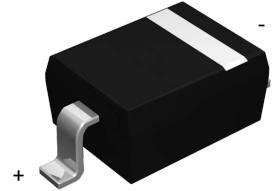


Features

- Low forward voltage drop
- Fast switching time
- Surface mount package ideally suited for automatic insertion

Mechanical Data

- SOD-323 small outline plastic package
- Polarity: Color band denotes cathode end
- Epoxy UL: 94V-0
- Mounting position: Any



SOD-323



Schematic Diagram

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

Parameters	Symbol	Value	Unit
DC Blocking Voltage	V _R	70	V
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}		
Forward Continuous Current	I _{FM}	70	mA
Non-Repetitive Peak Forward Surge Current @ t=8.3ms	I _{FSM}	100	mA
Power Dissipation	P _D	200	mW
Junction Temperature	T _J	125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C
Thermal Resistance from Junction to Ambient	R _{θJA}	625	°C/W

Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified)

Parameter	Symbols	Test Condition	Min	Max	Unit
Reverse Voltage	V _(BR)	I _R =10uA	70	-	V
Reverse Leakage Current	I _R	V _R =50V	-	100	nA
Forward Voltage	V _F	I _F =1mA	-	0.41	V
		I _F =15mA	-	1.0	
Reverse Recovery Time	T _{RR}	I _F =I _R =10mA, R _L =100Ω, I _{RR} =0.1 x I _R	-	5	nS
Capacitance	C _T	V _R =0V, f=1MHz	-	2	pF

Typical Characteristics Curves

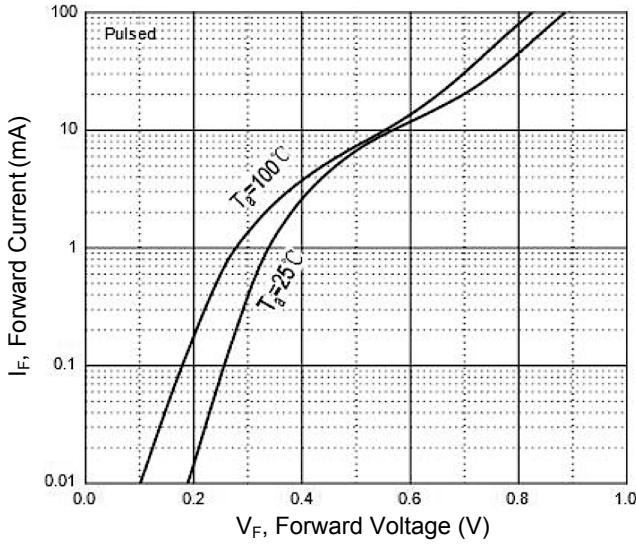


Figure 1. Forward Characteristics

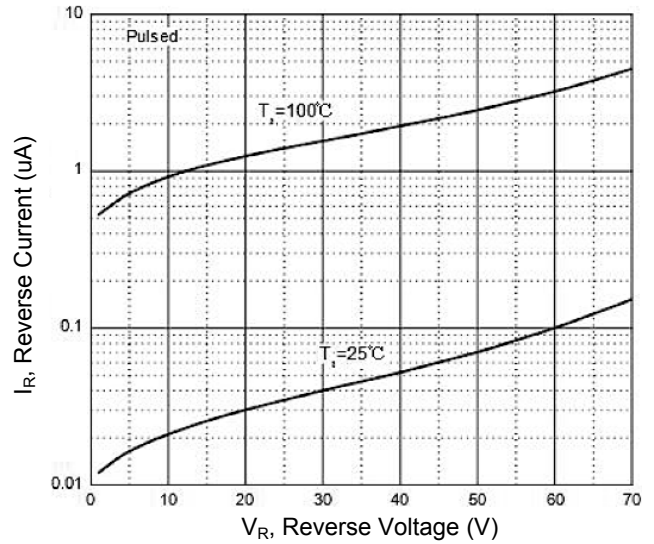


Figure 2. Reverse Characteristics

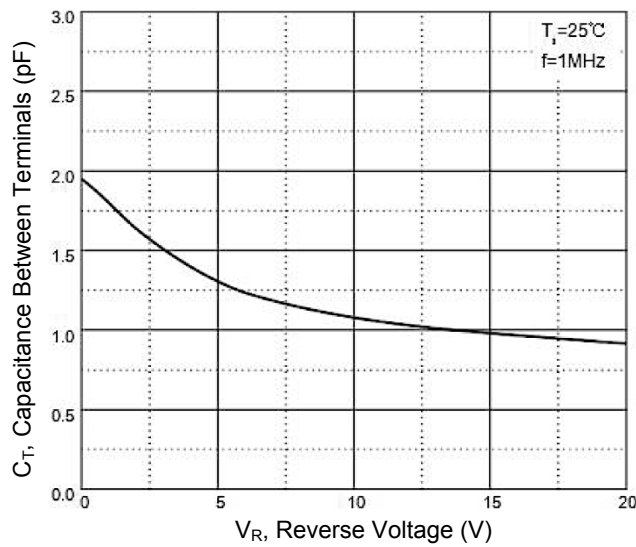


Figure 3. Capacitance Characteristics

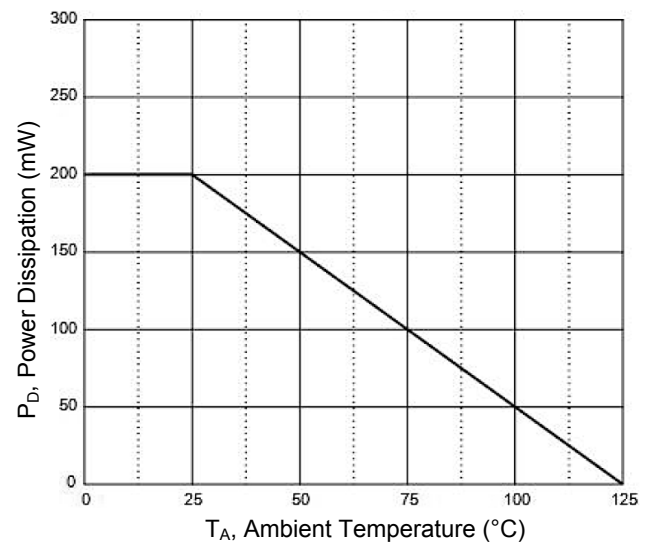
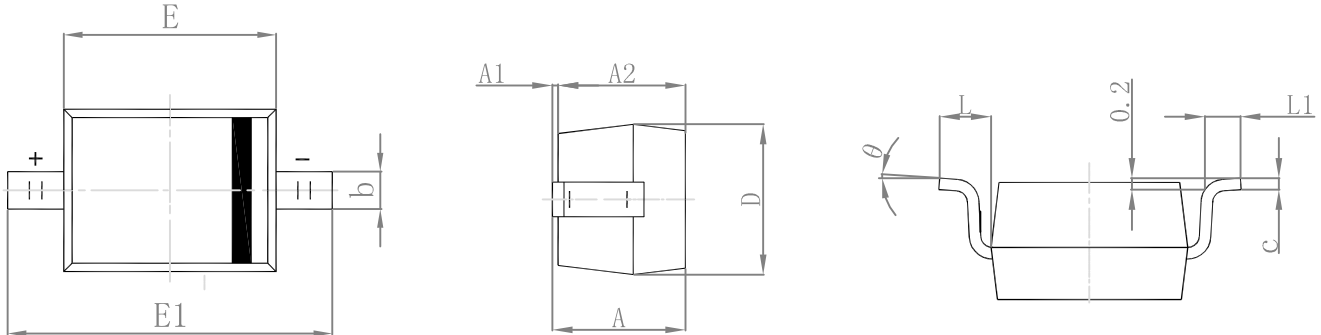


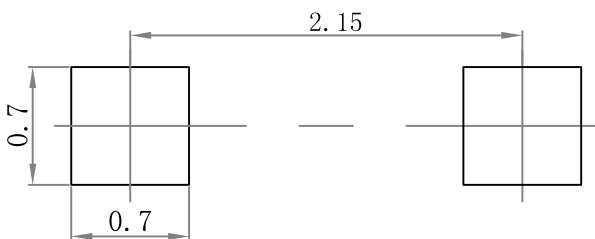
Figure 4. Power Derating Curve

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	2.500	2.700	0.098	0.106
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

Recommended Pad Layout



- Note:
1. Controlling dimension: in millimeters.
 2. General tolerance: ±0.05mm.
 3. The pad layout is for reference purposes only.

Order Information

Device	Package	Marking	Packaging	Quantity
GSBAS70WS	SOD-323	73	Tape & Reel	3,000 Pcs / Reel