

Features

Fast Switching Speed:max.50nS.

Continuous Reverse Voltage:max.200V.

Low Leakage Current: 100nA at Room Temperature. Surface

Mount Package Ideally Suited for Automatic Insertion.



SOD-323



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAS321JX	SOD-323	A7	3000

Maxmim Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RM}	Non-repetitive Peak Reverse Voltage	250	V
V_{RRM}	Peak Repetitive Peak Reverse Voltage		
V_{RWM}	Working Peak Reverse Voltage	200	V
V_R	DC Blocking Voltage		
I _{FM}	Forward Continuous Current(Note 1)	250	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current@t=1µS	4.5	Α
I _{FRM}	Repetitive Peak Forward Current(Note 1)	1	Α
Pd	Power Dissipation(Note 1)	325	mW
R _{⊝JA}	Thermal Resistance From Junction To Ambient(Note 1)	385	°C/W
TJ	Operation Junction Temperature Range	-40~+150	$^{\circ}$ C
T _{STG}	Storage Temperature Range	-55~+150	$^{\circ}\!\mathbb{C}$

Electrical Charcteristics (Ta=25 unless otherwise noted)

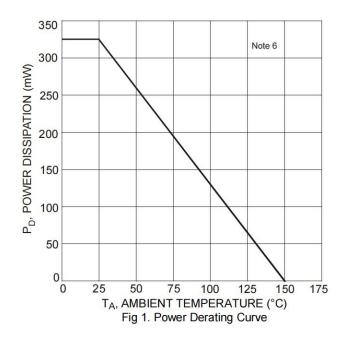
Symbol	Parameter	Test conditions	Min	Тур	Max	Unit
V _(BR)	Reverse breakdown voltage(Note 2)	I _R =100μA	250			V
I _R Reve	Reverse current(Note 2)	V _R =200V			100	nA
		V _R =200V,T _J =150℃			100	μA
V _F Forward	forward voltage	I _F =100mA			1.1	V
	Forward voltage	I _F =100mA			1.25	V
Ст	Capacitance Between Terminals	V _R =0V, f=1MHz		5		pF
t _{rr} Rev	Reverse recovery time	I _F =I _R =30mA			50	nS
		I_{rr} =0.1 XI_R , R_L =100 Ω				

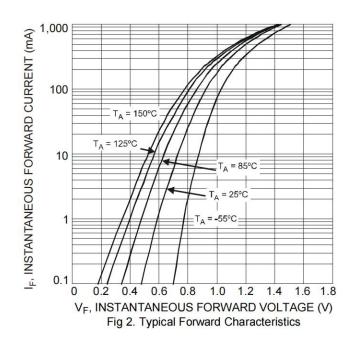
Notes: 1. Part mounted on FR-4 board with recommended pad layout, which can be found on our website at http://www.diodes.com.

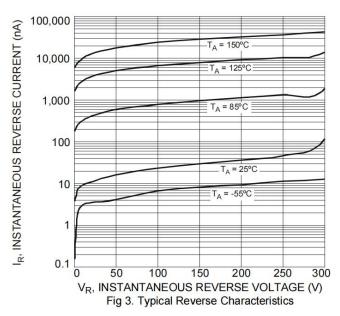
^{2.} Short duration pulse test used to minimize self-heating effect.

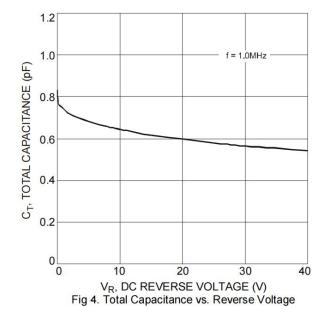


Typical Characteristics



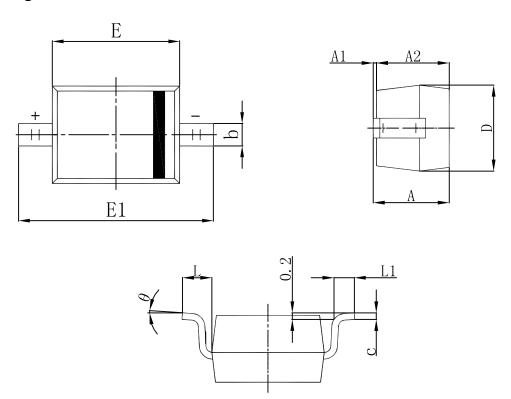








SOD-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α		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	
С	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°	



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