



Features

- Very Small Plastic Package
- High Switching Speed



SOD-323



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAS316	SOD-323	A6	3000

Maxmim Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	85	V
V_R	DC Blocking Voltage	75	
I_O	Continuous Forward Current	250	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@t= 8.3 ms	2.0	A
P_D	Power Dissipation	250	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	500	°C/W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

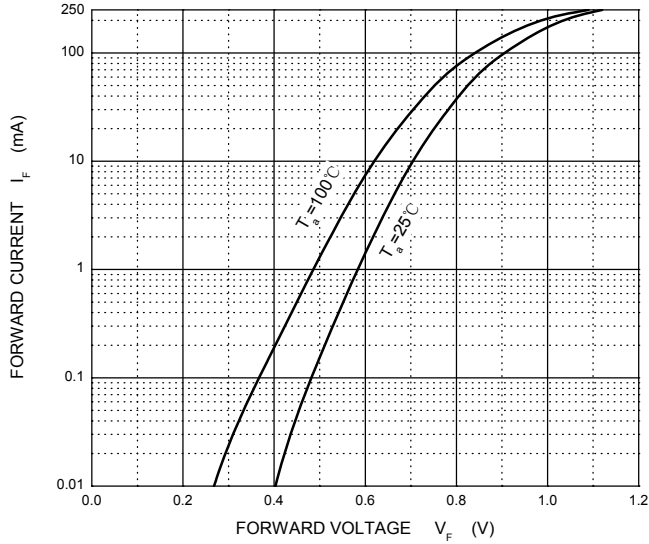
Electrcal Charcteristics (Ta=25 unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=100\mu A$	100			V
Reverse current	I_R	$V_R=25V$			30	nA
		$V_R=75V$			1	μA
Forward voltage	V_F	$I_F=1mA$			0.715	V
		$I_F=10mA$			0.855	
		$I_F=50mA$			1	
		$I_F=150mA$			1.25	
Total capacitance	C_{tot}	$V_R=0V, f=1MHz$			1.5	pF
Reverse recovery time	t_{rr}	$I_F= I_R=10mA, I_{rr}=0.1 \times I_R$			4	ns

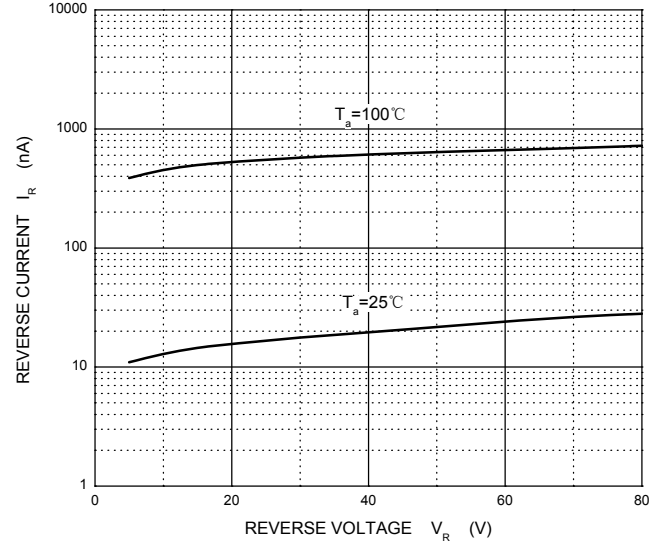


Typical Characteristics

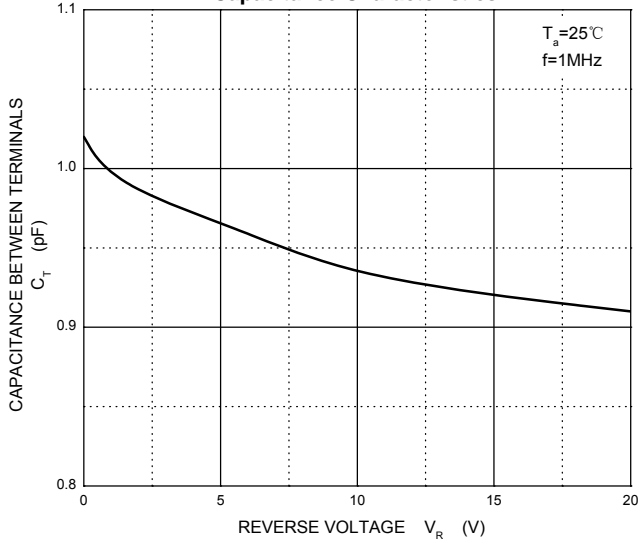
Forward Characteristics



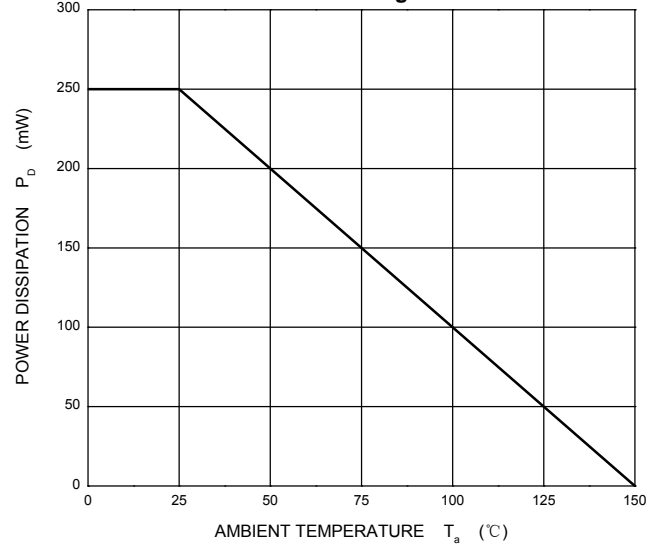
Reverse Characteristics



Capacitance Characteristics

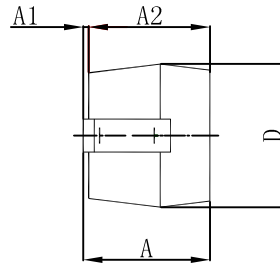
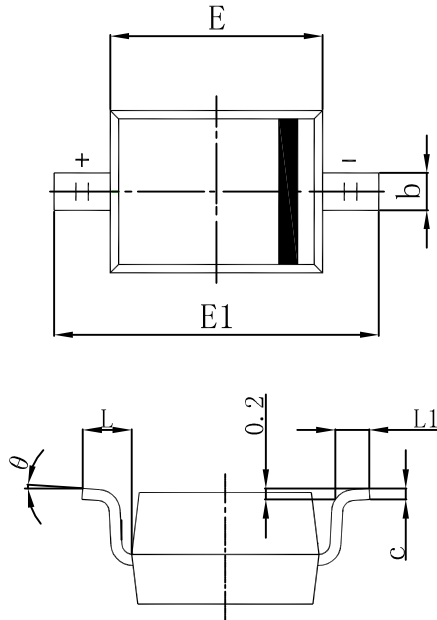


Power Derating Curve



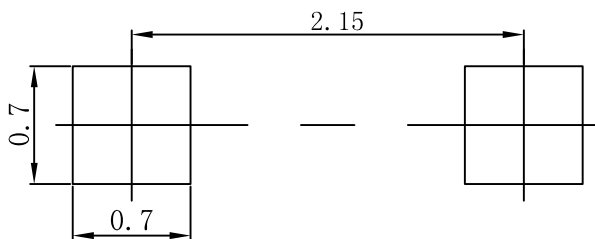


SOD-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A		1.100		0.043
A1	0.000	0.100	0.000	0.004
A2	0.800	1.000	0.031	0.039
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	2.750	0.098	0.108
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

SOD-323 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.



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