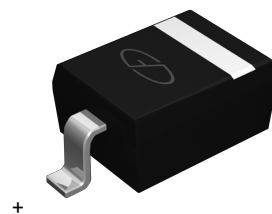


Features

- Low Forward Voltage Drop
- Guard Ring Die Construction for Transient Protection
- Ideal for Low Logic Level Applications
- Low Capacitance



SOD-323



Schematic Diagram

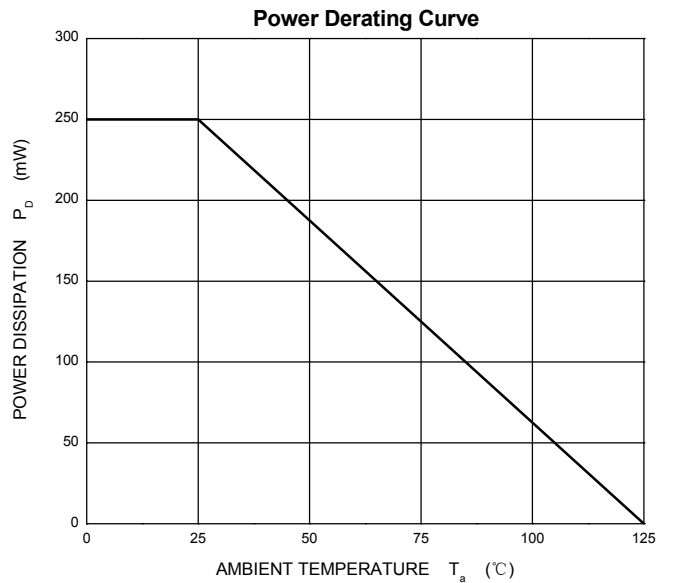
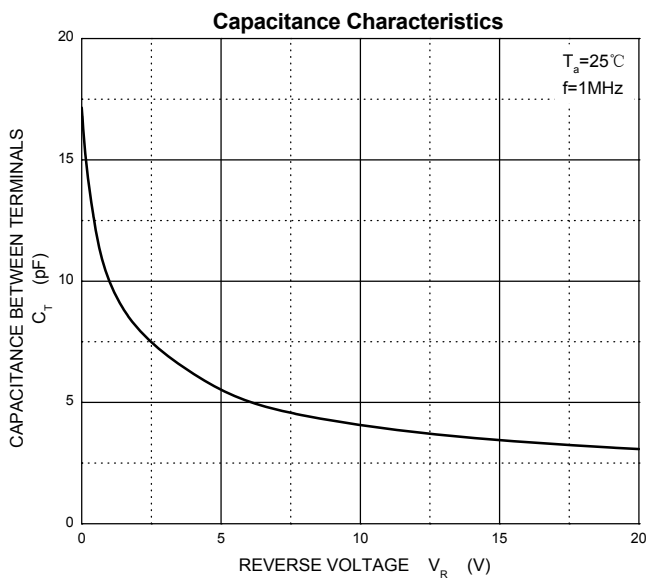
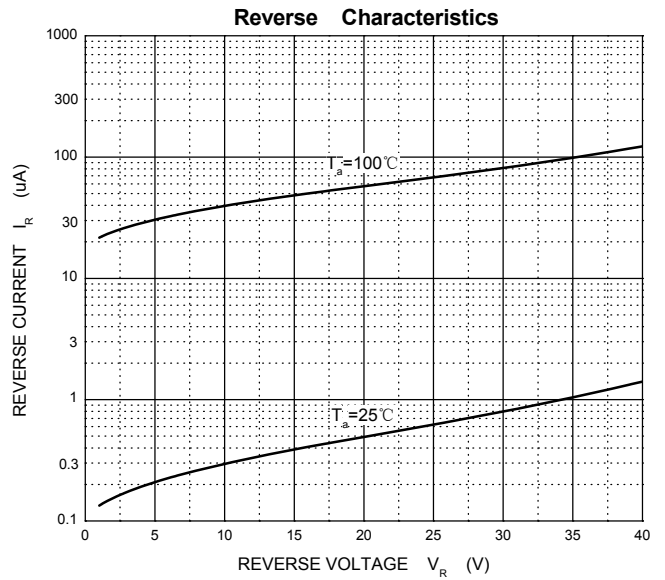
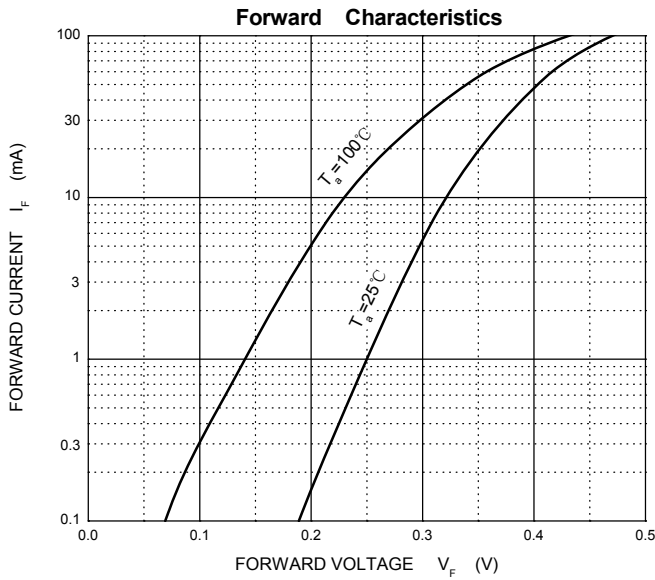
Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V _{RRM}	30	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
Forward Continuous Current	I _F	100	mA
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I _{FSM}	2	A
Power Dissipation T _C =25°C	P _D	250	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	400	°C/W
Junction Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-55 to +150	°C

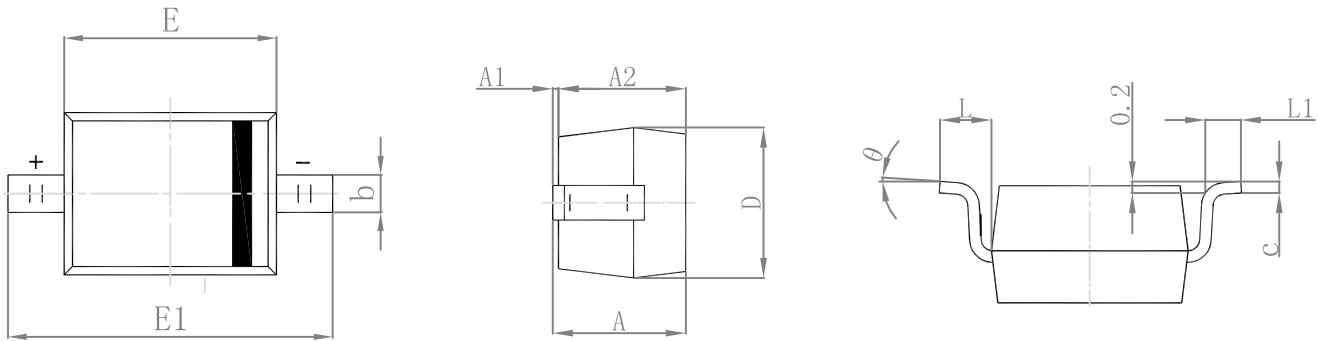
Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	I _R =100μA	V _R	30	-	-	V
Forward Voltage	I _F =2mA	V _F	-	300	-	mV
	I _F =15mA		-	360	-	
	I _F =50mA		-	430	550	
	I _F =100mA		-	500	800	
Reverse Current	V _R =25V	I _R	-	-	1	μA
Capacitance Between Terminals	V _R =10V, f=1MHz	C _T	-	7	-	pF

Typical Characteristics Curves

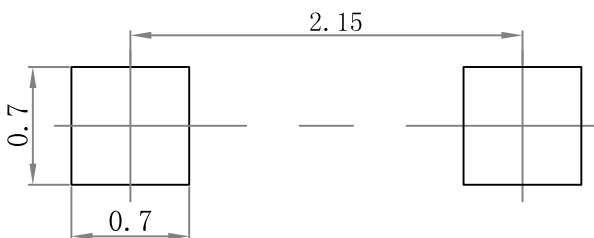


Package Outline Dimensions SOD-323



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L	0.475 REF.		0.019 REF.	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

Marking and Ordering Information

Device	Package	Marking	Quantity	HSF Status
GSD107WS	SOD-323	SG	3000pcs / Reel	RoHS Compliant