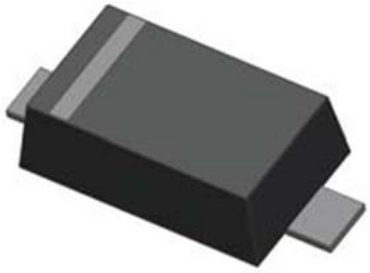
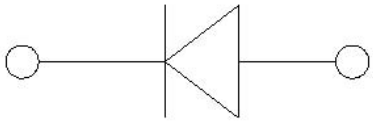
BAS521H

RoHS COMPLIANT





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℃ Unless otherwise specified）

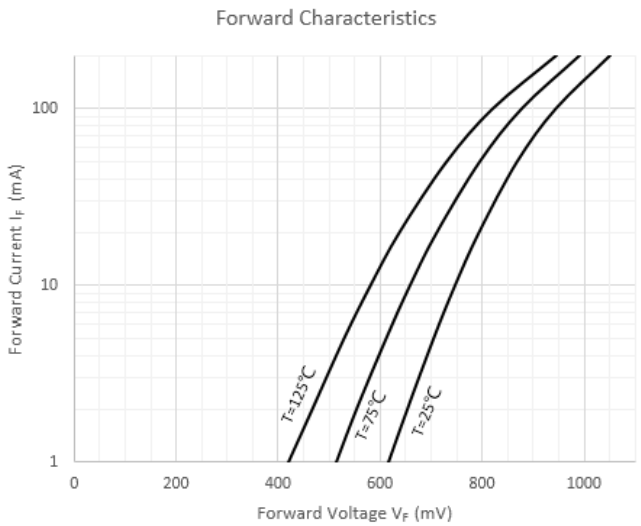
PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		300
Reverse Voltage	V_R	V		300
Non-Repetitive Peak Forward Surge Current	I_{FSM}	A	t=8.3ms, Half sine-wave	2
Average forward current	I_{FAV}	mA		200
Power dissipation	P_D	mW		150
Thermal Resistance Junction to Ambient Air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

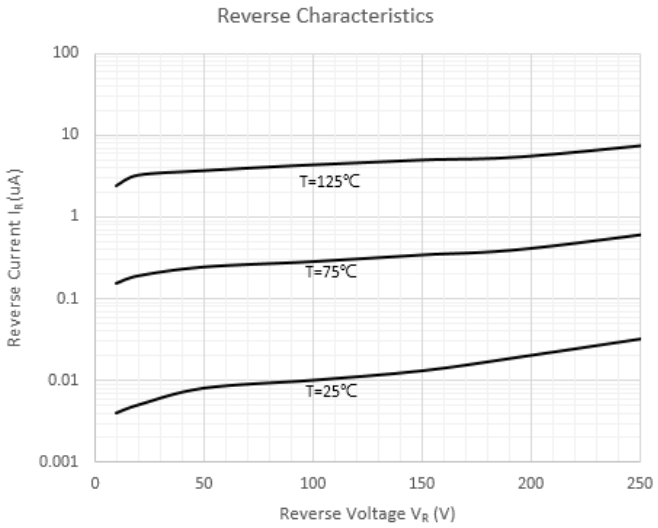
■Electrical Characteristics（T_a=25℃ Unless otherwise specified）

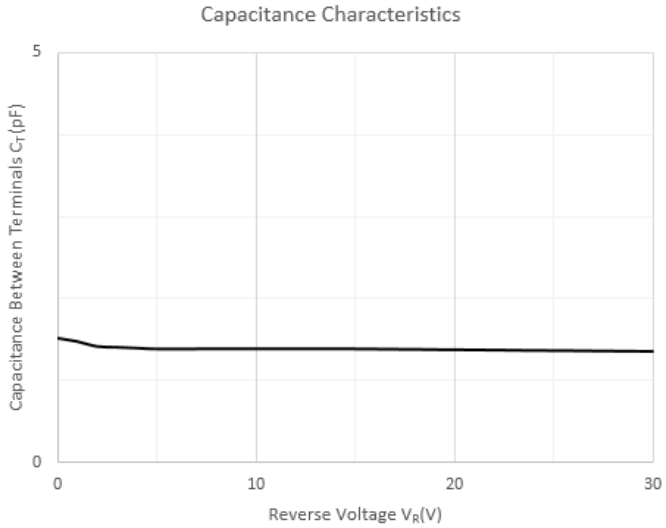
PARAMETER	SYMBOL	UNIT	Conditions	Min	Max
Maximum Forward voltage	V_F	V	I_F=100mA		1.1
Maximum Reverse current	I_R	nA	V_R=250V		150
Minimum Breakdown voltage	V_R	V	I_R=100uA	300	
Maximum Diode capacitance	C_D	pF	V_R=0V, f =1MH$_Z$		5
Maximum Reverse recovery time	t_{rr}	ns	I_F=I_R=30 mA,R_L=100Ω,I_{RR}=3mA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

PREFERED 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

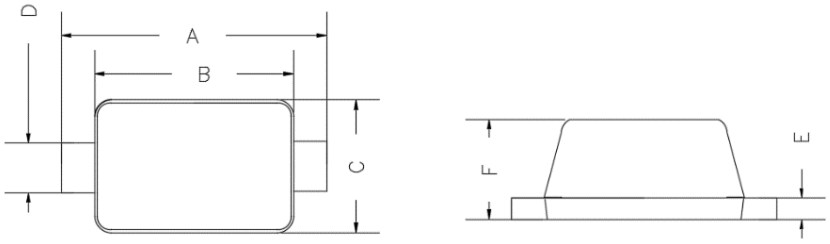
■**Characteristics**(Typical)







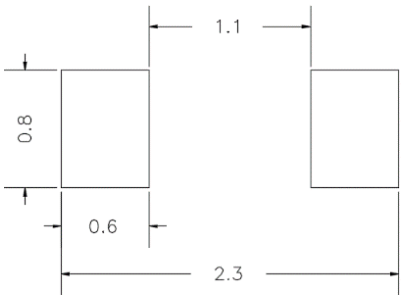
SOD-523



TOP VIEW SIDE VIEW

DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MN	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

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