

Surface Mount Switching Diodes

(Pb) Lead(Pb)-Free

Feature:

- * Extremely small surface mounting type.
- * High Speed
- * High Reliability

Applications:

- * High Speed Switching

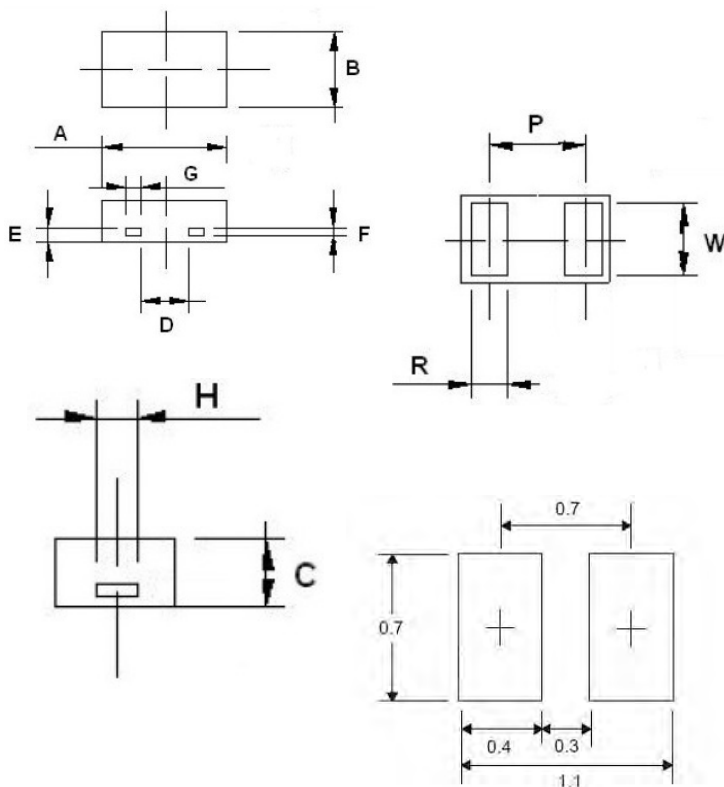
SWITCHING DIODES
225m AMPERES
90 VOLTS



SOD-882

SOD-882 Outline Dimensions

Unit:mm



MILLIMETERS			
DIM	MIN	NOM	MAX
A	0.95	1.00	1.05
B	0.55	0.60	0.65
C	0.465	0.4825	0.5
D	0.39		
E	0.127		
F	0.0635		
G	0.12		
H	0.20		
P	0.64		
R	0.2	0.25	0.3
W	0.44	0.49	0.54

SOLDERING FOOTPRINT


Maximum Ratings ($T_A=25^{\circ}\text{C}$ Unless otherwise noted)

Characteristic	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	90	V
DC Reverse Voltage	V_R	80	V
Peak Forward Current	I_{FM}	225	mA
Mean Rectifying Current	I_O	100	mA
Surge Current	I_{FSM}	500	mA
Junction Temperature	T_J	125	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-55 to +125	$^{\circ}\text{C}$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ Unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Forward Voltage $I_F=100\text{mA}$	V_F	-	-	1.2	V
Reverse Current $V_R=80\text{V}$	I_R	-	-	0.1	μA
Capacitance Between Terminals $V_R=0.5\text{V}$, $F=1\text{MHz}$	C_T	-	0.72	3.0	pF
Reverse Recovery Time $V_R=6\text{V}$, $I_F=10\text{mA}$, $R_L=100\Omega$	T_{rr}	-	-	4.0	ns

Device Marking

Item	Marking	Equivalent Circuit diagram
1SS400BS	3	 1 \circ — \leftarrow — \circ 2 Cathode Anode

ELECTRICAL CHARACTERISTIC CURVES (Ta = 25°C)

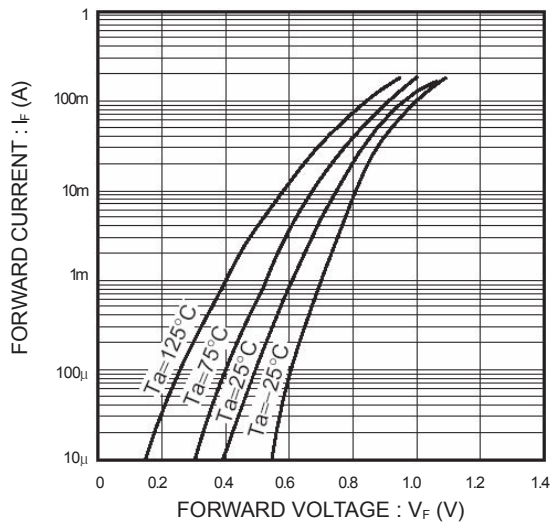


Fig.1 Forward characteristics

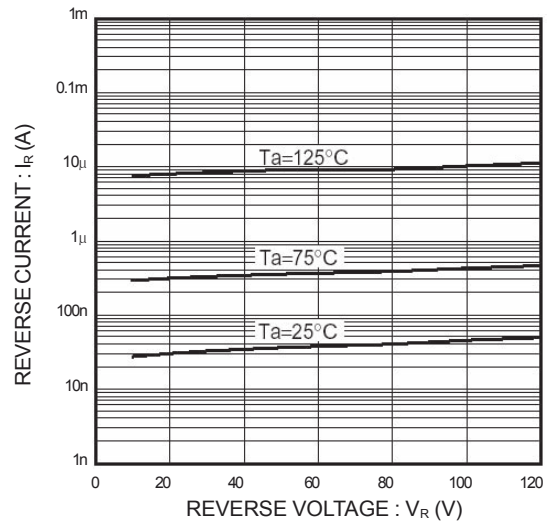


Fig.2 Reverse characteristics

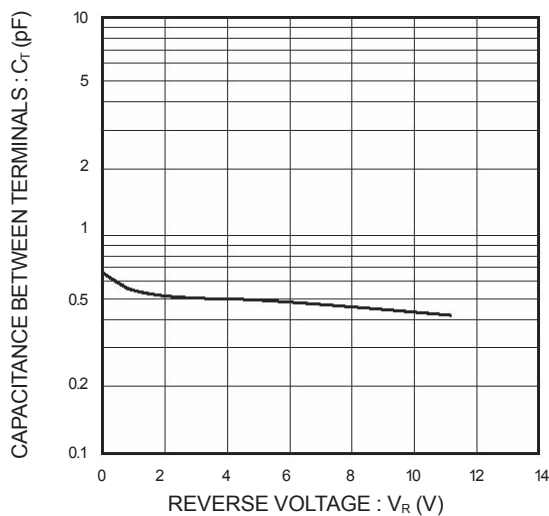


Fig.3 Capacitance between terminals