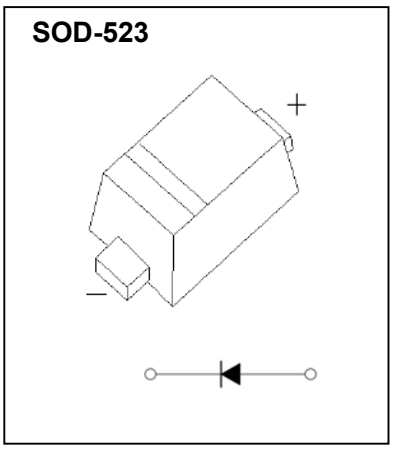
BAS521

SOD-523 Plastic-Encapsulate Diodes

Small Signal Fast Switching Diodes

Features

- VR 250V
- I_{FAV} 200mA



Typical Applications

- E treme fast switches

Mechanical Data

- **Package**: SOD-523
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** JS

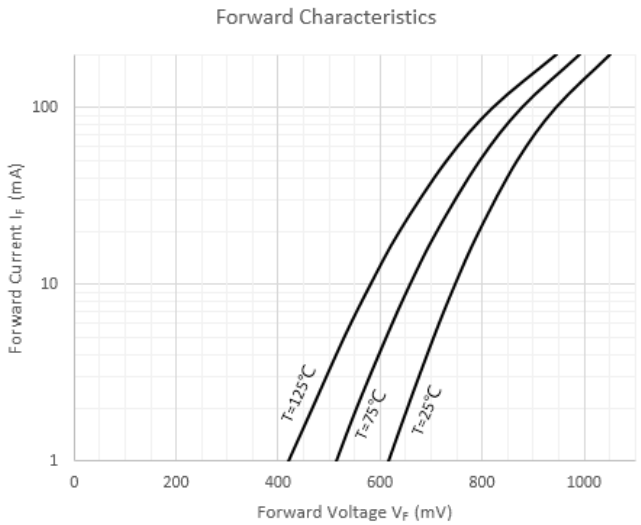
■Maximum Ratings (Ta=25℃ Unless otherwise specified）

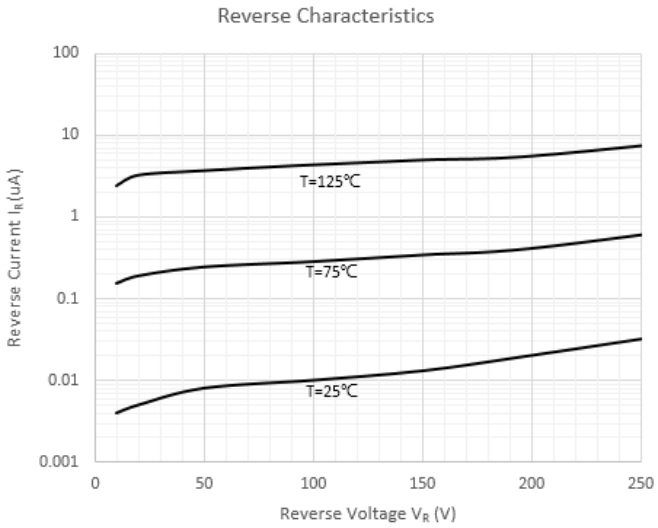
PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		250
Reverse Voltage	V_R	V		250
Non-Repetitive Peak Forward Surge Current	I_{FSM}	A	t=8.3ms, Half sine-wave	2
Average forward current	I_{FAV}	mA		200
Power dissipation	P_D	mW		150
Junction temperature	T_j	℃		150
Storage temperature range	T_{stg}	℃		-55 to +150

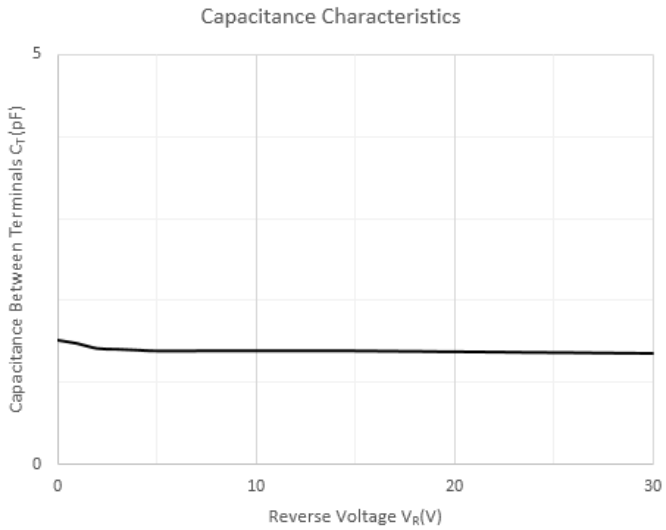
■Electrical Characteristics（Ta=25℃ Unless otherwise specified）

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 =1MHz		5
Maximum Reverse recovery time	t_{rr}	ns	IF=IR=30 mA,RL=100Ω,IRR=3mA		50

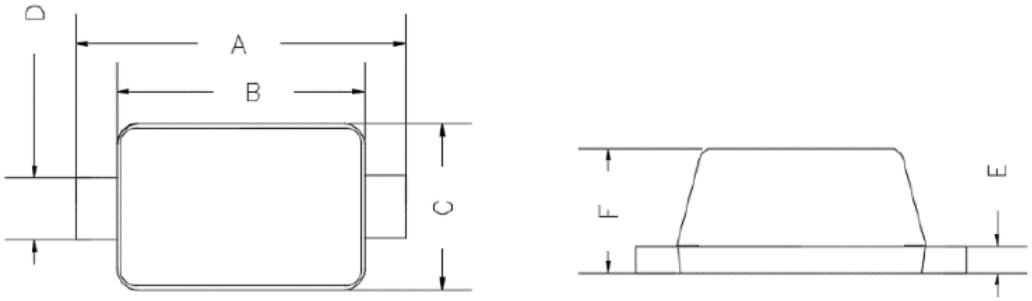
Typical Characteristics





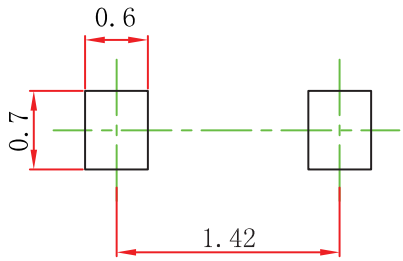


SOD-523 Package Outline Dimensions



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

SOD-523 Suggested Pad Layout



Note:
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.05mm.
3.The pad layout is for reference purposes only.