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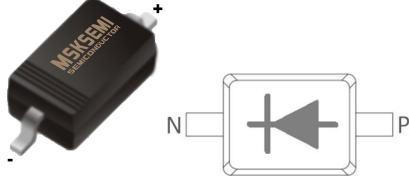

BAS321

Product specification

FEATURES

- FastSwitchingSpeed:max.50nS.
- ContinuousReverseVoltage:max.200V.
- LowLeakageCurrent:100nAatRoomTemperature.
- SurfaceMountPackageldeallySuitedforAutomaticInserntion.

Reference News

PACKAGE OUTLINE	MARKING
 <p>SOD-323</p>	

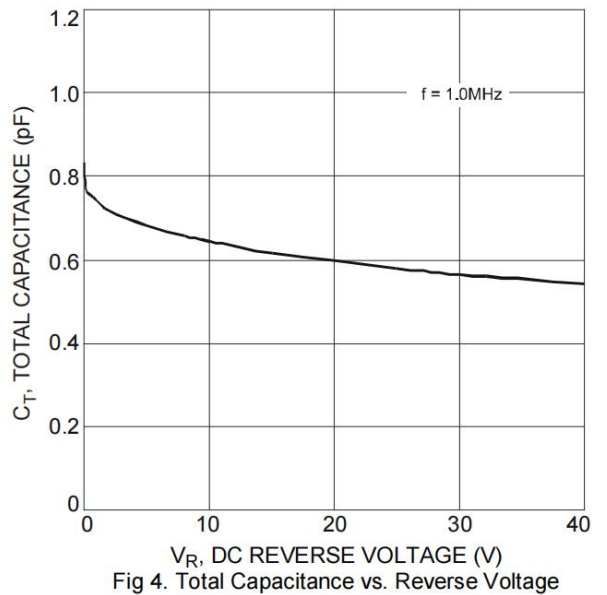
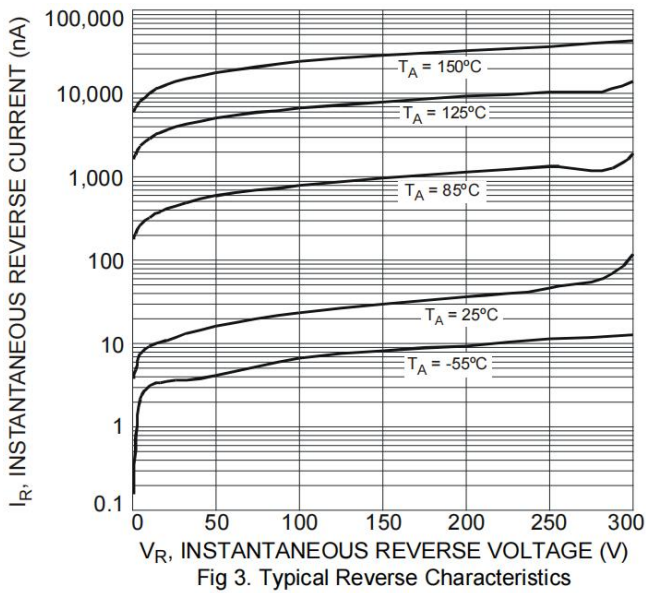
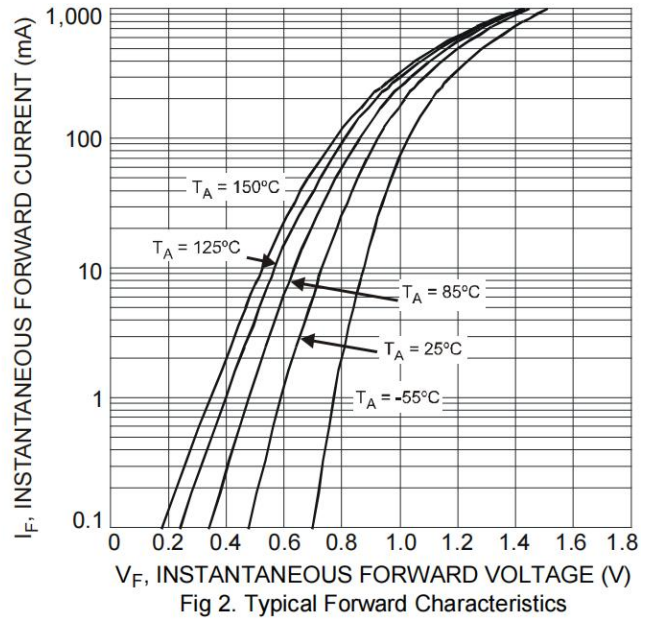
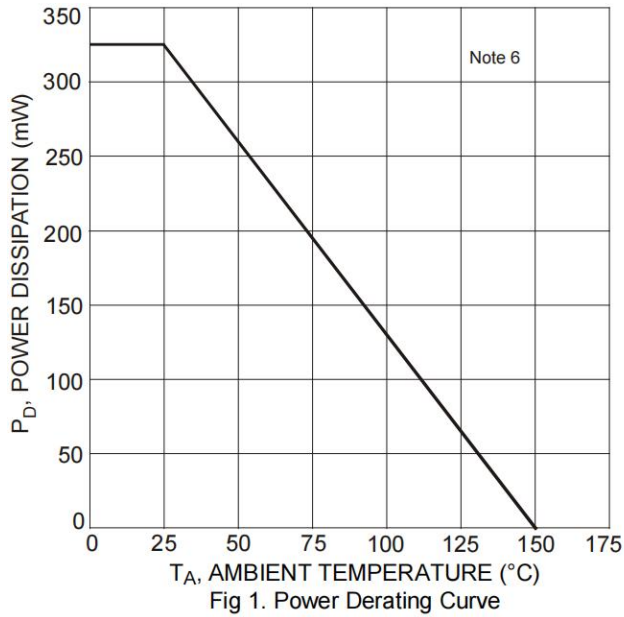
Absolute Maximum Ratings(Ta=25°C)

Symbol	Parameter	Value	Unit
V _{RM}	Non-repetitive Peak Reverse Voltage	250	V
V _{RRM}	Peak Repetitive Peak Reverse Voltage	200	V
V _{RWM}	Working Peak Reverse Voltage		
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	A
I _{FRM}	Repetitive Peak Forward Current(Note 1)	1	A
P _d	Power Dissipation(Note 1)	325	mW
R _{ΘJA}	Thermal Resistance From Junction To Ambient(Note 1)	385	°C/W
T _J	Operation Junction Temperature Range	-40~+150	°C
T _{STG}	Storage Temperature Range	-55~+150	°C

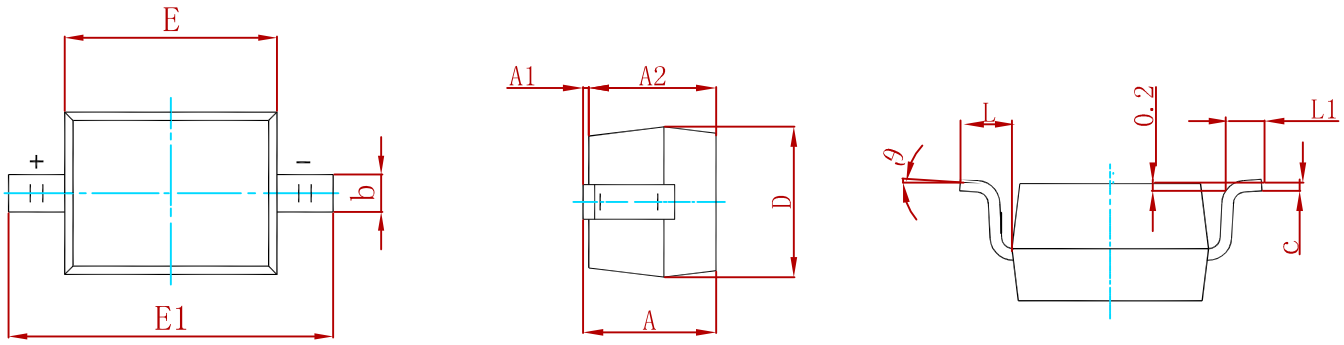
Electrical Characteristics (Ta=25°C unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V _(BR)	Reverse breakdown voltage(Note 2)	I _R =100μA	250			V
I _R	Reverse current(Note 2)	V _R =200V			100	nA
		V _R =200V, T _J =150°C			100	μA
V _F	Forward voltage	I _F =100mA			1.1	V
		I _F =100mA			1.25	
C _T	Capacitance Between Terminals	V _R =0V, f=1MHz		5		pF
t _{rr}	Reverse recovery time	I _F =I _R =30mA I _{rr} =0.1X I _R , R _L =100Ω			50	nS

Typical Characteristics

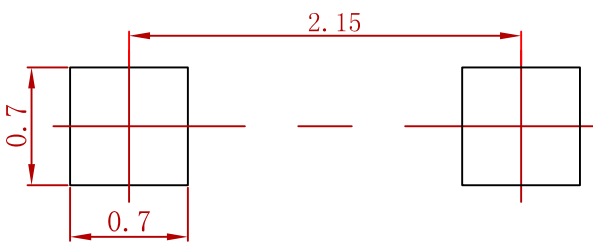


PACKAGE MECHANICAL DATA



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: ±0.05mm.
 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
BAS321	SOD-323	3000

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