

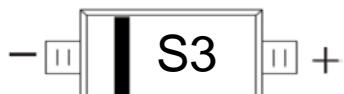
Features

- Small package
- Low forward voltage
- Low reverse current



SOD-523 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	45	V
V_R	DC Blocking Voltage	40	V
I_{FM}	Forward Continuous Current	300	mA
I_o	Continuous Forward Current	100	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	1000	mA
P_D	Power Dissipation	150	mW
T_J	Operating Junction Temperature Range	-40~ +125	°C
T_{STG}	Operating and Storage Temperature Range	-55~ +150	°C

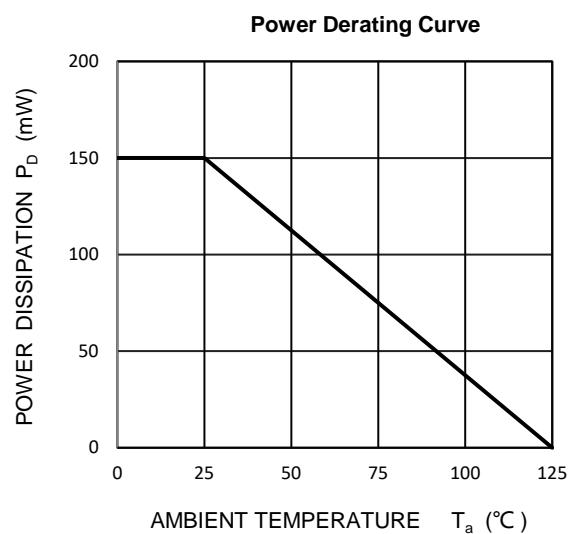
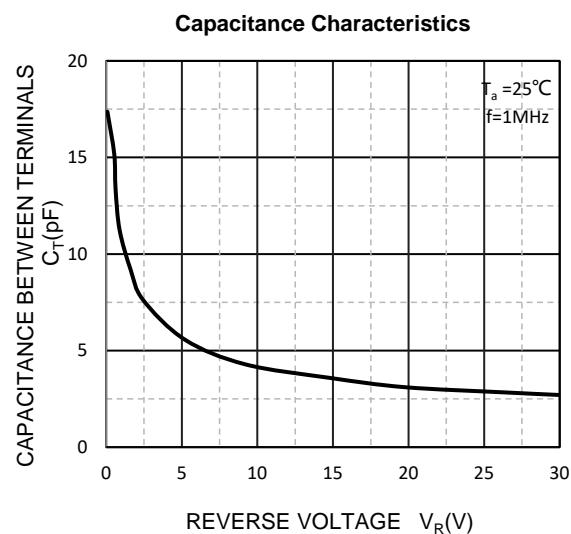
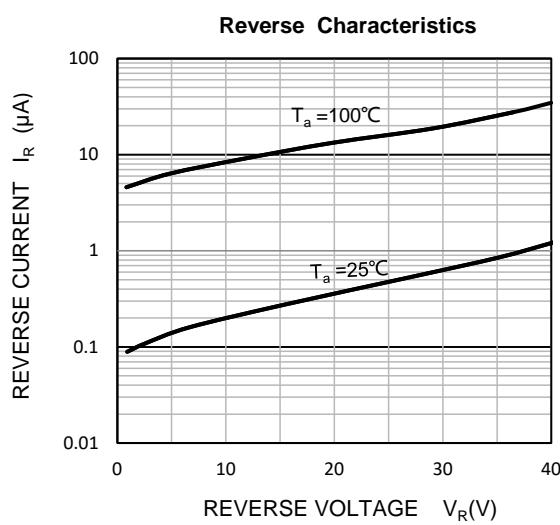
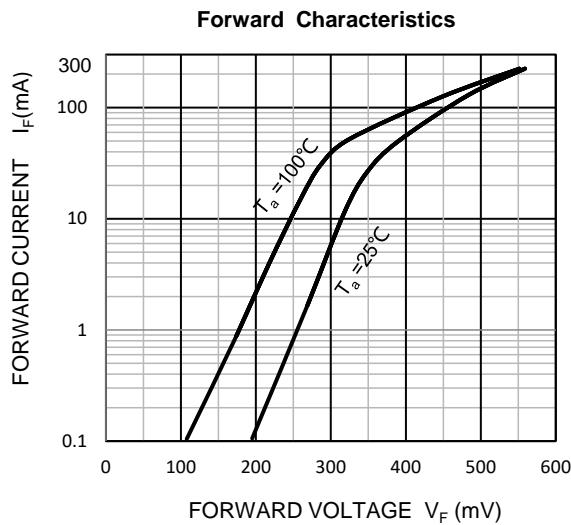
ELECTRICAL CHARACTERISTICS($T_a=25^\circ\text{C}$ unless otherwise specified)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
I_R	Reverse current	$V_R=10\text{V}$	--	--	5	µA
V_{F1}	Forward voltage	$I_F=1\text{mA}$	--	0.28	--	V
V_{F2}		$I_F=10\text{mA}$	--	0.36	--	
V_{F3}		$I_F=50\text{mA}$	--	0.54	0.6	
C_T	Capacitance between terminals	$V_R=0, f=1\text{MHz}$	--	18	25	pF

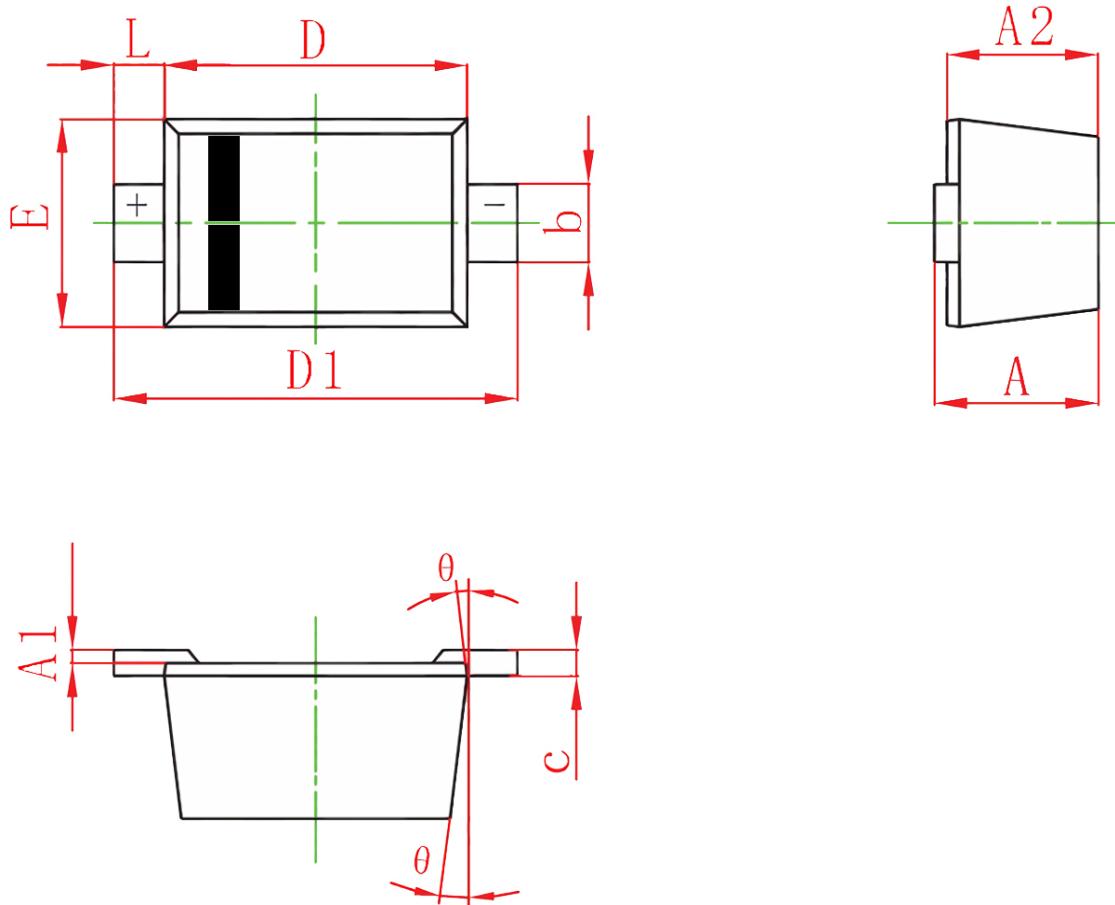
Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
1SS388	SOD-523	S3	3,000	45,000	180,000	7" reel

Typical Operating Characteristics



SOD-523 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.510	0.770	0.020	0.030
A1	0.010	0.070	0.000	0.003
A2	0.500	0.700	0.020	0.028
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.100	1.300	0.043	0.051
D1	1.500	1.700	0.059	0.067
E	0.750	0.850	0.030	0.033
L	0.200 REF		0.008 REF	
θ	7°REF		7°REF	