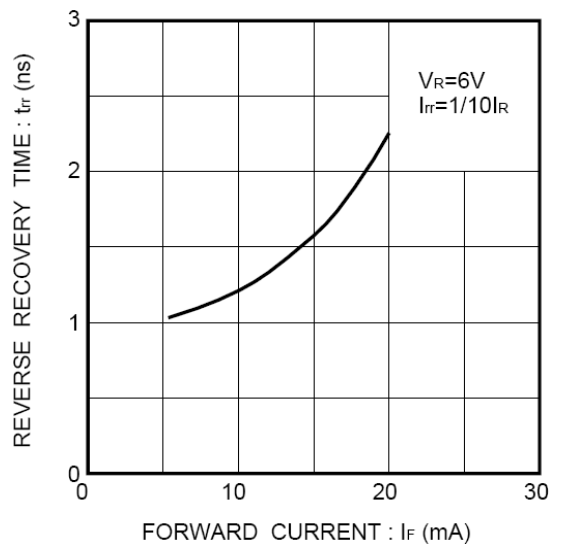


Fig.5 Surge Current Characteristics

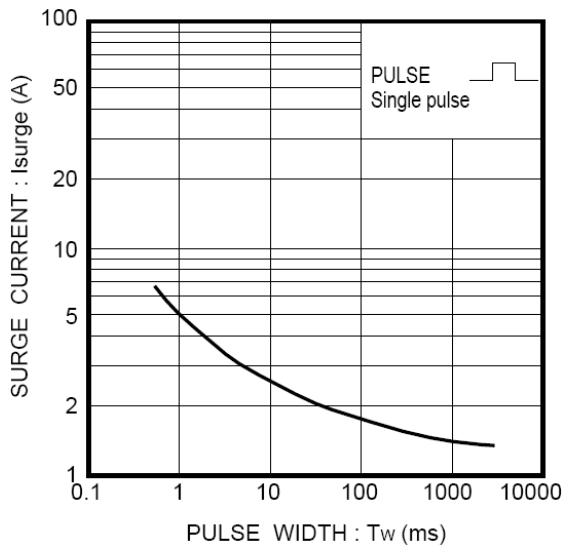
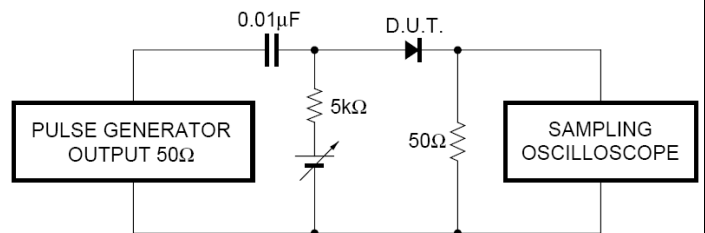



Fig.6 Reverse recovery time (trr) measurement circuit



Device Marking:

Device P/N	Marking code	Equivalent Circuit Diagram
1SS400	A	

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New Marking Rule Notification

Range: In order to have well management in process control, the new marking rule is applied to small signal device including Switching Diode, Transistor and Schottky Diode.

Package: SOD-123 / SOD-323 / SOD-523

