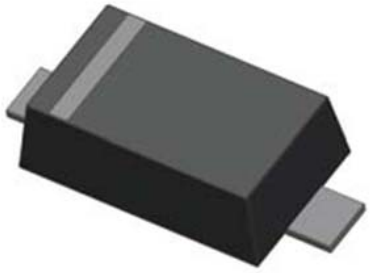
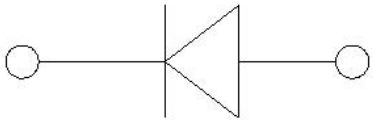
BAS521

RoHS COMPLIANT





Features

- VR 250V
- 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		250
Reverse Voltage	V_R	V		250
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
Junction temperature	T_j	℃		150
Storage temperature range	T_{stg}	℃		-55 to +150

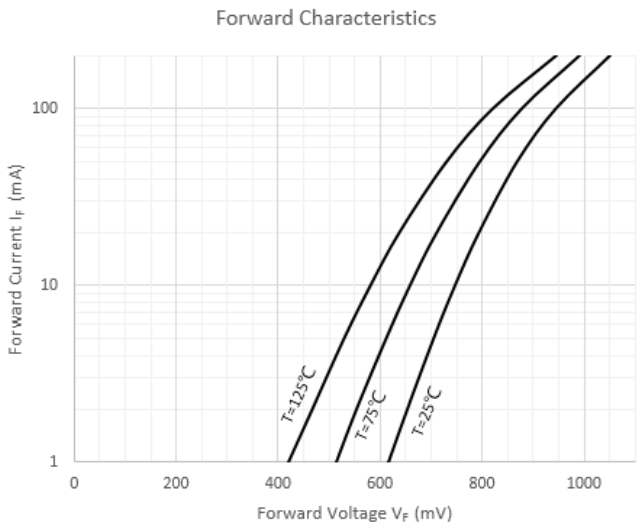
■Electrical Characteristics（T_a=25℃ Unless otherwise specified）

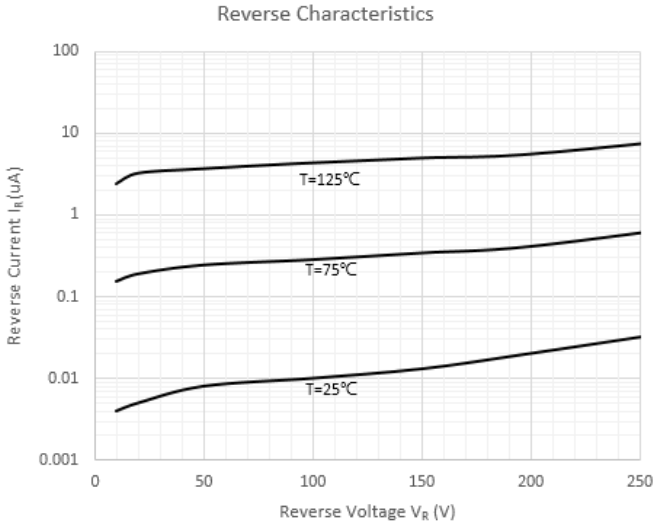
PARAMETER	SYMBOL	UNIT	Conditions	Min	Max
Maximum Forward voltage	V_F	V	I_F=100mA		1.1
Maximum Reverse current	I_R	nA	VR=250V		150
Minimum Breakdown voltage	V_R	V	I_R=100uA	250	
Maximum Diode capacitance	C_D	pF	V_R=0V, f =1MH$_Z$		5
Maximum Reverse recovery time	t_{rr}	ns	IF=IR=30 mA,RL=100Ω,IRR=3mA	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

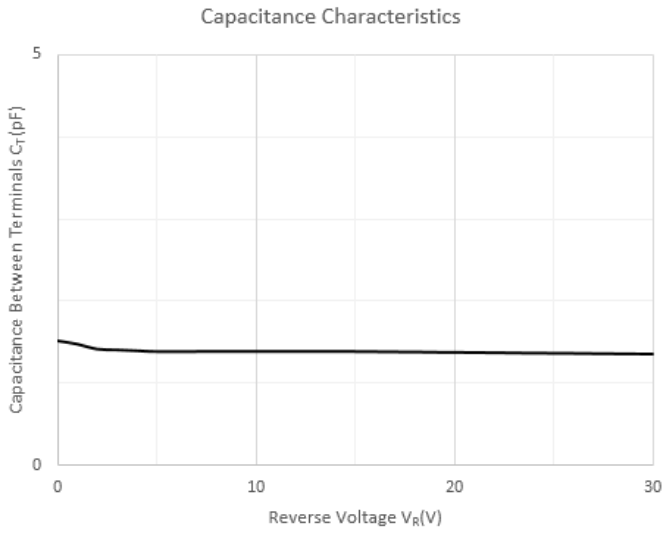
■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS521	F2	Approximate 0.002	8000	80000	320000	7” reel

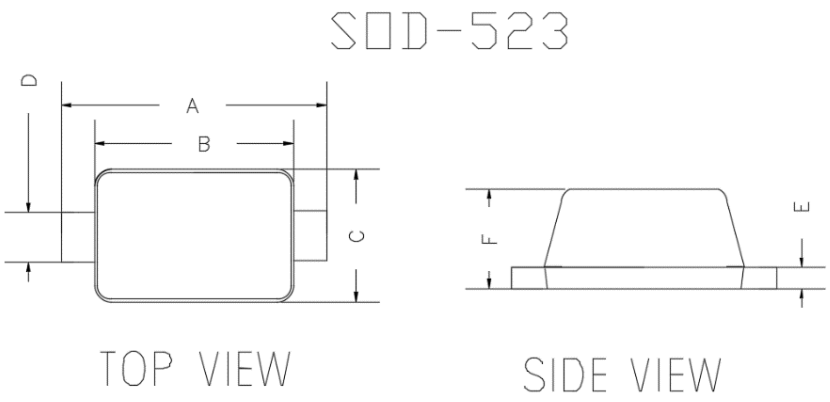
■Characteristics(Typical)





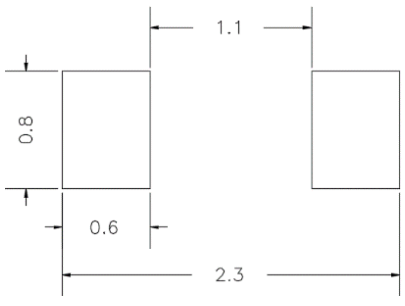


■ Outline Dimensions



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

■ Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT

Notice

All products, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise. Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in STARSEA's terms and conditions of sale for such products, STARSEA assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of STARSEA products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.