BAS21H

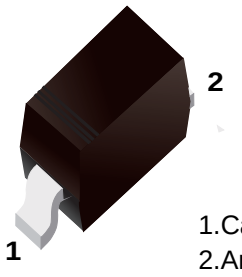
High Voltage Switching Diodes

■ Features

- Fast switching
- Designed for surface mount application
- Plastic material-UL recognition flammability classification 94V-O

■ Applications

Surface mount fast switching diode



1.Cathode
2.Anode

■ **Simplified outline(SOD-323)**

Top View

■ Absolute Maximum Ratings Ta = 25℃

Characteristic	**Symbol**	**Value**	**Unit**
Continuous Reverse Voltage	V_R	250	V
Repetitive Peak Reverse Voltage	V_{RRM}	250	V
Forward Continuous Current	I_F	200	mA
Peak forward surge current	I_{FSM}	625	mA
Power Dissipation	P_d	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	635	℃/W
Junction and Storage Temperature Rage	T_j,T_{STG}	-55 to+150	℃

■ Electrical Characteristics Ta = 25℃

Characteristic	**Symbol**	**Min**	**Max**	**Unit**	**Test Condition**
Reverse Breakdown Voltage	$V_{(BR)R}$	250	-	V	I_R=100μA
Forward Voltage	V_F	-	1000 1250	mV	I_F=100mA I_F=200mA
Reverse Current	I_R	-	0.1 100	μA	V_R=200V V_R=200V,T_J=150℃
Diode Capacitance	C_D	-	5	pF	V_R=0,f=1.0MHz
Reverse Recovery Time	t_{rr}	-	50	ns	I_F=I_R=30mA,R_L=100Ω

■ Typical Characterisitics

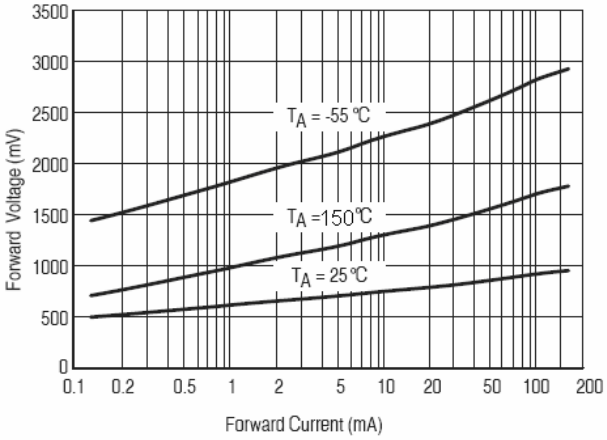


Figure 1. Forward Voltage

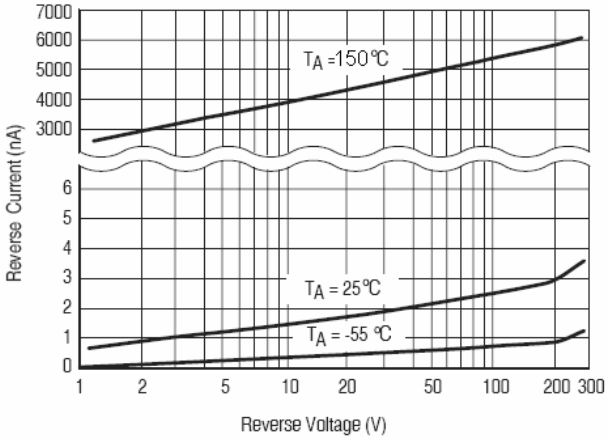
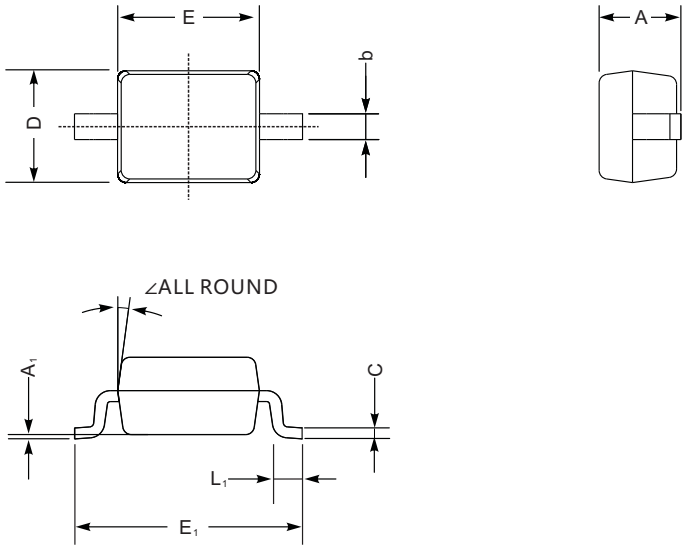


Figure 2. Reverse Leakage

■ SOD-323



SOD-323 mechanical data

UNIT		A	C	D	E	E_1	b	L_1	A_1	∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	63	100	9.8	7.9	—	

■ The recommended mounting pad size