

Features

- Fast Switching Speed.
- High Conductance.
- For General Purpose Switching Applications.
- Surface Mount Package Ideally Suited for Automatic Insertion.



SOD-523



Equivalent Circuit

Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$)

Symbol	Parameter	Value	Unit
V_{RM}	Non-repetitive Peak Reverse Voltage Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	100	V
V_{RRM}			
V_{RWM}			
V_R			
$V_{R(RMS)}$	RMS Reverse Voltage	71	V
I_O	Average Rectified Output Current	150	mA
I_{FM}	Forward Continuous Current	300	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	2.0	A
P_d	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	600	$^{\circ}\text{C/W}$
T_J	Operation Junction Temperature Range	$-40\sim+125$	$^{\circ}\text{C}$
T_{STG}	Storage Temperature Range	$-55\sim+150$	$^{\circ}\text{C}$

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

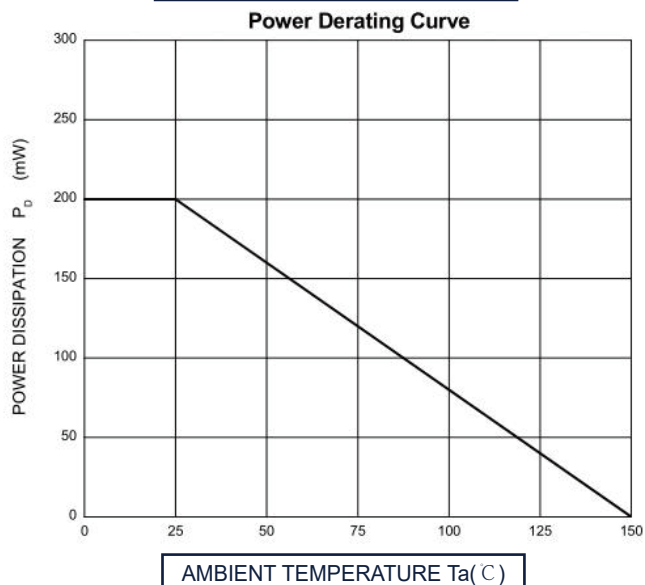
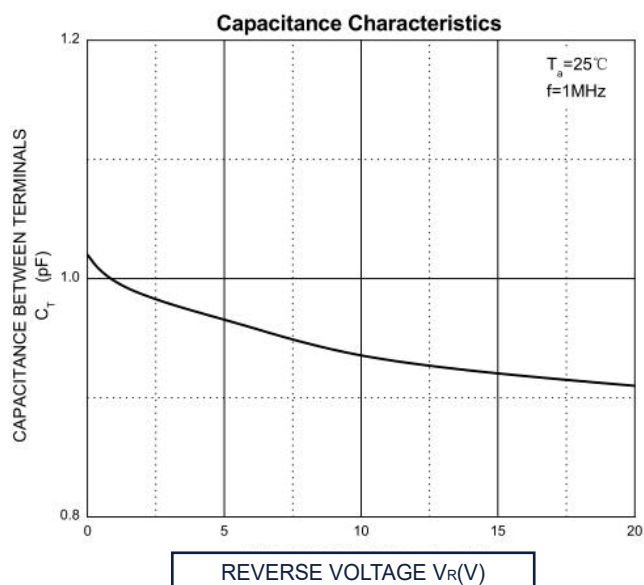
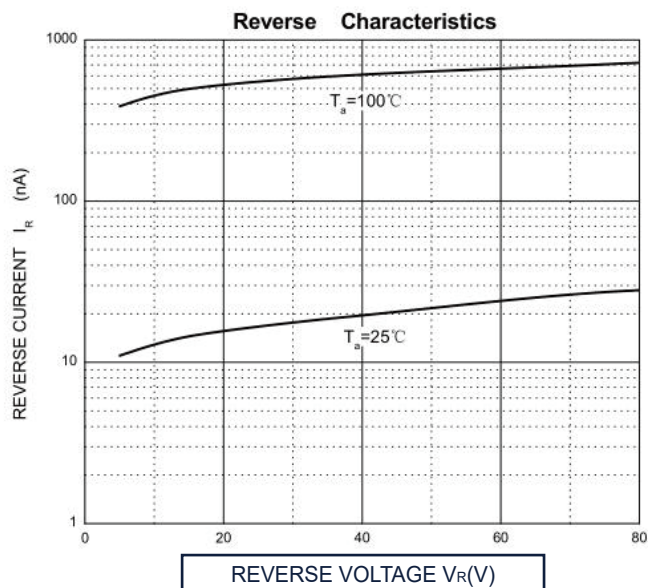
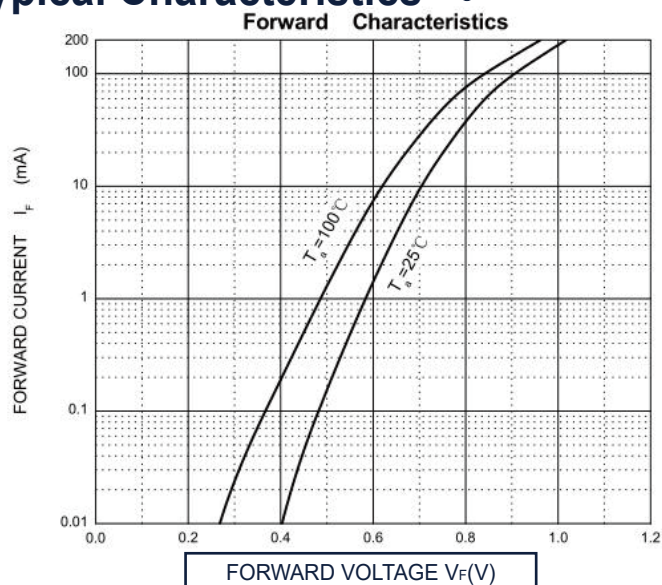
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	$I_R=100\mu\text{A}$	100			V
I_R	Reverse voltage leakage current	$V_R=75\text{V}$			1	μA
		$V_R=20\text{V}$			25	nA
V_F	Forward voltage	$I_F=1\text{mA}$			0.715	V
		$I_F=10\text{mA}$			0.855	V
		$I_F=50\text{mA}$			1.0	V
		$I_F=150\text{mA}$			1.25	V
C_D	Diode capacitance	$V_R=0\text{V}, f=1.0\text{MHz}$			2	pF
t_{rr}	Reverse recovery time	$I_F=I_R=10\text{mA}, I_{rr}=0.1I_{IR}, R_L=100\Omega$			4	nS

Ordering information

Product ID	Pack	Naming rule	Marking	Qty(PCS)
1SS400	SOD-523	1SS400 产品名称 product name	A	3000

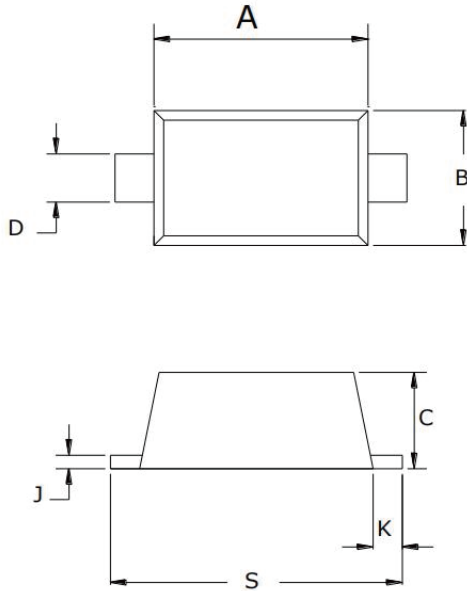


Typical Characteristics



Package Outline Dimensions

SOD523



SYMBOL	MILLIMETERS	
	MIN	MAX
A	1.10	1.30
B	0.70	0.90
C	0.50	0.70
D	0.25	0.35
J	0.07	0.20
K	0.15	0.25
S	1.50	1.70

Soldering Footprint (mm)

