1SS400G

Silicon Epitaxial Planar Switching Diode

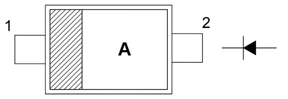
for high speed switching application

Features

- Ultra small surface mounting type
- High reliability

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: "**A**"
Simplified outline SOD-723 and symbol

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	90	V
Reverse Voltage	V_R	80	V
Average Rectified Forward Current	$I_{F(AV)}$	100	mA
Peak Forward Current	I_{FM}	225	mA
Non-repetitive Peak Forward Surge Current (at t = 1 s)	I_{FSM}	500	mA
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at I_F = 100 mA	V_F	1.2	V
Reverse Current at V_R = 80 V	I_R	0.1	µA
Capacitance Between Terminals at V_R = 0.5 V, f = 1 MHz	C_T	3	pF
Reverse Recovery Time at V_R = 6 V, I_F = 10 mA, R_L = 100 Ω	t_{rr}	4	ns

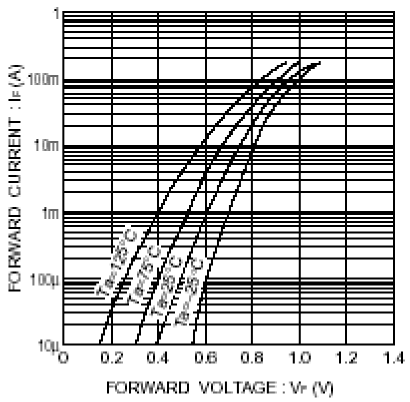


Fig.1 Forward characteristics

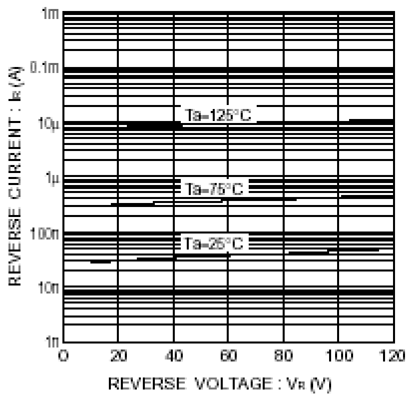


Fig.2 Reverse characteristics

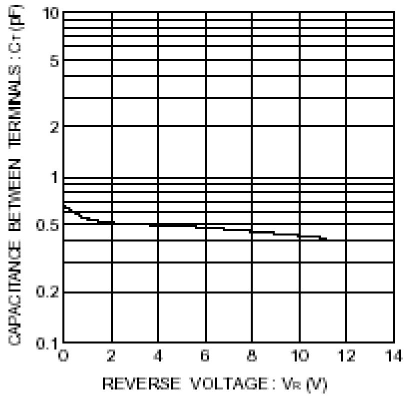


Fig.3 Capacitance between terminals

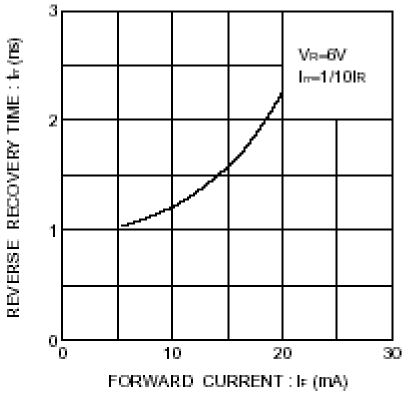


Fig.4 Reverse recovery time characteristics

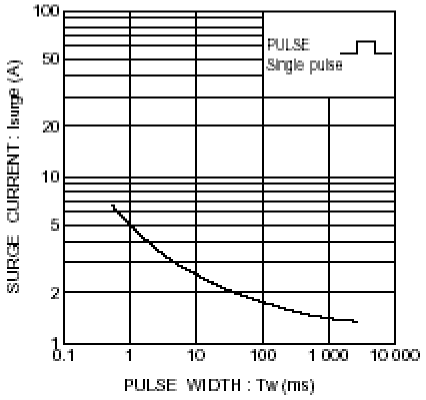


Fig.5 Surge current characteristics

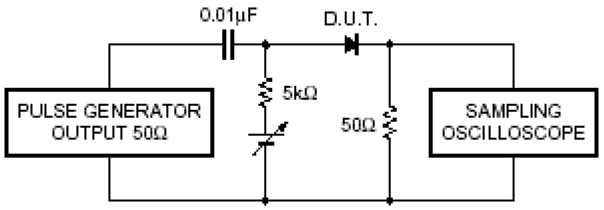


Fig.6 Reverse recovery time (trr) measurement circuit

PACKAGE OUTLINE

Plastic surface mounted package **SOD-723**

Package Outline Dimensions (Units: mm)