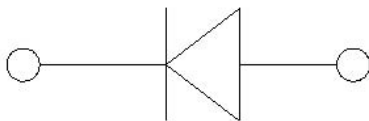


BAS521H

Small-Signal Switching Diodes



Features

- V_R 300V
- I_{FAV} 200mA

Typical Applications

- Extreme fast switches

Mechanical Data

- **Package:** SOD523
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** JS

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		300
Reverse Voltage	V_R	V		300
Non-Repetitive Peak Forward Surge Current	I_{FSM}	A	t=8.3ms, Half sine-wave	2
Average forward current	I_{FAV}	mA		200
Power dissipation	P_D	mW		150
Thermal Resistance Junction to Ambient Air	R_{thJA}	°C/W		833
Junction temperature	T_j	°C		150
Storage temperature range	T_{stg}	°C		-55 to +150

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

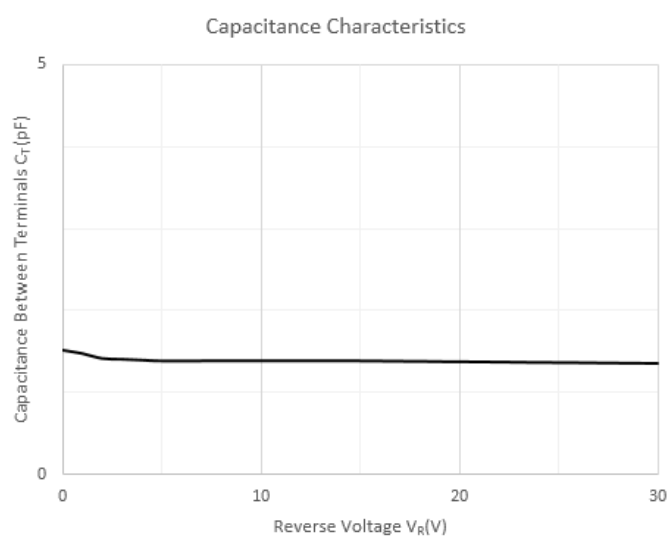
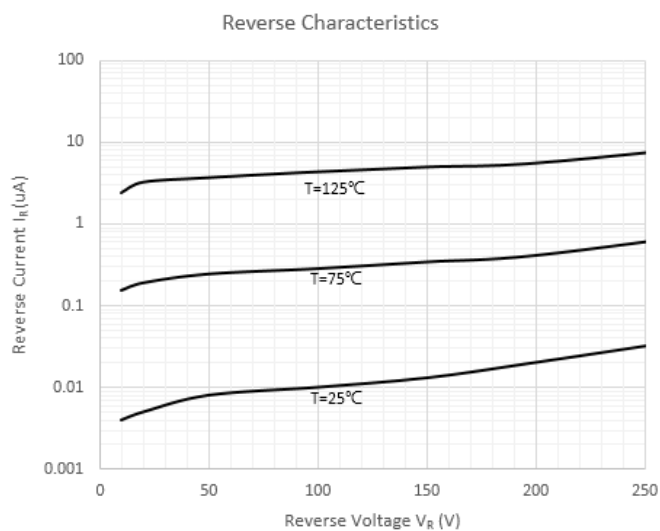
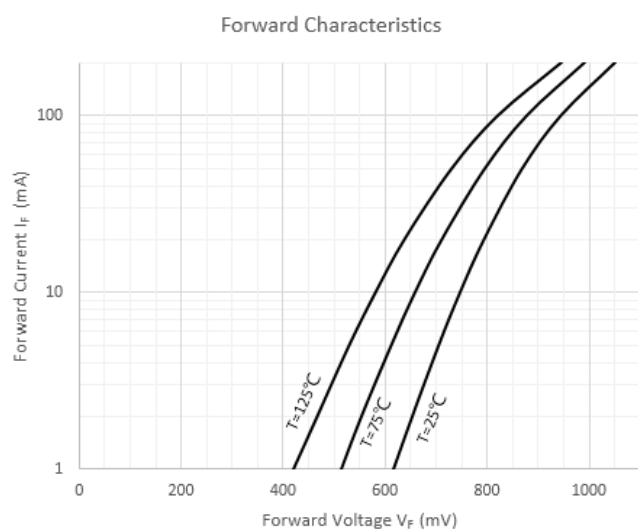
PARAMETER	SYMBOL	UNIT	Conditions	Min	Max
Maximum Forward voltage	V_F	V	$I_F=100mA$		1.1
Maximum Reverse current	I_R	nA	$V_R=250V$		150
Minimum Breakdown voltage	V_R	V	$I_R=100uA$	300	
Maximum Diode capacitance	C_D	pF	$V_R=0V, f=1MHz$		5
Maximum Reverse recovery time	t_{rr}	ns	$I_F=I_R=30mA, R_L=100\Omega, I_{RR}=3mA$		50

BAS521H

■Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS521H	F2	Approximate 0.002	8000	80000	320000	7" reel

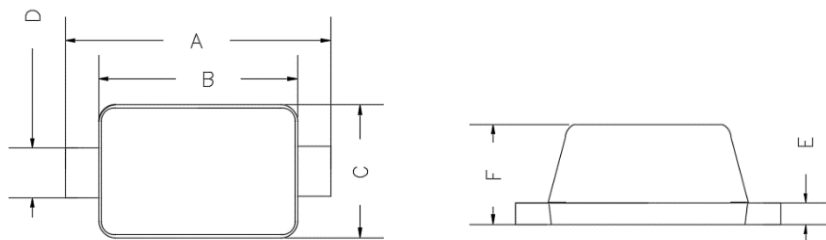
■Characteristics(Typical)



BAS521H

■ SOD-523 Package Outline Dimensions

SOD-523

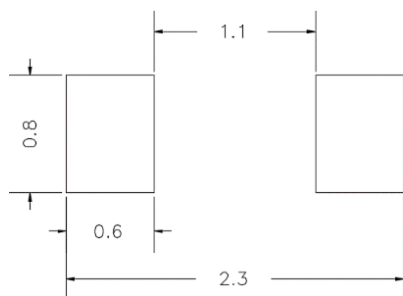


TOP VIEW

SIDE VIEW

DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.059	0.067	1.500	1.700
B	0.043	0.051	1.100	1.300
C	0.028	0.035	0.700	0.900
D	0.010	0.014	0.250	0.350
E	0.002	0.008	0.050	0.200
F	0.020	0.028	0.500	0.700

■ SOD-523 Soldering Footprint



UNIT : mm

SUGGESTED SOLDER PAD LAYOUT

BAS521H

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