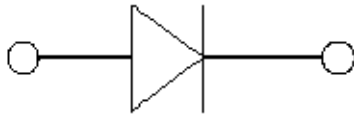


## BAS321

### Small-Signal Switching Diodes



#### Features

- VR 200V
- I<sub>FAV</sub> 200mA

#### Typical Applications

- Extreme fast switches

#### Mechanical Data

- **Package:** SOD323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** T3

#### ■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V <sub>RRM</sub>	V		250
Reverse Voltage	V <sub>R</sub>	V		200
Non-Repetitive Peak Forward Surge Current	I <sub>FSM</sub>	A	t=8.3ms, Half sine-wave	2
Average forward current	I <sub>FAV</sub>	mA		200
Power dissipation	P <sub>D</sub>	mW		250
Junction temperature	T <sub>j</sub>	°C		150
Storage temperature range	T <sub>stg</sub>	°C		-55 to +150

#### ■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	Min	Max
Maximum Forward voltage	VF	V	I <sub>F</sub> =100mA		1.0
			I <sub>F</sub> =200mA		1.25
Maximum Reverse current	IR	nA	VR=200V		100
Minimum Breakdown voltage	V <sub>R</sub>	V	I <sub>R</sub> =10uA	200	
Maximum Diode capacitance	C <sub>D</sub>	pF	V <sub>R</sub> =0V, f =1MHz		5
Maximum Reverse recovery time	t <sub>rr</sub>	ns	IF=IR=30 mA,RL=100Ω,IRR=3mA		50

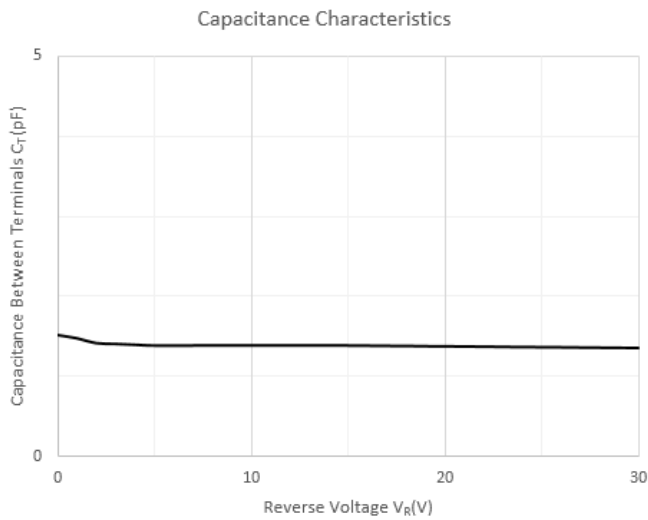
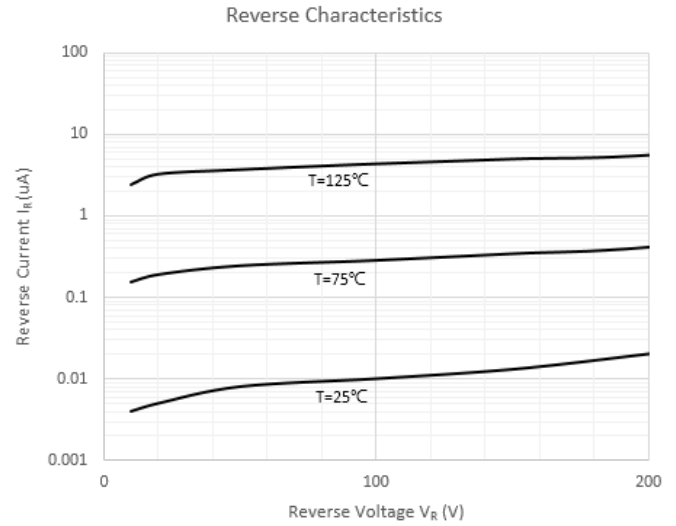
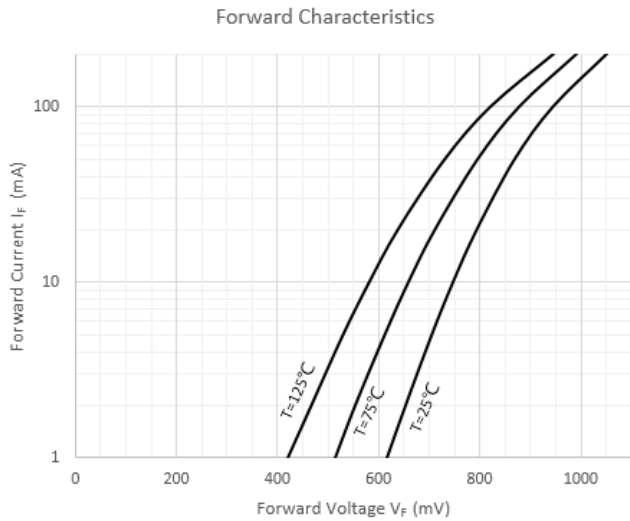


# BAS321

## Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS321	F2	Approximate 0.004	3000	30000	120000	7" reel

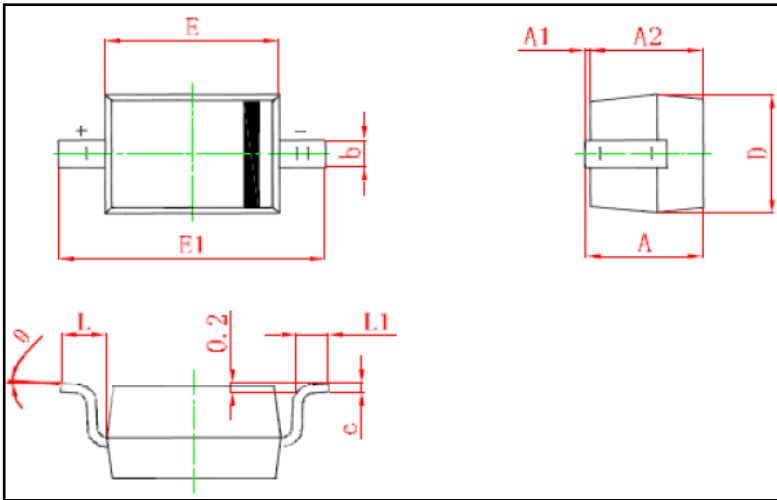
## Characteristics(Typical)





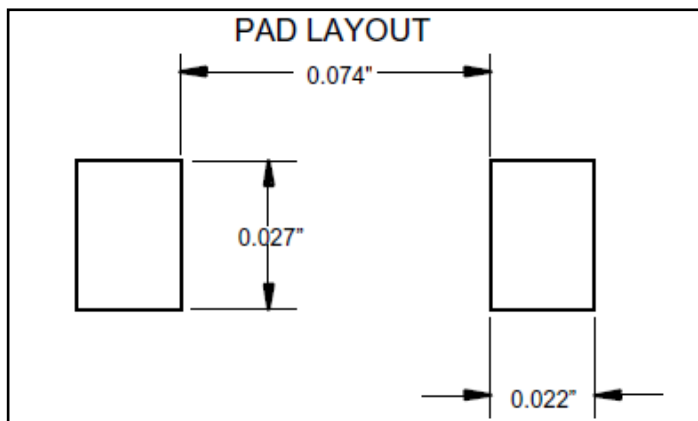
## BAS321

### ■ SOD-323 Package Outline Dimensions



Symbol	Min. (mm)	Max. (mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.400
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
$\theta$	0°	8°

### ■ SOD-323 Soldering Footprint



Unit: inches



## BAS321

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