QUNHAN TECH

1SS400

Surface Mount Switching Diodes

SWITCHING DIODE
100 mAMPERES
90 VOLTS

Features:

*Extremely High Switching Speed.
*Low Reverse Leakage Current.
*High Reliability.
*Small Outline Surface Mount SOD-523 Package.

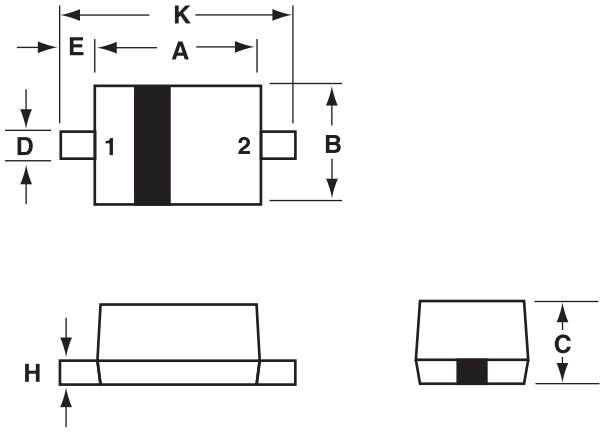
Applications:

*High Speed Switching.

SOD-523

SOD-523 Outline Dimensions

Unit:mm



SOD-523		
Dim	Min	Max
A	1.10	1.30
B	0.70	0.90
C	0.50	0.70
D	0.25	0.35
H	0.16	0.24
J	0.11	0.13
K	1.50	1.70

PIN 1. CATHODE
2. ANODE

1SS400

QUNHAN TECH

Maximum Ratings (T_a=25°C Unless otherwise noted)

Characteristic	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	90	Volts
DC Reverse Voltage	V_R	80	Volts
Average Rectifier Forward Current	$I_{F(AV)}$	100	mA
Peak Forward Surge Current @t=1S	I_{FSM}	500	mA
Operating Junction Temperature Range	T_J	125	°C
Storage Temperature Range	T_{stg}	-40 to +125	

Electrical Characteristics (T_A=25°C Unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
Reverse Breakdown Voltage (I_R=100μA)	$V_{(BR)R}$	80		Volts
Forward Voltage I_F=100mA	V_F		1.20	Volts
Reverse Leakage V_R=80V	I_R		0.1	μAdc
Capacitance Between Terminals V_R=0.5V, f=1MHZ	C_T		3.0	PF
Reverse Recovery Time V_R=6V, I_F=10mA, R_L=100Ω	Trr		4.0	ns

Device Marking

Item	Marking	Eqivalent Circuit diagram
1SS400	A	

Electrical characteristic curves (Ta = 25°C)

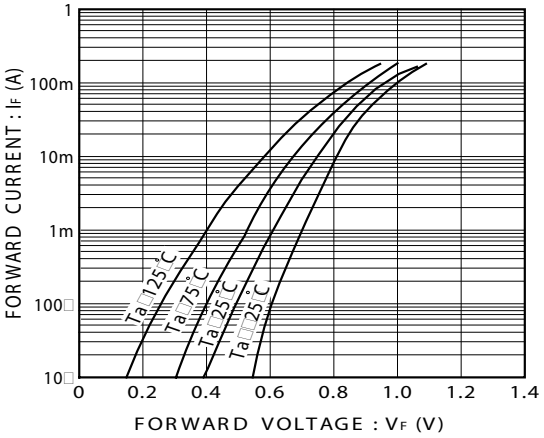


Fig.1 Forward characteristics

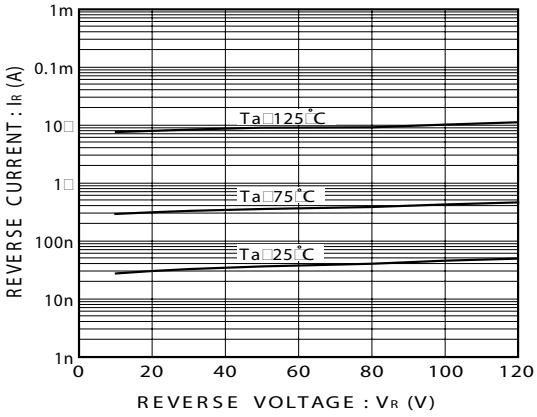


Fig.2 Reverse characteristics

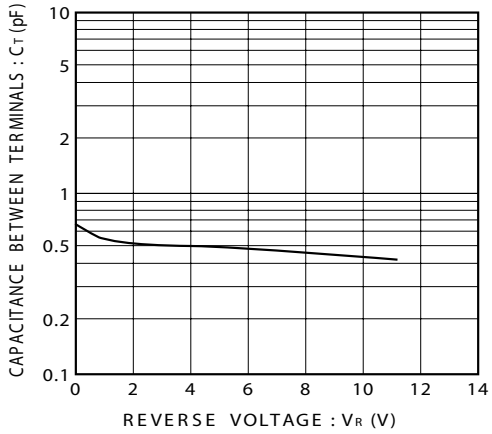


Fig.3 Capacitance between terminals

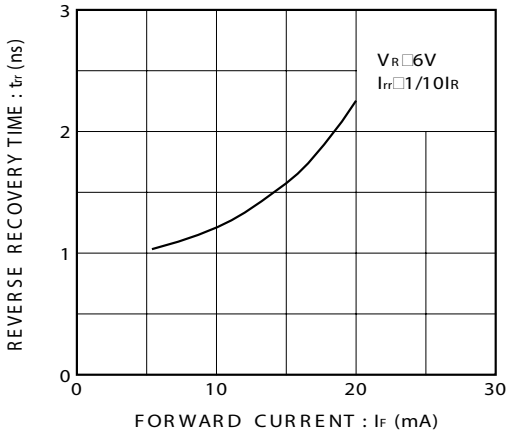


Fig.4 Reverse recovery time characteristics

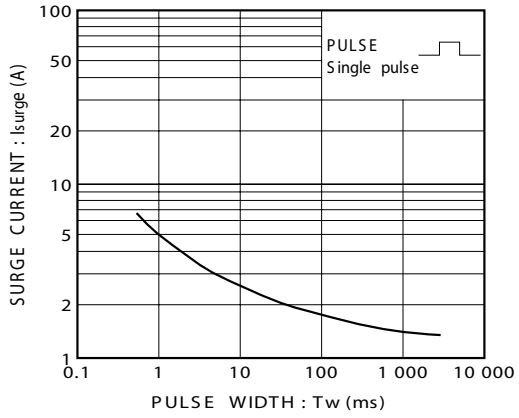


Fig.5 Surge current characteristics

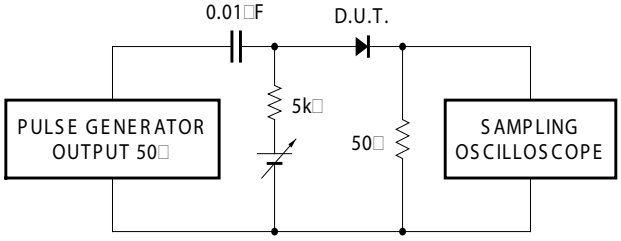


Fig.6 Reverse recovery time (t_{rr}) measurement circuit