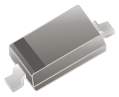
Small-Signal Fast Switching Diodes

BAS321-HF

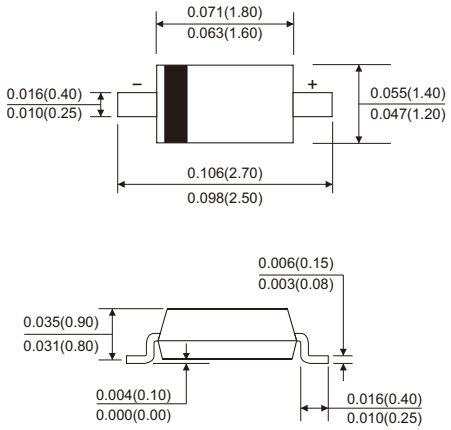
RoHS Device
Halogen Free



Features

- Fast switching speed.
- Low leakage current.

SOD-323



Dimensions in inches and (millimeter)

Mechanical data

- Case: SOD-323, molded plastic.
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102.
- Polarity: Cathode line denotes the cathode end.

Circuit Diagram



Maximum Rating (at Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	250	V
Reverse voltage	V_R	200	V
Non-repetitive peak forward surge current @ t=8.3ms, half sine-wave	I_{FSM}	2	A
Average forward current	I_{FAV}	200	mA
Power dissipation	P_D	250	mW
Junction temperature	T_J	150	°C
Storage temperature range	T_{STG}	-55 to +150	°C

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Electrical Characteristics (at Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min	Max	Unit
Forward voltage	V_F	I_F = 100mA		1.0	V
		I_F = 200mA		1.25	
Reverse current	I_R	V_R = 200V		100	nA
Breakdown voltage	V_R	I_R = 10μA	200		V
Diode capacitance	C_D	V_R = 0V, f = 1MHz		5	pF
Reverse recovery time	t_{rr}	I_F = I_R = 30mA, R_L = 100Ω, I_{rr} = 3mA		50	ns

Typical Rating and Characteristic Curves (BAS321-HF)

Fig.1 - Forward Characteristics

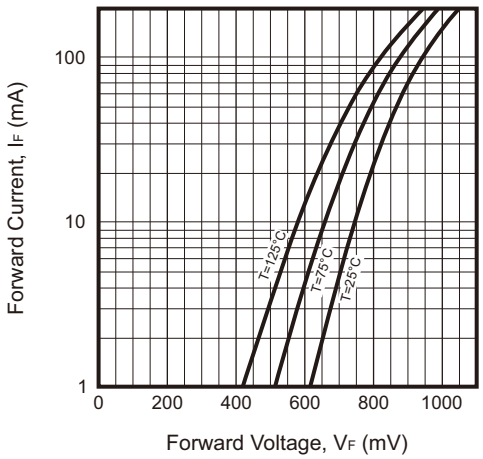


Fig.2 - Reverse Characteristics

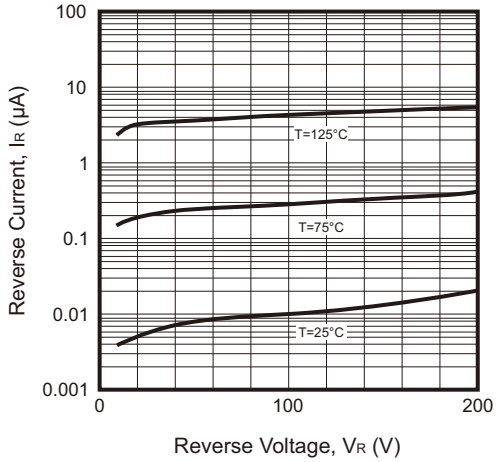
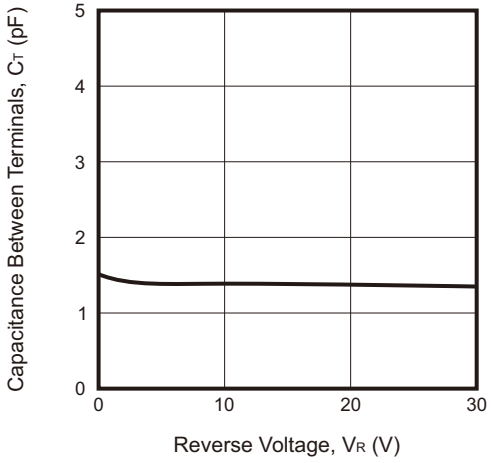
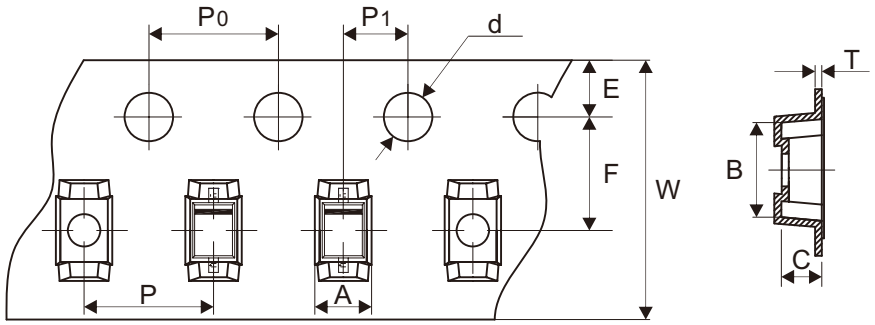


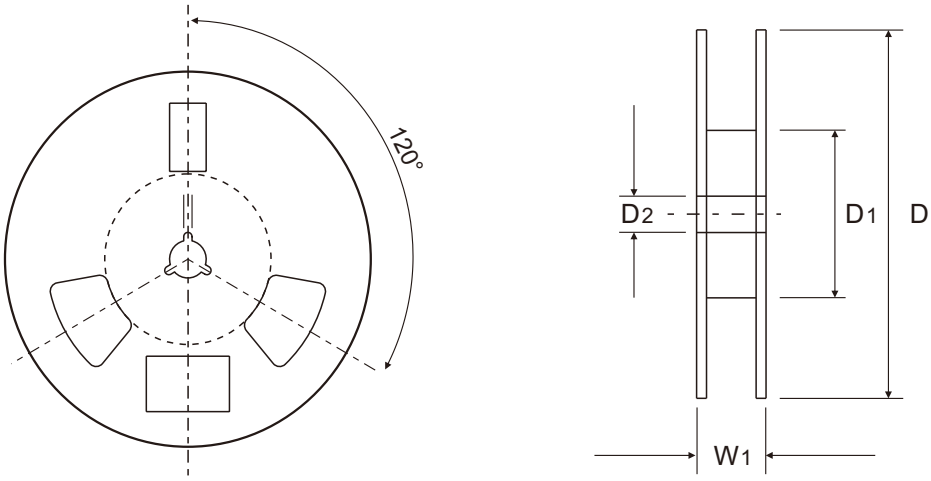
Fig.3 - Capacitance Characteristics

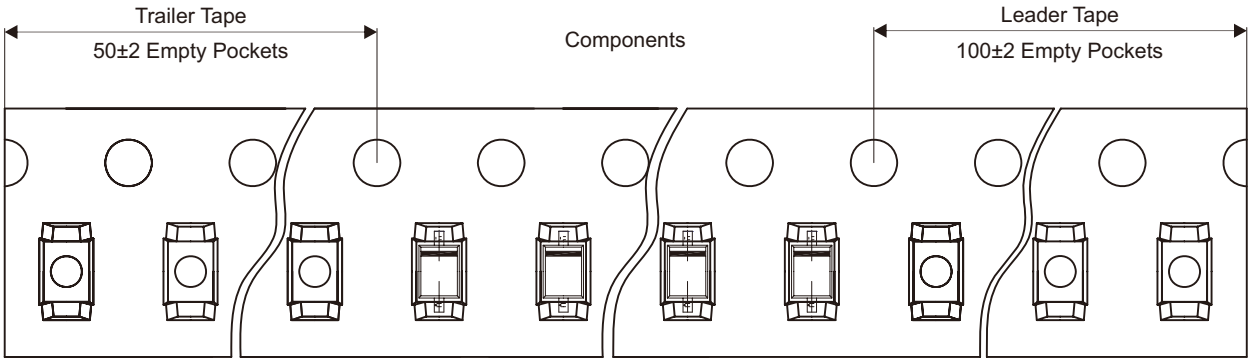


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Reel Taping Specification







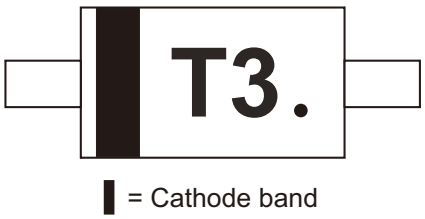
	SYMBOL	A	B	C	d	D	D1	D2
SOD-323	(mm)	1.50 ± 0.05	2.90 ± 0.10	1.25 ± 0.10	1.50 + 0.10 − 0.00	178.00 ± 2.00	54.40 ± 1.00	13.00 ± 1.00
	(inch)	0.059 ± 0.002	0.114 ± 0.004	0.049 ± 0.004	0.059 + 0.004 − 0.000	7.008 ± 0.079	2.142 ± 0.039	0.512 ± 0.039

	SYMBOL	E	F	P	P0	P1	T	W	W1
SOD-323	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.254 ± 0.02	8.00 + 0.30 − 0.10	12.30 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.010 ± 0.001	0.315 + 0.012 − 0.004	0.484 ± 0.039

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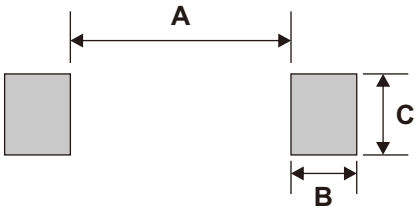
Marking Code

Part Number	Marking Code
BAS321-HF	T3.



Suggested P.C.B. PAD Layout

SIZE	SOD-323	
	(mm)	(inch)
A	1.88	0.074
B	0.56	0.022
C	0.69	0.027



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
SOD-323	3,000	7

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