

DESCRIPTION

The BAS321 is available in SOD-323 Package.

FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited For Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

ORDERING INFORMATION

Package Type	Part Number		
SOD-323	BAS321		
Note	3,000pcs/Reel		
AiT provides all RoHS Compliant Products			

PIN DESCRIPTION





ABSOLUTE MAXIMUM RATINGS

T _A = 25°C		
VRRM, Repetitive Peak Reverse Voltage	250V	
V _R , DC Reverse Voltage	200V	
V _{RWM} , Working Peak Reverse Voltage	200V	
V _{R(RMS)} , RMS Reverse Voltage	141V	
I₀, Average Rectified Output Current	400mA	
A New Demetitive Deals Ferward Surrey Current	@t=1.0µs	2.5A
IFSM, Non-Repetitive Peak Forward Surge Current	@t=1.0s	0.5A
I _F , Peak Forward Current	200mA	
IFRM, Repetitive Peak Forward Surge Current	625mA	
P _D , Power Dissipation	200mW	
R _{0JA} , Thermal Resistance Junction to Ambient Air	625°C/W	
T _J , Junction Temperature	150°C	
T _{STG} , Storage Temperature Range	-65°C ~+150°C	

ELECTRICAL CHARACTERISTICS

$T_A = 25^{\circ}C$, unless otherwise noted

Parameter	Symbol	Conditions	Min	Тур.	Max	Unit
Forward Voltage	VF	I _F = 100mA	-	-	1.0	V
		I _F = 200mA	-	-	1.25	
Reverse Current	IR	V _R = 200V	-		100	μA
Capacitance between	Ст	V _R = 0, f = 1MHz	-	-	5	pF
terminals						
Reverse Recovery Time	trr	IF=I _R =30mA,		-	50	ns
		I_{rr} =0.1x I_R , RL=100 Ω				



TYPICAL CHARACTERISTICS

T_A = 25°C

Fig.1 Typical Forward Characteristics

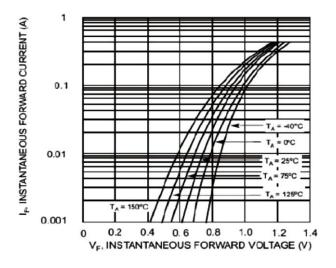


Fig.3 Typical Capacitance between terminals

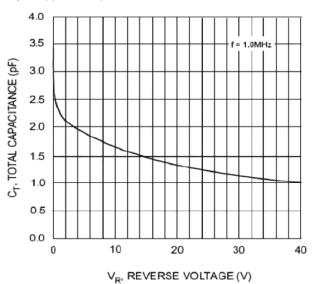


Fig.2 Typical Reverse Characteristics

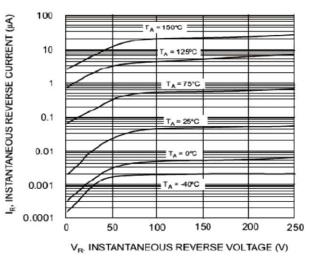
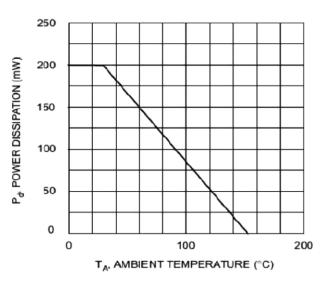


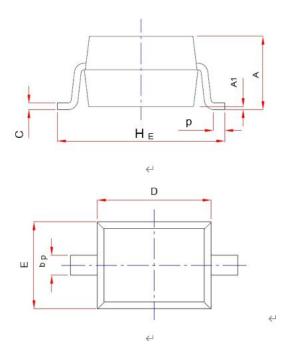
Fig.4 Power Derating Curve, Total Package





PACKAGE INFORMATION

Dimension in SOD-323 Package (Unit: mm)



Symbol	MIN.	MAX.		
А	0.900	1.200		
bp	0.250	0.400		
С	0.100 0.150			
D	1.600	1.800		
E	1.150	1.350		
HE	2.300	2.800		
A1	0.010	0.100		
р	0.200	0.250		



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