

Features

- Low Forward Voltage Drop.
- Guard Ring Construction for Transient Protection.
- Negligible Reverse Recovery Time.
- Low Reverse Capacitance.



SOD-523



Equivalent Circuit

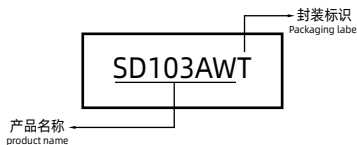
Absolute Maximum Ratings(T_A=25℃)

Symbol	Parameter	Value	Unit
V _{RM}	Non-repetitive Peak Reverse Voltage Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	40	V
V _{RRM}			
V _{RWM}			
V _R			
V _{R(RMS)}	RMS Reverse Voltage	28	V
I _{FM}	Forward Continuous Current	350	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	2.0	A
P _d	Power Dissipation	200	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	500	℃/W
T _J	Operation Junction Temperature Range	-40~+125	℃
T _{STG}	Storage Temperature Range	-55~+150	℃

Electrical Characteristics (T_A=25℃ unless otherwise specified)

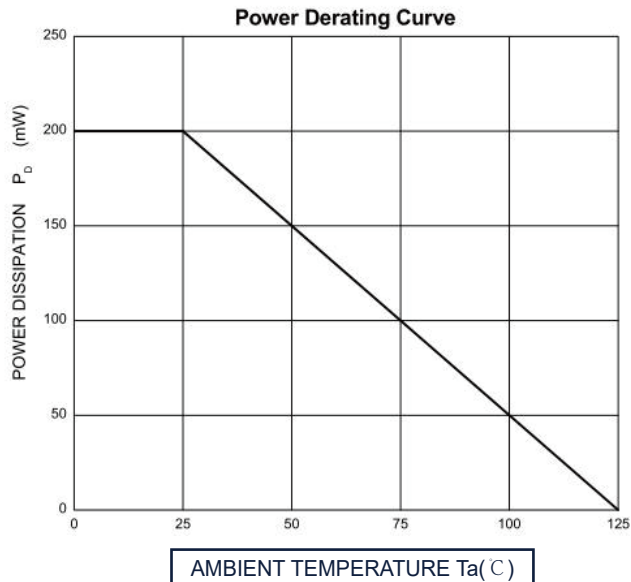
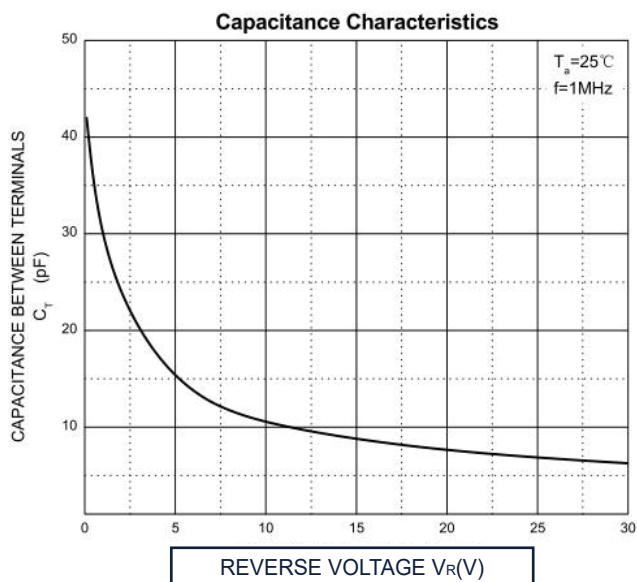
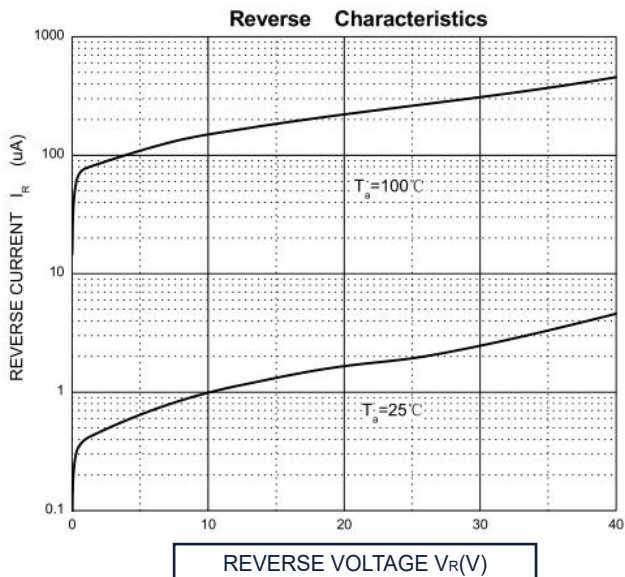
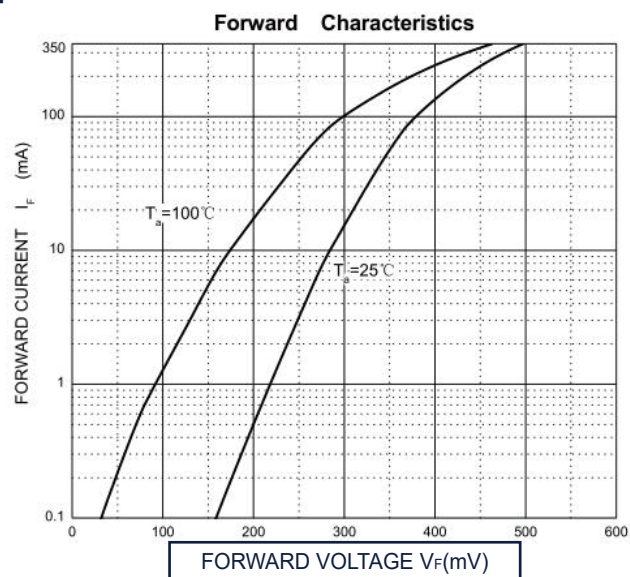
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V _(BR)	Reverse breakdown voltage	I _R =1mA	40			V
I _R	Reverse voltage leakage current	V _R =30V			5.0	μA
V _{F(1)}	Forward voltage(1)	I _F =20mA			0.37	V
V _{F(2)}	Forward voltage(2)	I _F =200mA			0.6	V
C _T	Capacitance between terminals	V _R =0V, f=1.0MHz			50	pF
t _{rr}	Reverse recovery time	I _F =I _R =200mA, I _{rr} =0.1X I _R , R _L =100Ω		10		nS

Ordering information

Product ID	Pack	Naming rule	Marking	Qty(PCS)
SD103AWT	SOD-523		S4	3000

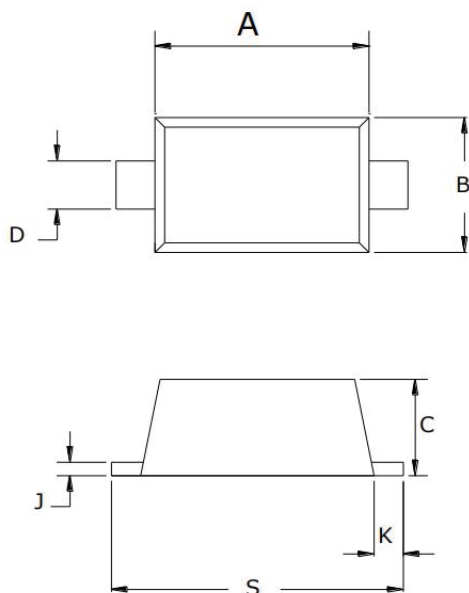


Typical Characteristics



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)

