

# **1SS400**

### for high speed switching application

#### **FEATURES:**

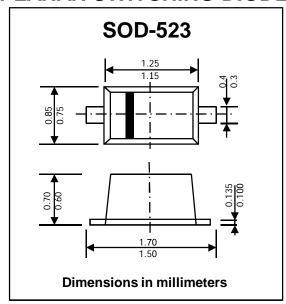
- \* Extremely small surface mounting type
- \* High reliability
- \* Pb / RoHS Free

#### **MECHANICAL DATA:**

\* Case: SOD-523 plastic Case

\* Marking Code: "A"

# SILICON EPITAXIAL PLANAR SWITCHING DIODE



## Absolute Maximum Ratings (Ta = 25 °C)

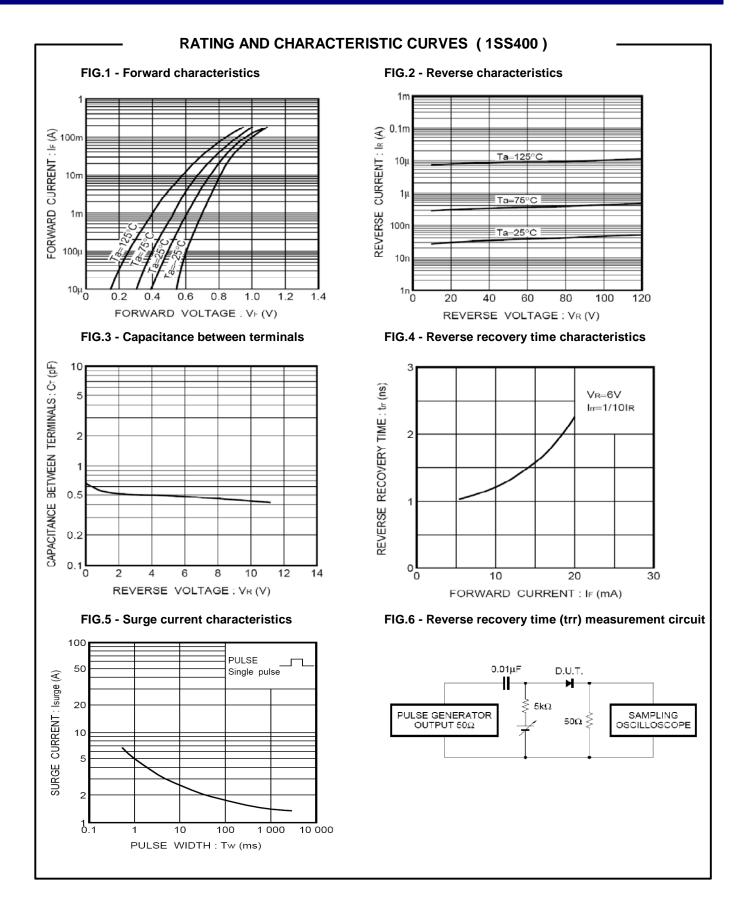
Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	$V_{RM}$	90	V
Maximum Reverse Voltage	V <sub>R</sub>	80	V
Maximum Average Rectified Forward Current	I <sub>F(AV)</sub>	100	mA
Maximum Peak Forward Current	I <sub>FM</sub>	225	mA
Non-repetitive Peak Forward Surge Current (at t = 1 s)	I <sub>FSM</sub>	500	mA
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150	°C

#### Electrical Characteristics (Ta = 25 °C)

	Parameter	Symbol	Max.	Unit
Forward Voltage	at I <sub>F</sub> = 100 mA	V <sub>F</sub>	1.2	V
Reverse Current	at V <sub>R</sub> = 80 V	I <sub>R</sub>	0.1	μΑ
Total Capacitance	at V <sub>R</sub> = 0.5V, f = 1 MHz	C <sub>T</sub>	3.0	pF
Reverse Recovery Tin	ne	trr	4.0	ns
at $V_R = 6V I_F = 10 \text{ mA}$ , $R_L = 100 \Omega$		ui	4.0	115

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