

Surface Mount Switching Diodes

(Pb) Lead(Pb)-Free

Feature:

- * Extremely High Switching Speed
- * Low Reverse Leakage Current
- * High Reliability
- * Small Outline Surface Mount SOD-723 Package

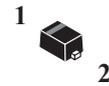
Applications:

- * High Speed Switching

SWITCHING DIODES

100m AMPERES

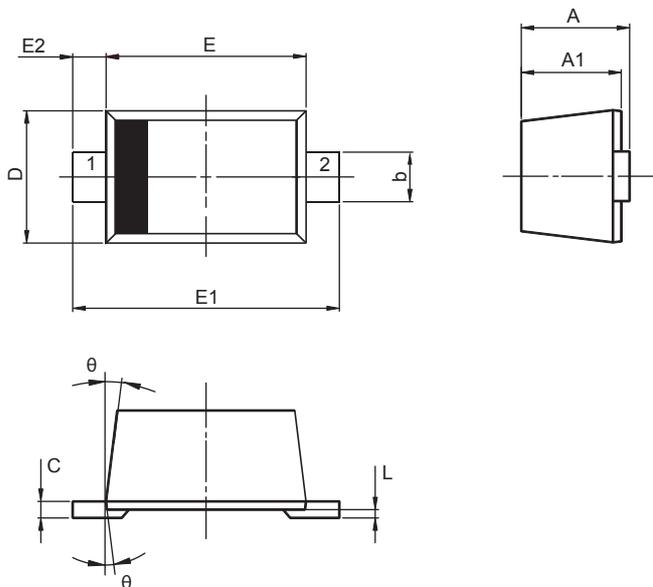
90 VOLTS



SOD-723

SOD-723 Outline Dimensions

Unit:mm



SOD-723		
Dim	Min	Max
A	0.525	0.650
A1	0.515	0.580
b	0.250	0.350
c	0.080	0.150
D	0.550	0.650
E	0.900	1.100
E1	1.300	1.500
E2	0.200 REF	
L	0.010	0.070
θ	7° REF	

PIN 1. CATHODE
2. ANODE

1SS400G



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	T _j	150	°C
Storage Temperature	T _{stg}	-55 + 150	°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
Reverse Recovery Time V _R =6V, I _F =10mA, R _L =100Ω	T _{rr}	—	4.0	ns

Device Marking

Item	Marking	Equivalent Circuit diagram
1SS400G	3	

Electrical Characteristics Curves($T_A=25^\circ\text{C}$)

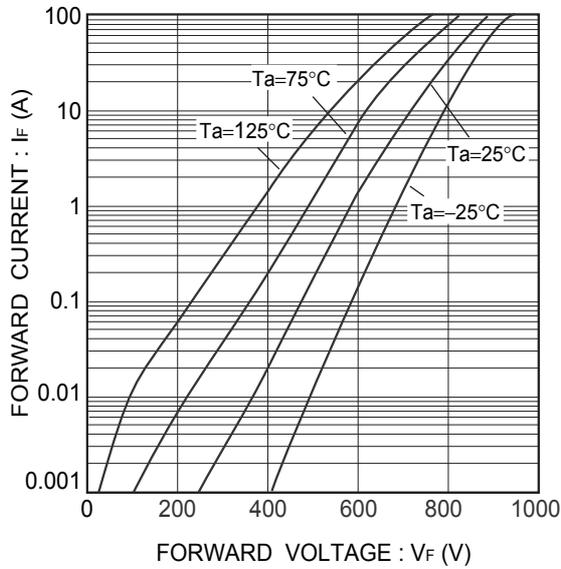


FIG.1 Forward Characteristics

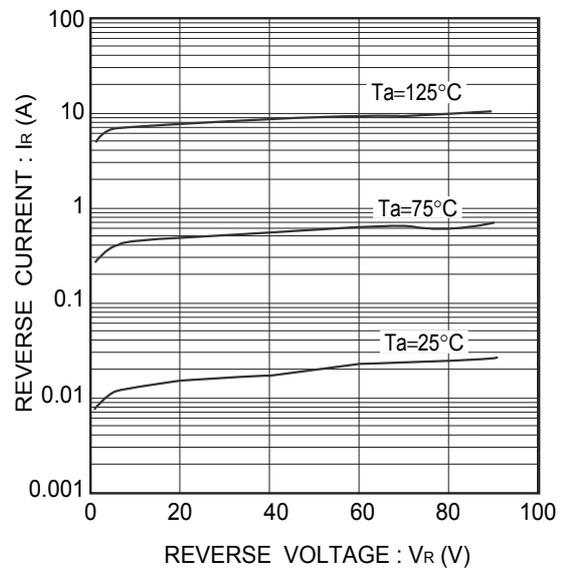


FIG.2 Reverse Characteristics

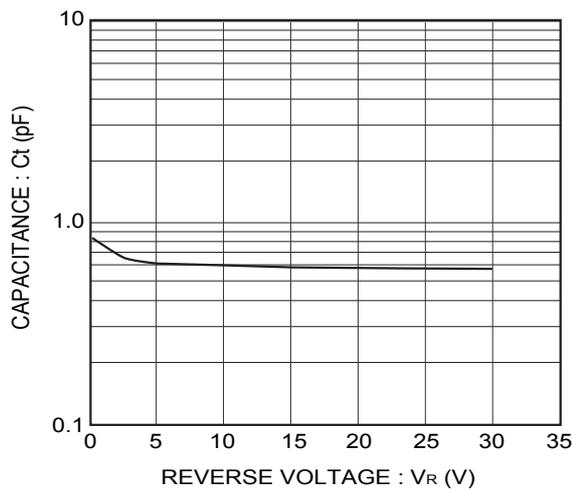


FIG.3 Characteristics