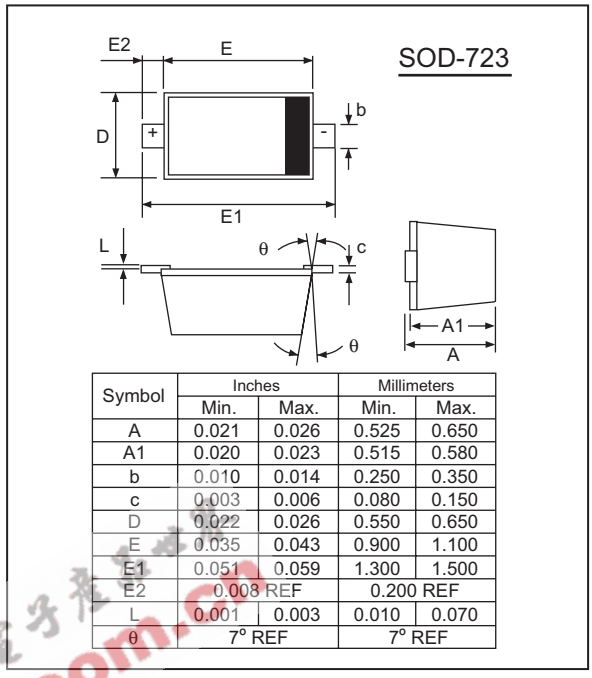
SMD Switching Diode

COMCHIP
SMD DIODE SPECIALIST

1SS400G-G (RoHS Device)

Reverse Voltage: 80 Volts
Forward Current: 100 mA



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

Features:

- Small Surface Mounting Type
- High Speed
- High Reliability with High Surge Current Handling Capability.

Mechanical Data:

- Case: Molded plastic SOD-723
- Terminals: Solderable per MIL-STD-750, Method 2026.1.
- Polarity: Indicated by cathode band.
- Mounting position: Any.
- Marking: 7

Maximum Ratings (at T_A=25ºC unless otherwise specified)

Parameter	Symbol	Limits	Unit
DC reverse voltage	V_R	80	V
Mean rectifying current	I_O	100	mA
Peak forward current	I_{FM}	225	A
Junction temperature	T_J	125	ºC
Storage temperature	T_{stg}	-55~+125	ºC
Peak reverse voltage	V_{RM}	90	V
Surge current T_p=1S	I_{surge}	500	mA

Electrical Ratings (at T_A=25ºC unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F			1.2	V	I_F=100mA
Reverse current	I_R			0.1	μA	V_R=80V
Capacitance between terminals	C_T			3.0	pF	V_R=0.5V, f=1MHz
Reverse recovery time	T_{rr}			4.0	nS	V_R=6V, I_F=10mA, R_L=100Ω

"-G" suffix designated RoHS compliant version

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Rating and Characteristic Curves

Fig. 1 Forward characteristics

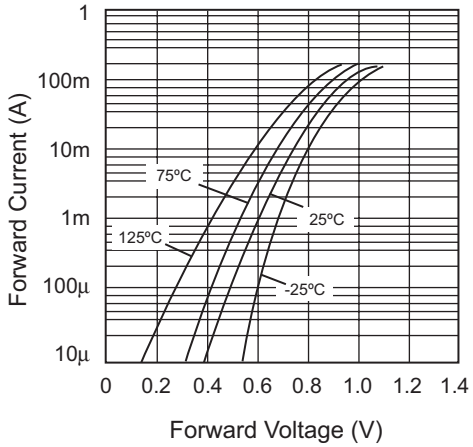


Fig. 2 Capacitiance between terminals

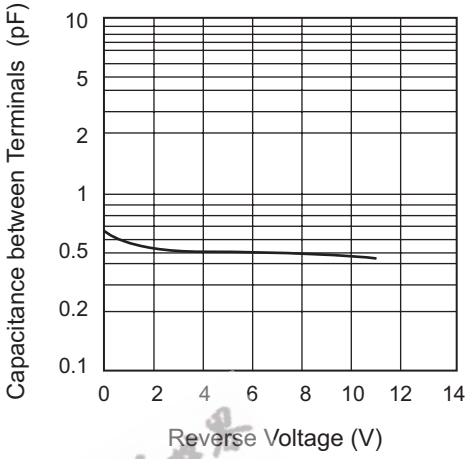


Fig. 3 Reverse characteristics

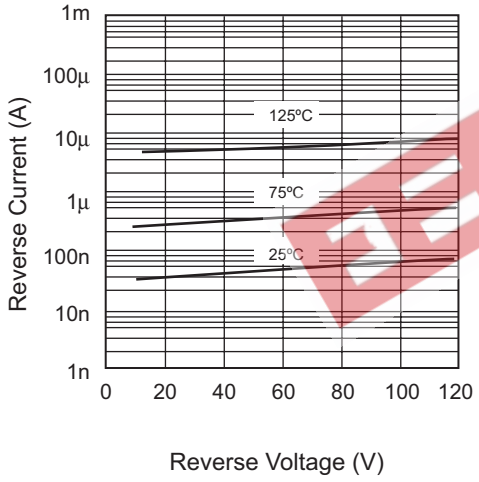


Fig. 4 Surge current charavteristics

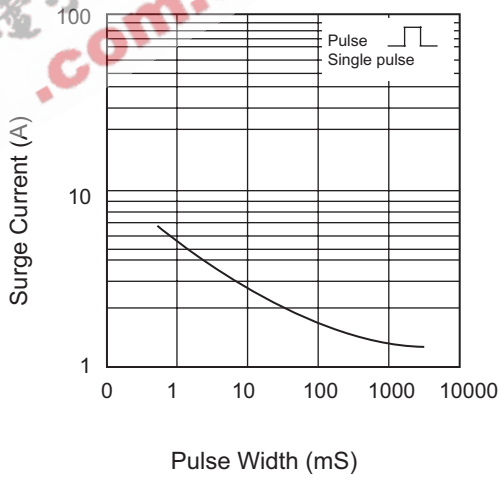


Fig. 5 Reverse recovery time characteristics

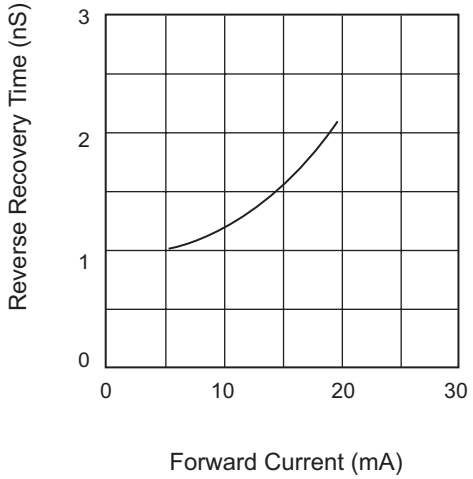
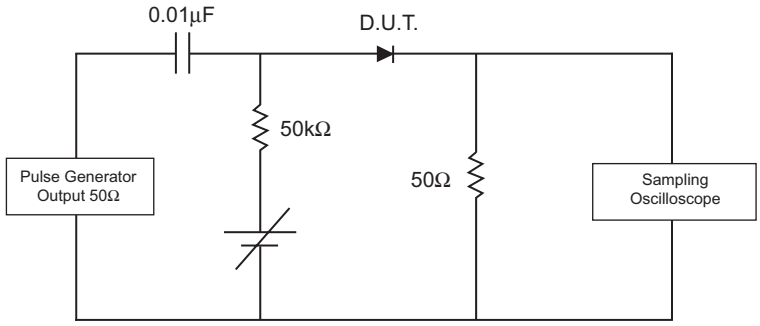


Fig. 6 Reverse recovery time (t_{rr}) measurement circuit



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