

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Small surface mounting type.
- High speed.
- High reliability with high surge current handling capability

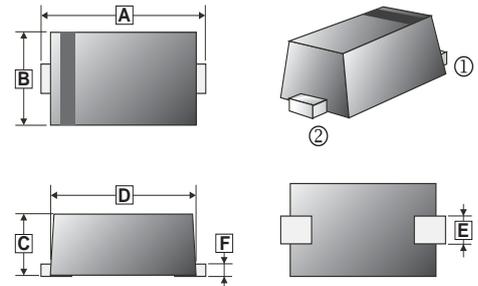
## MECHANICAL DATA

- Case: SOD-723, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Mounting Position: Any

## MARKING CODE

Part Number	Marking Code
SCS400G	7

## SOD-723



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.300	1.500	D	0.800	1.100
B	0.550	0.650	E	0.250	0.350
C	0.515	0.650	F	0.080	0.150

## PACKAGE INFORMATION

Package	MPQ	LeaderSize
SOD-723	8K	7' inch

## MAXIMUM RATINGS (T<sub>A</sub> = 25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Peak reverse voltage	V <sub>RM</sub>	90	V
DC Reverse Voltage	V <sub>R</sub>	80	V
Peak Forward Current	I <sub>FM</sub>	225	mA
Mean rectifying current	I <sub>O</sub>	100	mA
Peak Forward Surge Current, 1 second single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	500	mA
Maximum Instantaneous Forward Voltage @ I <sub>F</sub> =100mA	V <sub>F</sub>	1.2	V
Maximum DC Reverse Current @ V <sub>R</sub> =80V, T <sub>A</sub> =25°C	I <sub>R</sub>	0.1	µA
Capacitance between terminals @ V <sub>R</sub> =0.5V, f=1MHz	C <sub>T</sub>	3	pF
Reverse recovery time @ V <sub>R</sub> =6V, I <sub>F</sub> =10mA, R <sub>L</sub> =100Ω	T <sub>RR</sub>	4	nS
Operating Temperature Range	T <sub>J</sub>	125	°C
Storage temperature	T <sub>STG</sub>	-55 ~ 125	°C

Notes:

1. ESD sensitive product handling required.

**ELECTRICAL CHARACTERISTICS (@ $T_A = 25^\circ\text{C}$ )**

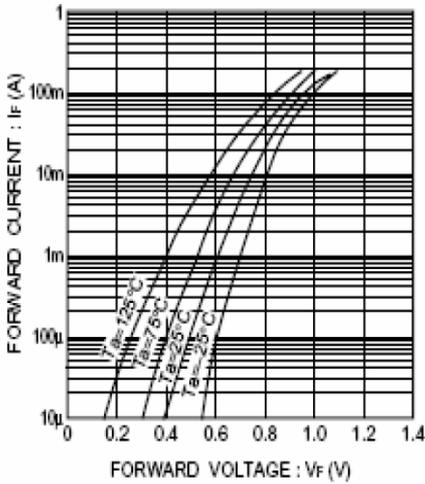


Fig.1 Forward characteristics

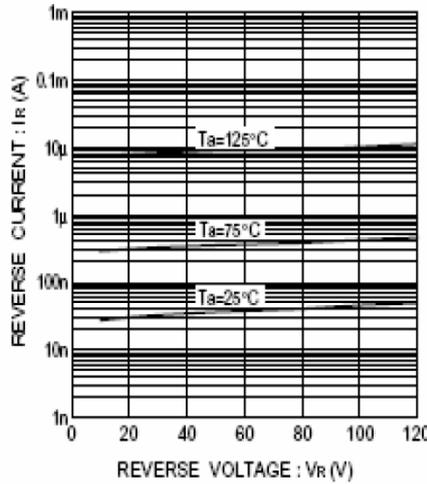


Fig.2 Reverse characteristics

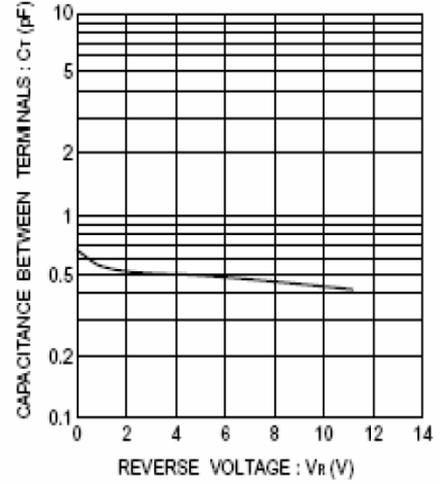


Fig.3 Capacitance between terminals

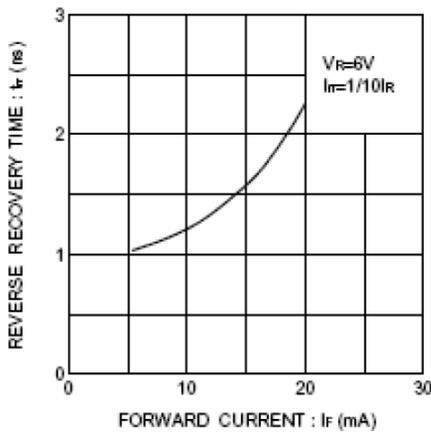


Fig.4 Reverse recovery time characteristics

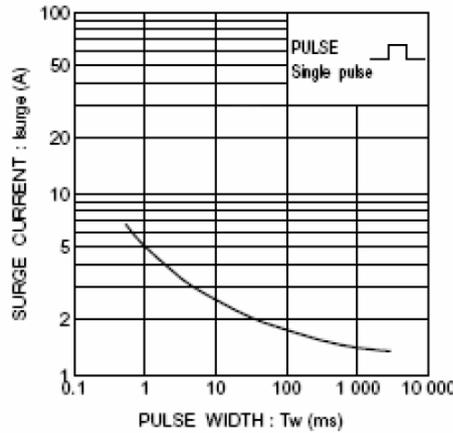


Fig.5 Surge current characteristics

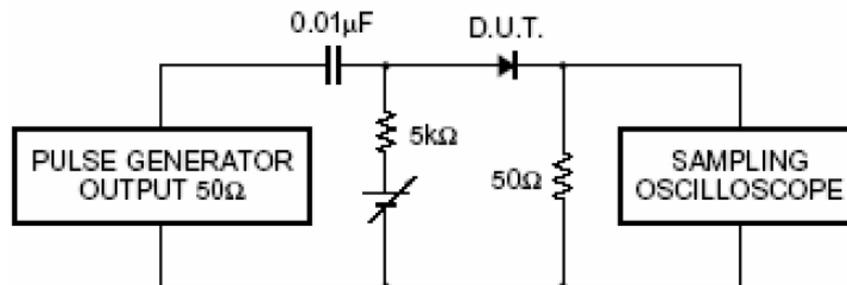


Fig.6 Reverse recovery time ( $t_r$ ) measurement circuit