



## Switching diode

SOD - 723

### • Applications

High speed switching

### • Features

- 1) Extremely small surface mounting type.
- 2) High Speed.
- 3) High reliability.

### • Construction

Silicon epitaxial planar

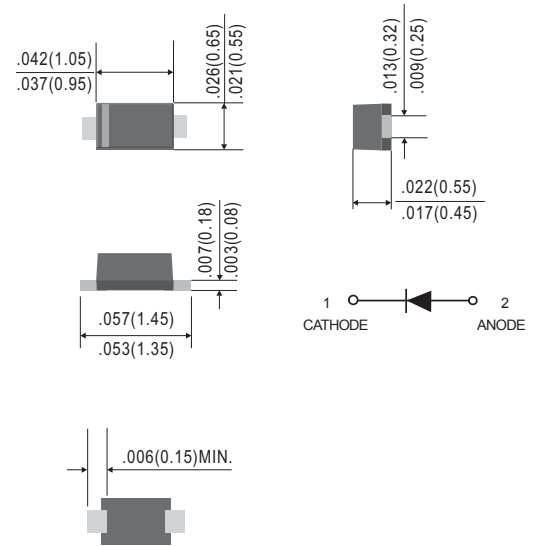
#### • Device Marking

1SS400G = 3A 1A

#### • Pb-Free package is available

RoHS product for packing code suffix "G"

Halogen free product for packing code suffix "H"



Dimensions in inches and (Millimeters)

### ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

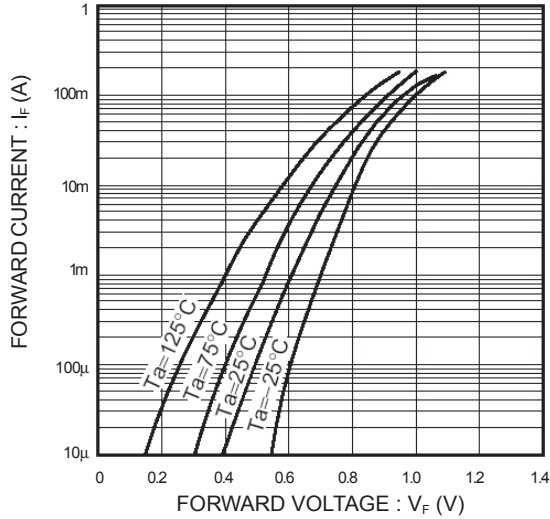
Parameter	Symbol	Limits	Unit
Peak reverse voltage	$V_{RM}$	90	V
DC reverse voltage	$V_R$	80	V
Peak forward current	$I_{FM}$	225	mA
Mean rectifying current	$I_O$	100	mA
Surge current (1s)	$I_{surge}$	500	mA
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	- 55 ~ +125	°C

### ELECTRICAL CHARACTERISTICS (Ta = 25°C)

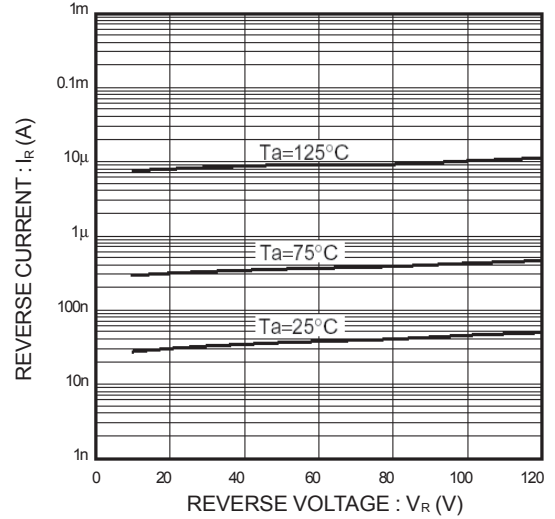
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	1.2	V	$I_F=100mA$
Reverse current	$I_R$	-	-	0.1	$\mu A$	$V_R=80V$
Capacitance between terminals	$C_T$	-	0.72	3.0	pF	$V_R=0.5V, f=1MHz$
Reverse recovery time	$t_{rr}$	-	-	4	ns	$V_R=6V, I_F=10mA, R_L=100\Omega$



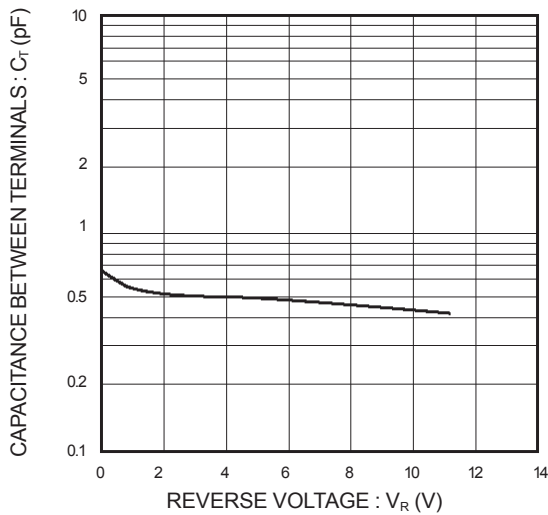
## ELECTRICAL CHARACTERISTIC CURVES ( $T_a = 25^\circ\text{C}$ )



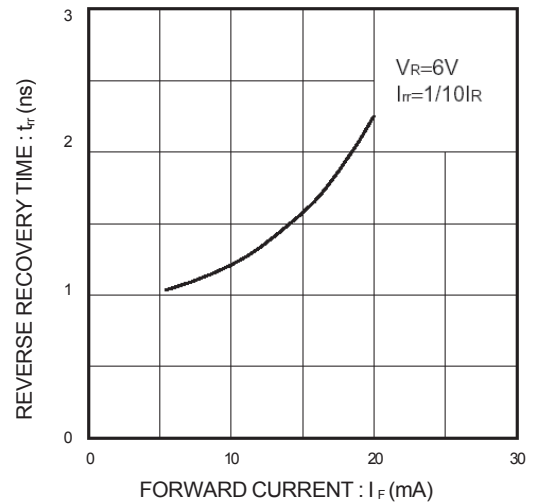
**Fig.1 Forward characteristics**



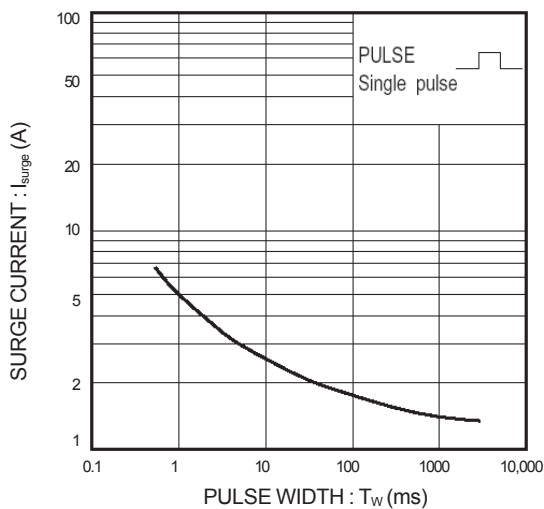
**Fig.2 Reverse characteristics**



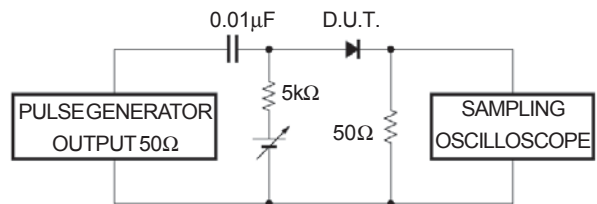
**Fig.3 Capacitance between terminals**



**Fig.4 Reverse recovery time characteristics**



**Fig.5 Surge current characteristics**



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