

Features

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



SOD-723 top view



Schematic diagram



Marking and pin assignment



Halogen-Free

Maximum Ratings($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	90	V
V_R	DC Blocking Voltage	80	V
I_{FM}	Forward Continuous Current	225	mA
I_O	Average Rectified Output Current	100	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	2	A
P_D	Power Dissipation	100	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	1250	$^{\circ}\text{C/W}$
T_J, T_{STG}	Operating and Storage Temperature Range	-55~ +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

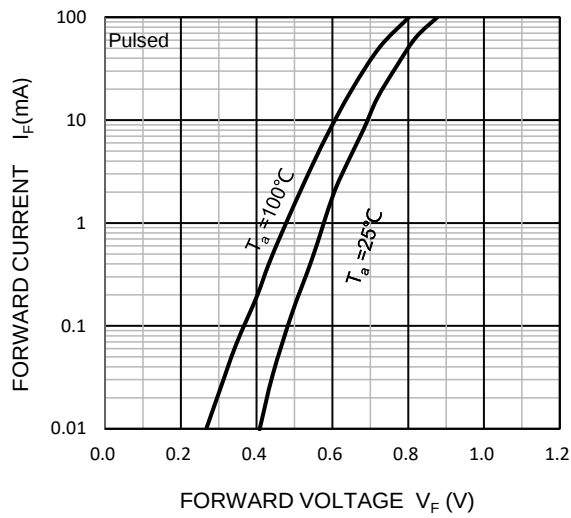
Symbol	Parameter	Condition	Min	Typ	Max	Unit
I_R	Reverse current	$V_R=80\text{V}$	--	--	0.1	μA
V_F	Forward voltage	$I_F=100\text{mA}$	--	--	1.2	V
C_T	Capacitance between terminals	$V_R=0.5\text{V}, f=1\text{MHz}$	--	--	3	pF
t_{rr}	Reverse recovery time	$V_R=6\text{V}, I_F=10\text{mA}, R_L=100\Omega$	--	--	4	ns

Ordering Information (Example)

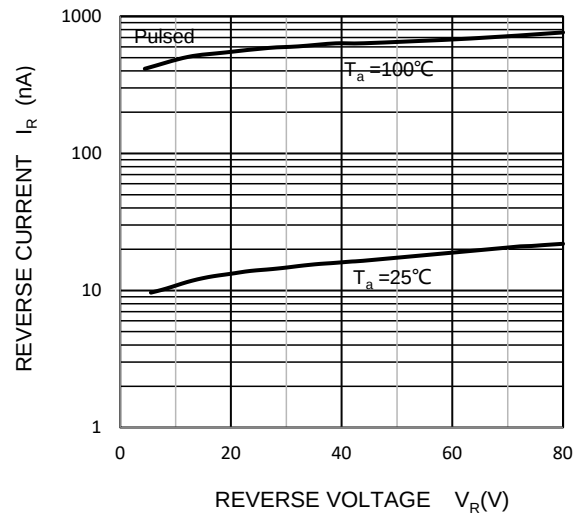
Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
1SS400G	SOD-723	7	8,000	120,000	480,000	7"reel

Typical Operating Characteristics

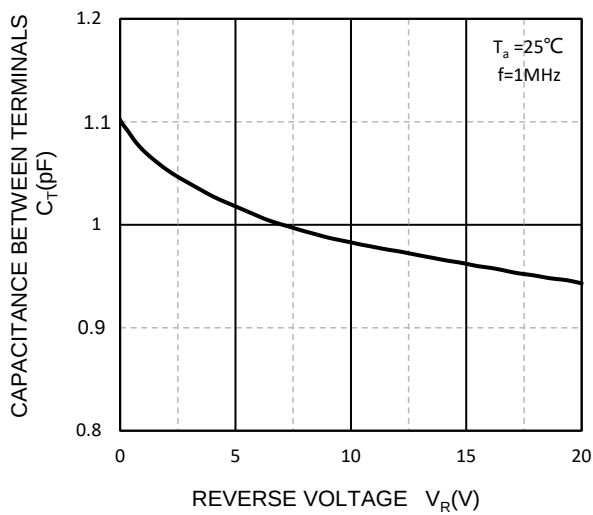
Forward Characteristics



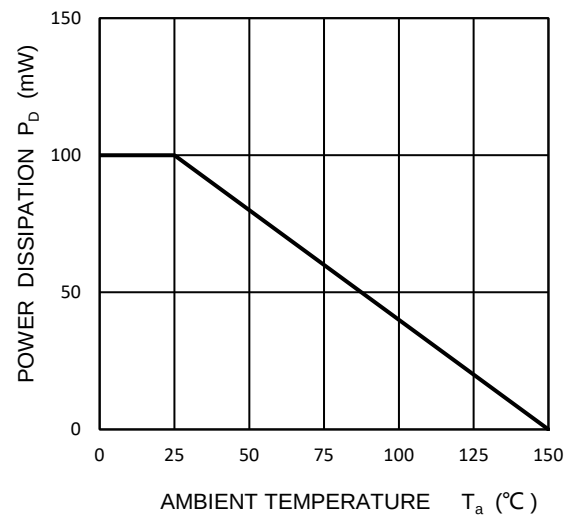
Reverse Characteristics



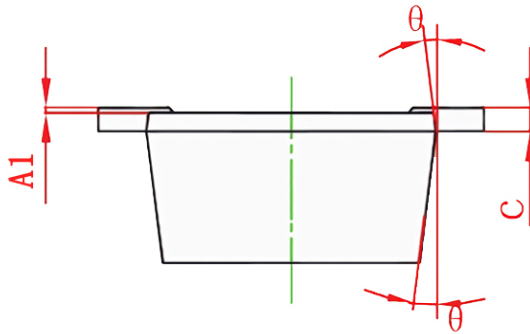
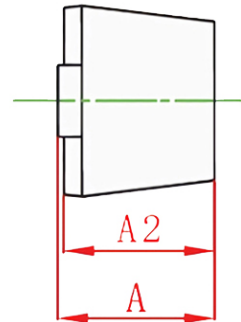
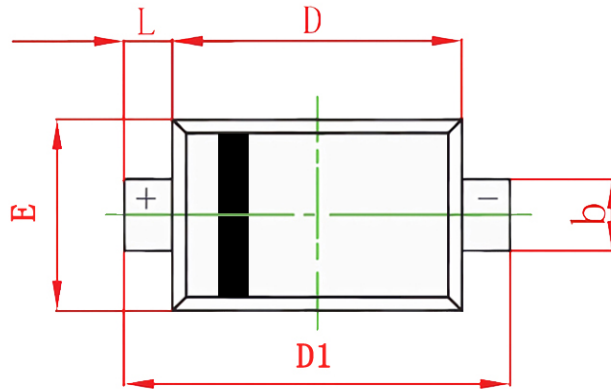
Capacitance Characteristics



Power Derating Curve



SOD-723 Package Outline Dimensions



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.525	0.650	0.021	0.026
A1	0.010	0.070	0.000	0.003
A2	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	0.900	1.100	0.035	0.043
D1	1.300	1.500	0.051	0.059
E	0.550	0.650	0.022	0.026
L	0.200 REF		0.008 REF	
θ	7°REF		7°REF	