

Features

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



SOD-323



Equivalent Circuit

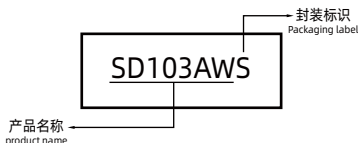
Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$)

Symbol	Parameter	Value	Unit
V_{RM}	Non-repetitive Peak Reverse Voltage Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	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
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	500	$^{\circ}\text{C}/\text{W}$
T_J	Operation Junction Temperature Range	-40~+125	$^{\circ}\text{C}$
T_{STG}	Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

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

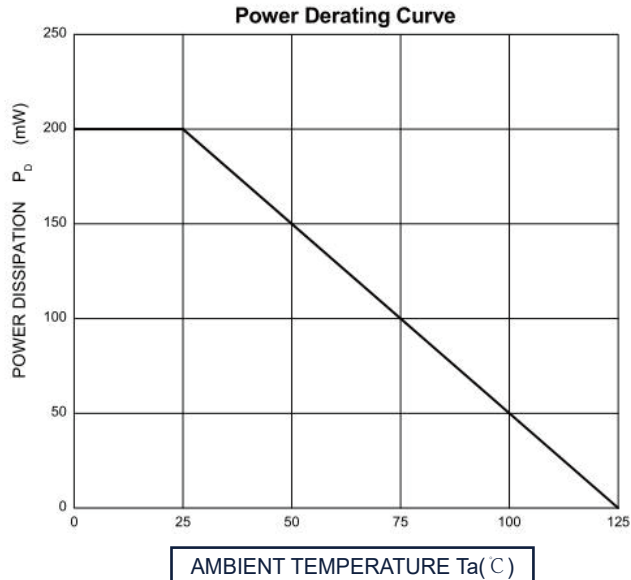
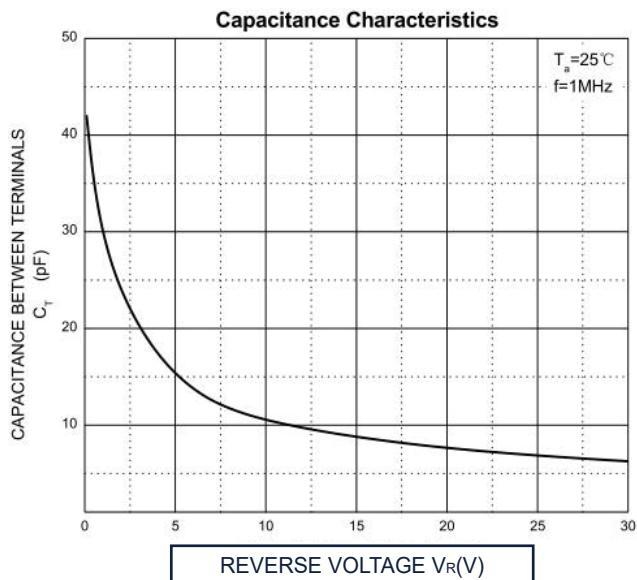
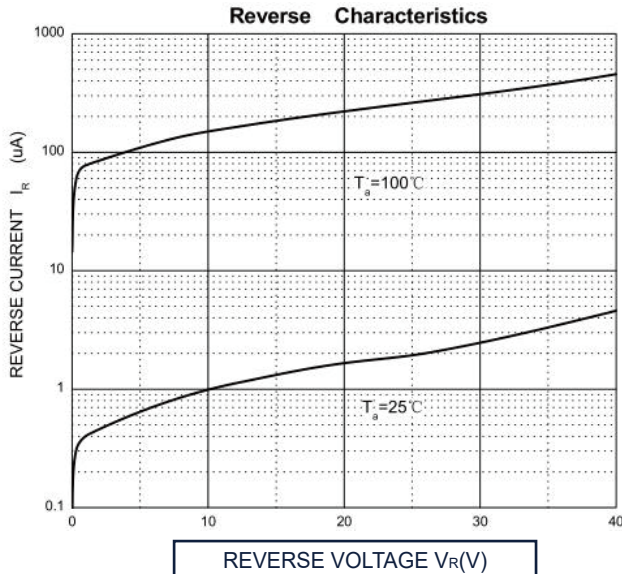
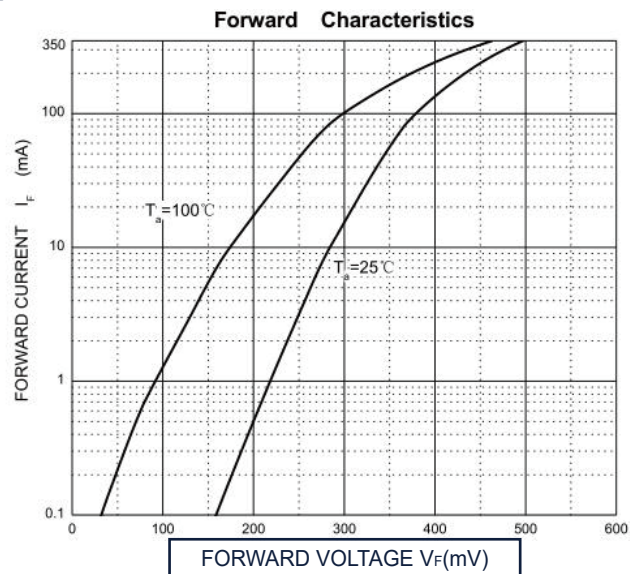
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	$I_R=1\text{mA}$	40			V
I_R	Reverse voltage leakage current	$V_R=30\text{V}$			5.0	μA
$V_{F(1)}$	Forward voltage(1)	$I_F=20\text{mA}$			0.37	V
$V_{F(2)}$	Forward voltage(2)	$I_F=200\text{mA}$			0.6	V
C_T	Capacitance between terminals	$V_R=0\text{V}$, $f=1.0\text{MHz}$			50	pF
t_{rr}	Reverse recovery time	$I_F=I_R=200\text{mA}$, $I_{rr}=0.1\times I_R$, $R_L=100\Omega$		10		nS

Ordering information

Product ID	Pack	Naming rule	Marking	Qty(PCS)
SD103AWS	SOD-323		S4	3000



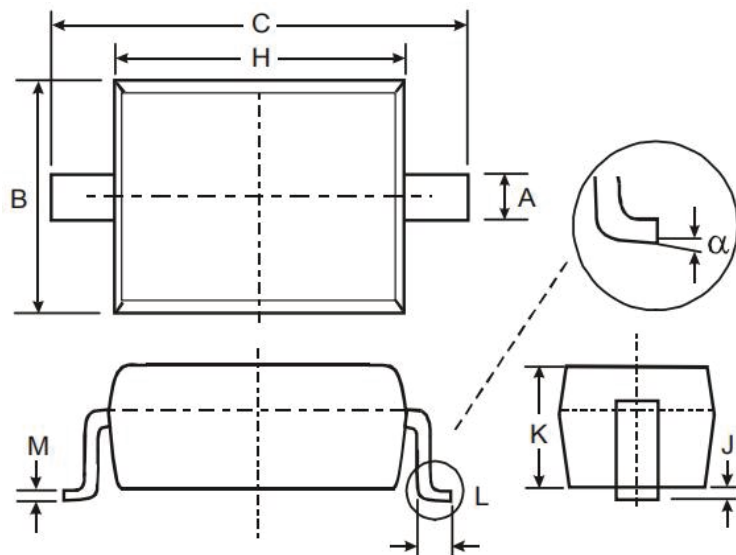
Typical Characteristics





Package Outline Dimensions

SOD323



SYMBOL	MILLIMETERS	
	MIN	MAX
A	0.25	0.35
B	1.20	1.40
C	2.40	2.70
H	1.60	1.80
J	0.01	0.15
K	0.80	1.00
L	0.20	0.40
M	0.08	0.15
α	0°	8°

Soldering Footprint (mm)

