WEITRON

1SS400D

Surface Mount Switching Diodes

Lead(Pb)-Free

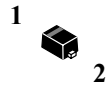
SWITCHING DIODES
100m AMPERES
90 VOLTS

Feature:

* Extremely High Switching Speed
* Low Reverse Leakage Current
* High Reliability
* Small Outline Surface Mount SOD-923 Package

Applications:

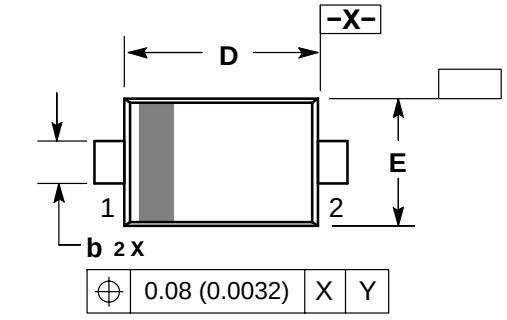
* High Speed Switching

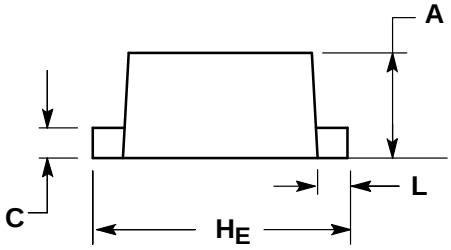


SOD-923

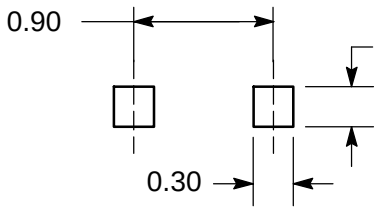
SOD-923 Outline Dimensions

Unit:mm





MILLIMETERS			
DIM	MIN	NOM	MAX
A	0.34	0.39	0.43
b	0.15	0.20	0.25
c	0.07	0.12	0.17
D	0.75	0.80	0.85
E	0.55	0.60	0.65
H_E	0.95	1.00	1.05
L	0.05	0.10	0.15



SOLDERING FOOTPRINT

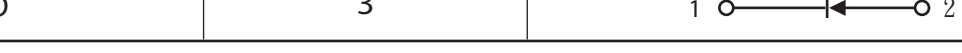
Maximum Ratings (T_A=25°C Unless otherwise noted)

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
Junction Temperature	Tj	125	°C
Storage Temperature	Tstg	-55 + 125	°C

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

Characteristic	Symbol	Min	Max	Unit
Forward Voltage I_F=100mA	V_F	-	1.2	Volts
Reverse Leakage V_R=80V	I_R	-	0.1	uAdc
Capacitance Between Terminals V_R=0.5V, f=1MHz	C_T	-	3.0	PF
Rverse Recovery Time V_R=6V, I_F=10mA, R_L=100Ω	Trr	-	4.0	ns

Device Marking

Item	Marking	Eqivalent Circuit diagram
1SS400D	3	

ELECTRICAL CHARACTERISTIC CURVES

(Ta = 25°C)

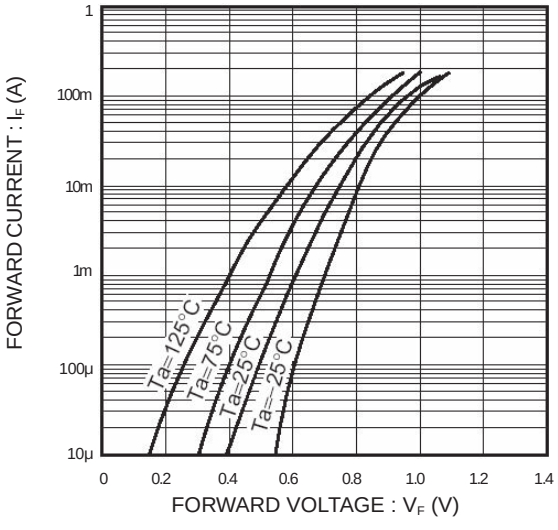


Fig.1 Forward characteristics

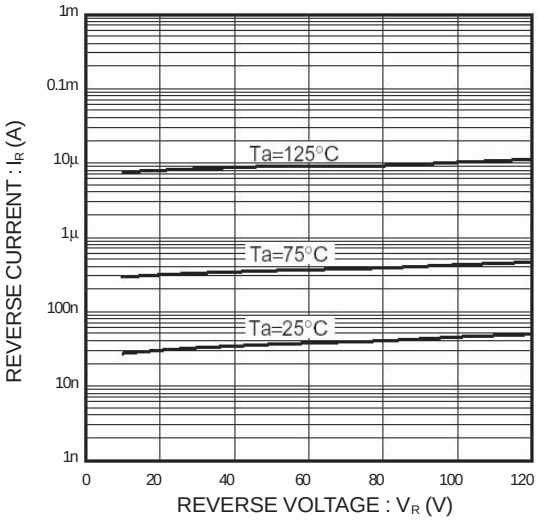


Fig.2 Reverse characteristics

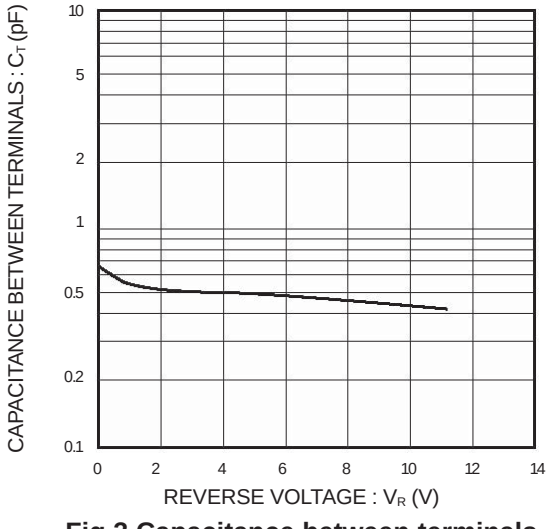


Fig.3 Capacitance between terminals

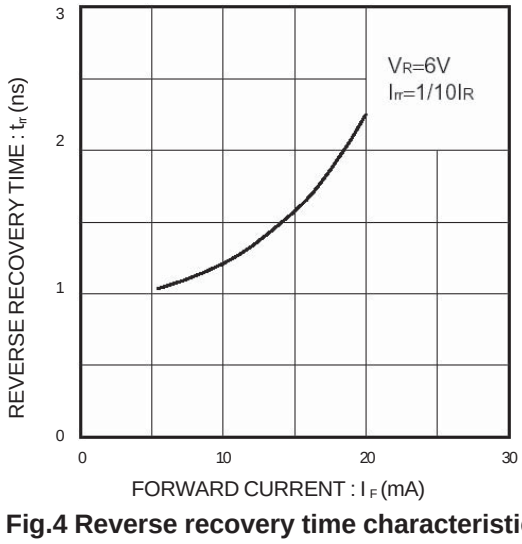


Fig.4 Reverse recovery time characteristics

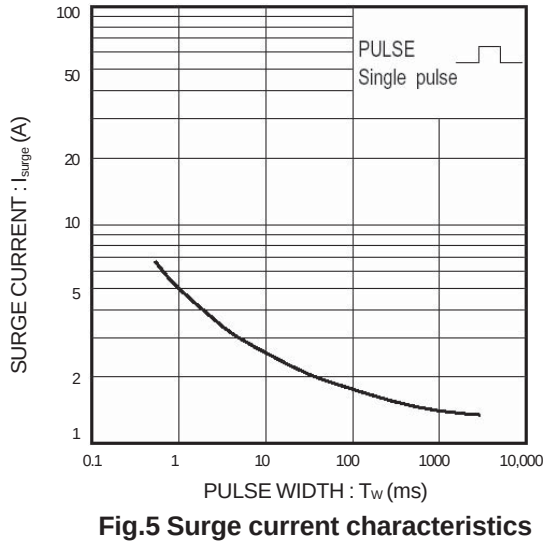


Fig.5 Surge current characteristics

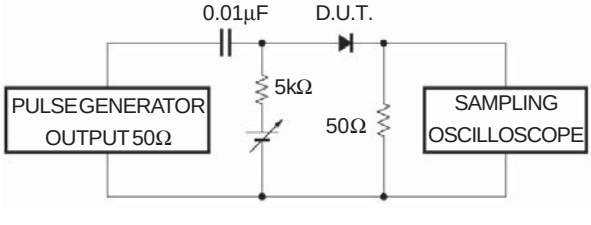


Fig.6 Reverse recovery time (t_{rr}) measurement circuit