

## Features

- Fast switching speed
- Low reverse leakage current

## Mechanical Data

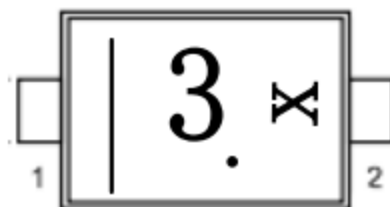
- Case: SOD-723 Plastic
- Case material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Moisture sensitivity: Level 1 per J-STD-020D
- Lead free in RoHS 2002/95/EC compliant



## Circuit Diagram



Marking:



"3" is Part Number, Fixed  
"x" is internal Code

## Maximum Ratings & Thermal Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	1SS400G	Units
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	90	V
DC Blocking Voltage	$V_R$	80	V
Forward Continuous Current	$I_{FM}$	225	mA
Average Rectified Output Current	$I_O$	100	mA
Peak Forward Surge Current @t=1s	$I_{FSM}$	0.5	A
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55~+125	$^\circ\text{C}$

## Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Test Condition	Symbol	1SS400G	Unit
Maximum Forward Voltage	$I_F = 100\text{mA}$	$V_F$	1.2	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$V_R = 80\text{V}$	$I_R$	0.1	$\mu\text{A}$
Typical Diode Capacitance	$V_R = 0\text{V}, f = 1\text{MHz}$	$C_D$	3	pF
Reverse Recovery time	$V_R = 6\text{V}, I_R = I_F = 10\text{mA}, R_L = 100\Omega$	trr	4	ns

Typical Electrical Characteristic Curves

Fig.1 Typical Forward Characteristics

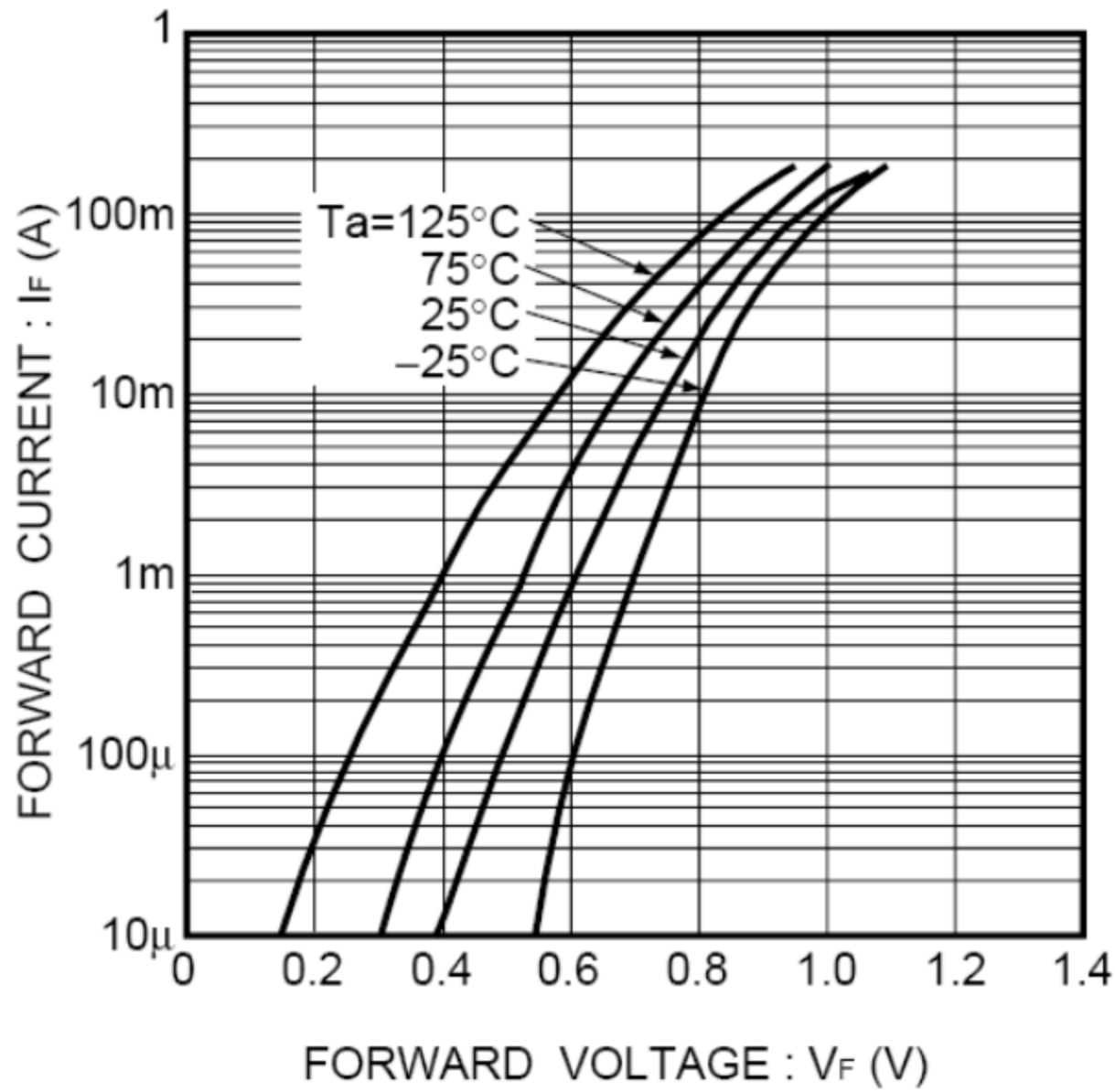


Fig.2 Typical Reverse Characteristics

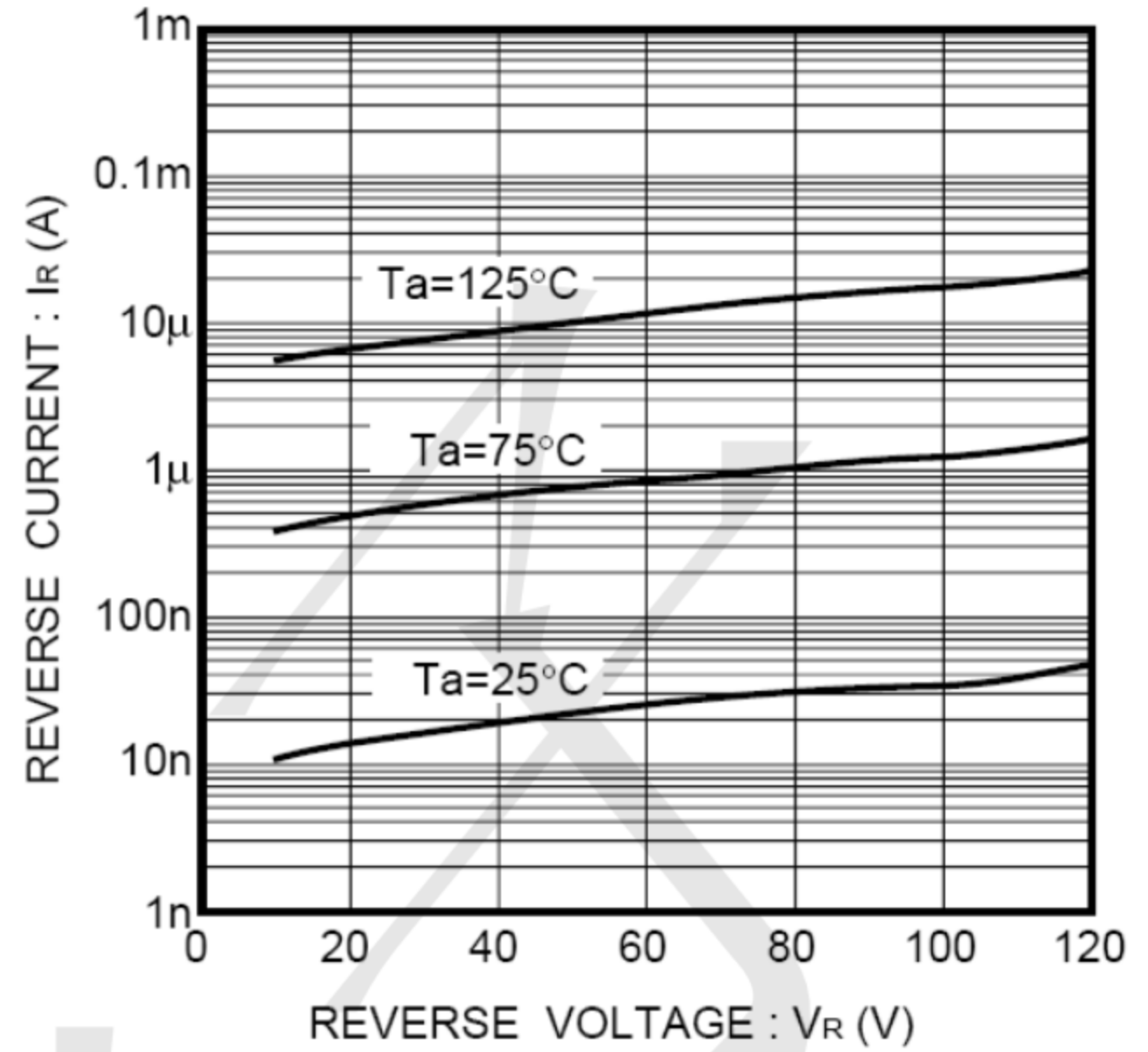


Fig.3 Total Capacitance vs. Reverse Voltage

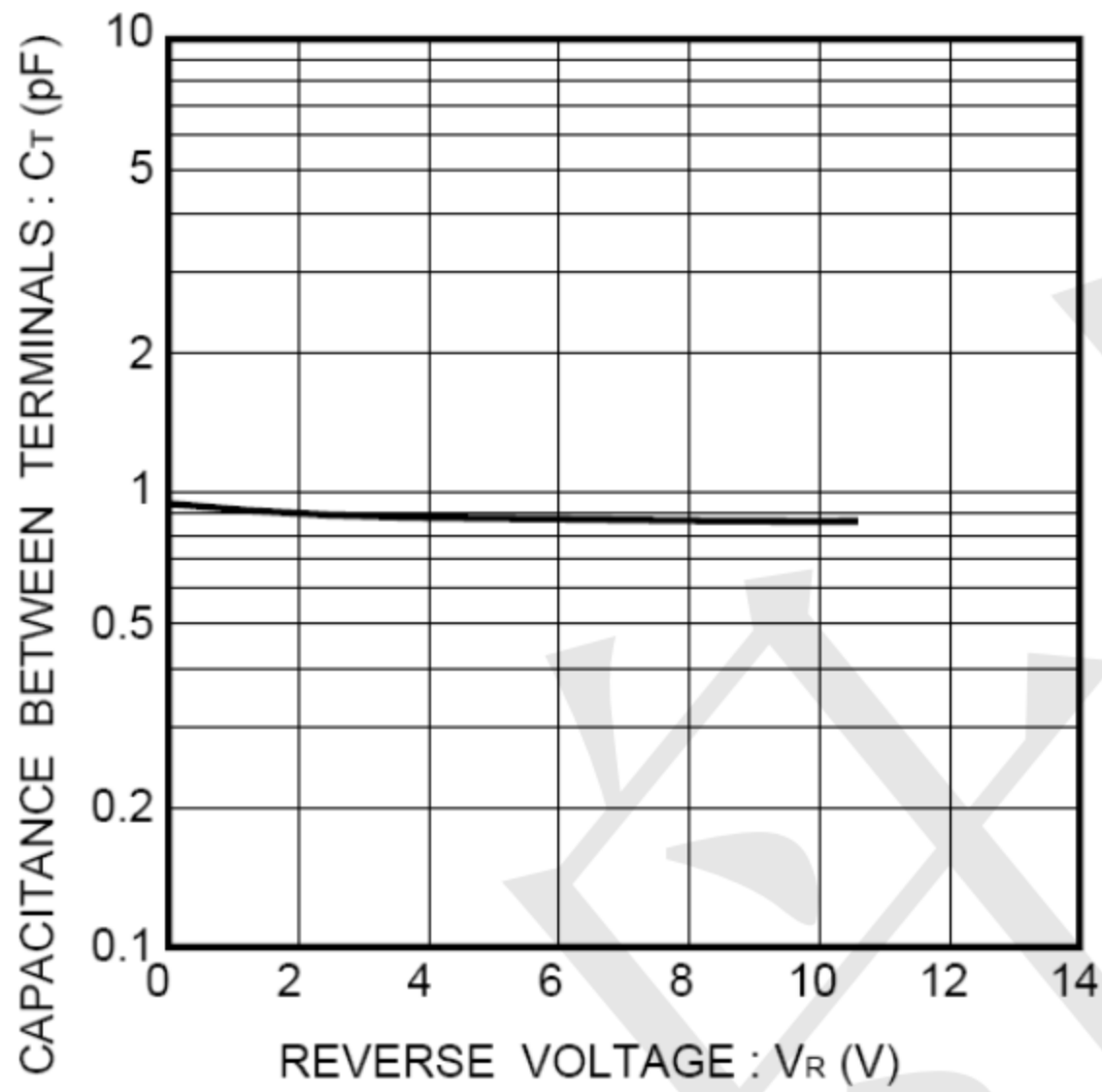


Fig.4 Reverse Recovery Time vs. Forward Current

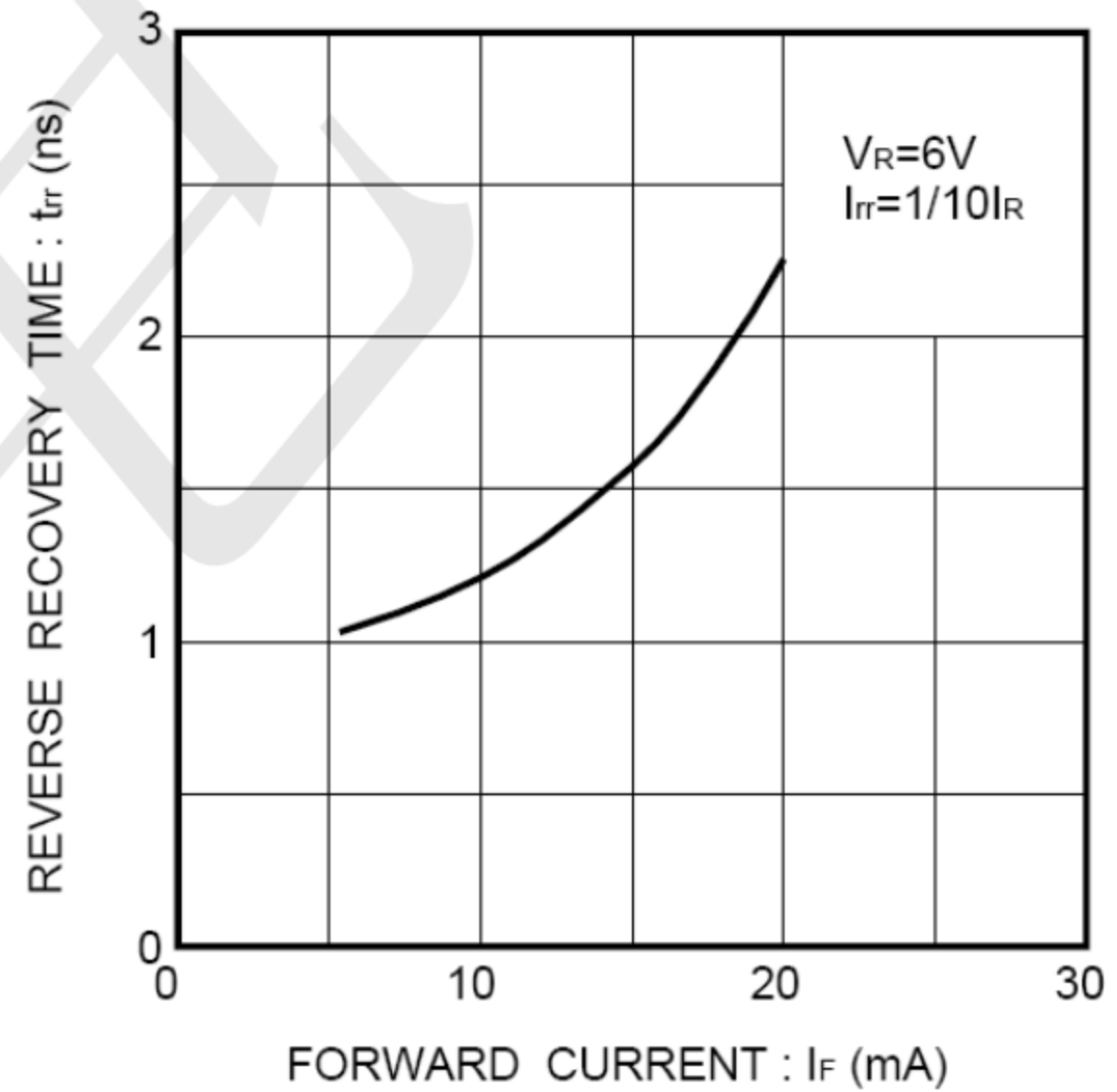


Fig.5 Surge Current Characteristics

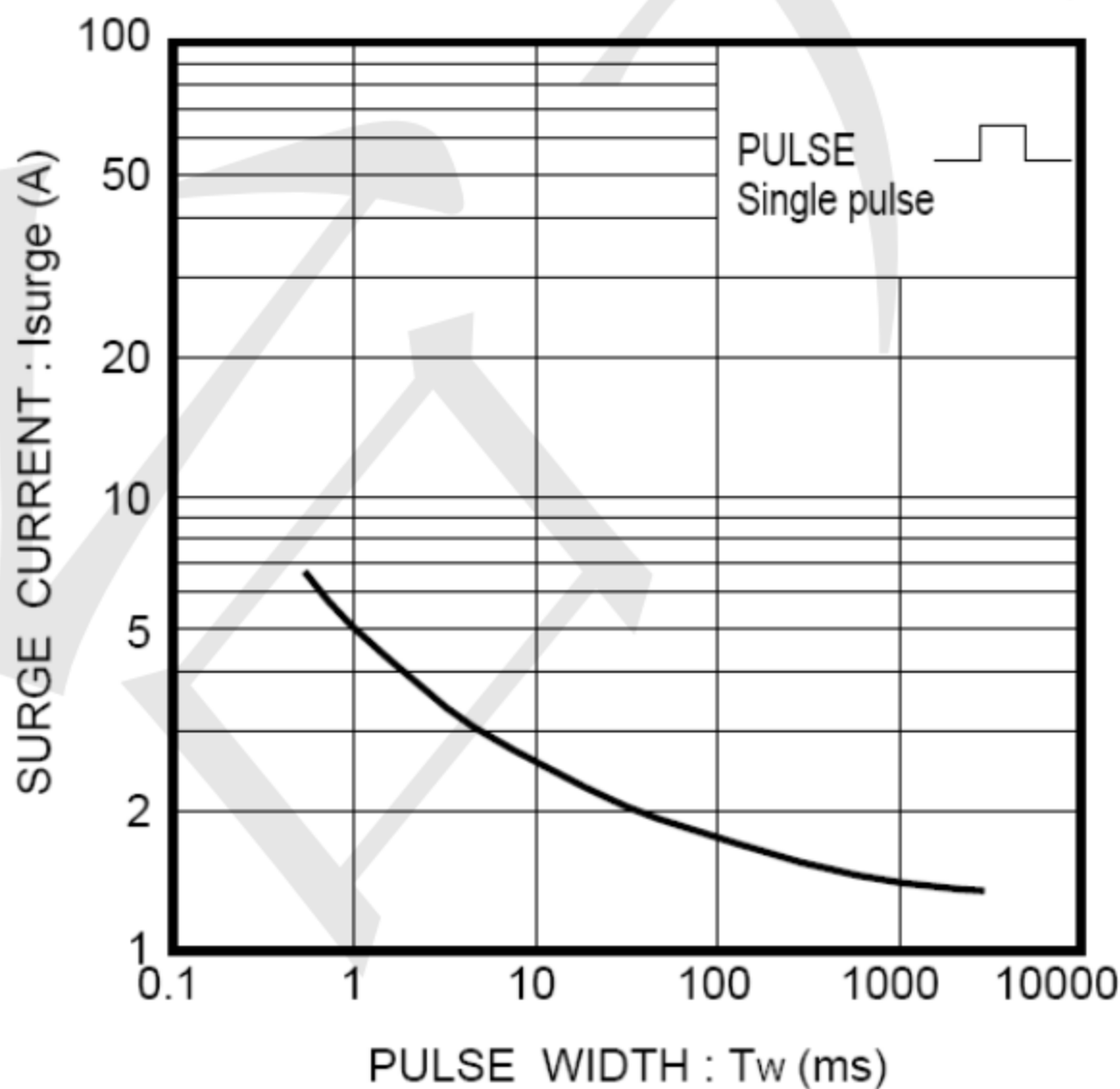
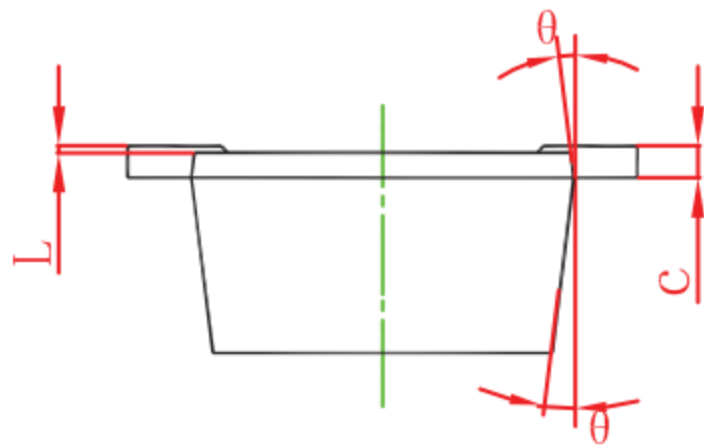
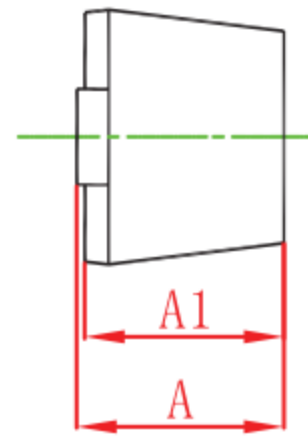
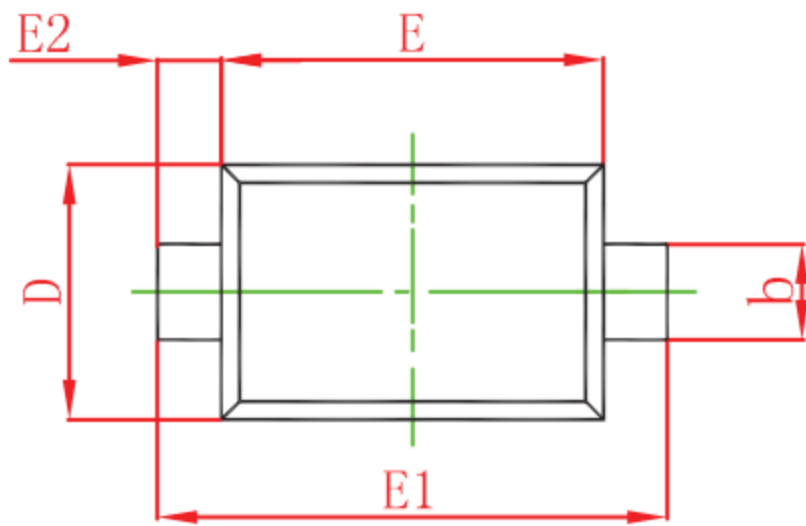


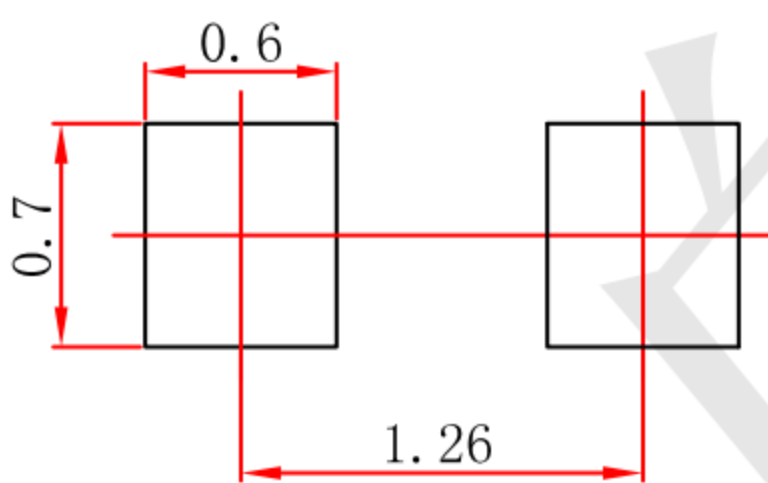
Fig.6 Reverse recovery time ( $t_{rr}$ ) measurement circuit

**Outline Drawing - SOD-723 (unit: mm)**



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.525	0.650	0.021	0.026
A1	0.515	0.580	0.020	0.023
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	0.550	0.650	0.022	0.026
E	0.900	1.100	0.035	0.043
E1	1.300	1.500	0.051	0.059
E2	0.200 REF		0.008 REF	
L	0.010	0.070	0.001	0.003
θ	7° REF		7° REF	

**Mounting Pad Layout-SOD723 (unit: mm)**



- Note:
1. Controlling dimension: in millimeters.
  2. General tolerance:  $\pm 0.05$ mm.
  3. The pad layout is for reference purposes only.

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