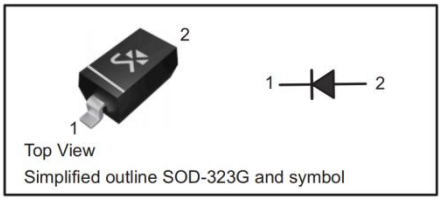
BAV21WS

Features

- For surface mounted applications
- Glass passivated chip junction
- Fast reverse recovery time
- Ideal for automated placement

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Simplified outline SOD-323G and symbol

Marking:T3

Absolute Maximum Ratings(T_A=25℃ unless otherwise specified)

Parameter		Symbol	Value	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	250	V
Maximum RMS Voltage		V_{RMS}	141	V
Continuous Forward Current		I_F	250	mA
Repetitive Peak Forward Current		I_{FRM}	625	mA
Non-repetitive Peak Forward Surge Current	at 1s	I_{FSM}	1	A
	at 1ms		3	
	at 1μs		9	
Total Power Dissipation		P_{tot}	500	mW
Operating and Storage Temperature Range		T_J,T_{STG}	-55~+150	℃

Thermal Characteristics

Parameter	Symbol	Value	Units
Thermal Resistance,Junction to Ambient	$R_{\theta JA}$	170	℃/W
Thermal Resistance,Junction to Case	$R_{\theta JC}$	80	℃/W

Note:P.C.B. mounted with 0.3”x0.3”(8x8mm)copper pad areas

Electrical Characteristics(T_A=25℃ unless otherwise specified)

Parameter		Symbol	Value	Units
Reverse Breakdown Voltage at I_R = 100uA		$V_{(BR)R}$	250	V
Maximum Forward Voltage	at 100mA	V_F	1.00	V
	at 200mA		1.25	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_A=25℃	I_R	0.1	nA
	T_A=150℃		100	μA
Total Junction Capacitance at V_R = 4V, f = 1MHz		C_J	5	pF
Reverse Recovery Time(1)		t_{rr}	50	ns

Note:(1)Measured with I_F=0.5A, I_R=1A, I_{rr}=0.25A

Typical Characteristic

Fig.1 Power Derating Curve

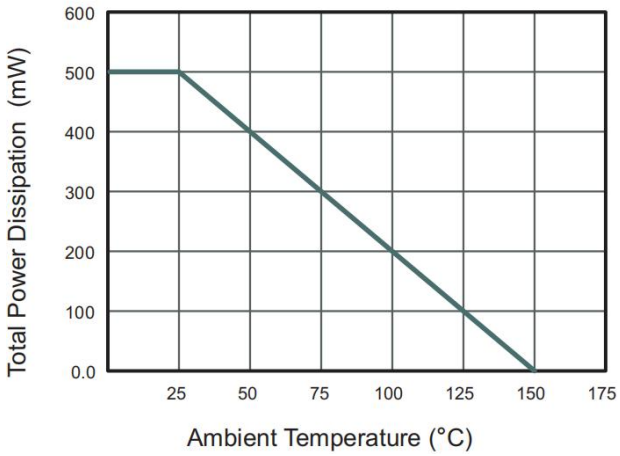


Fig.2 Typical Reverse Characteristics

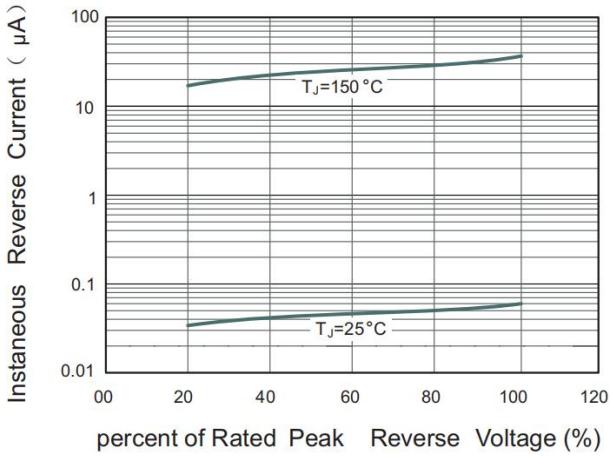


Fig.3 Typical Instaneous Forward Characteristics

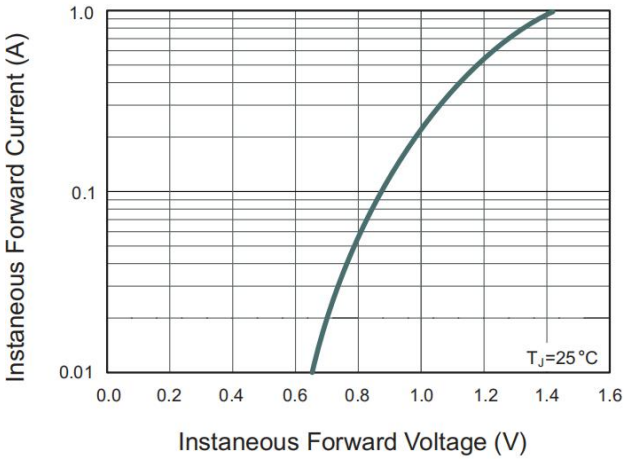
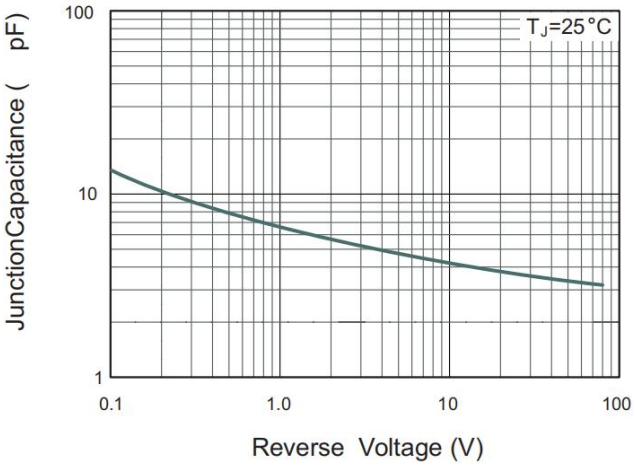


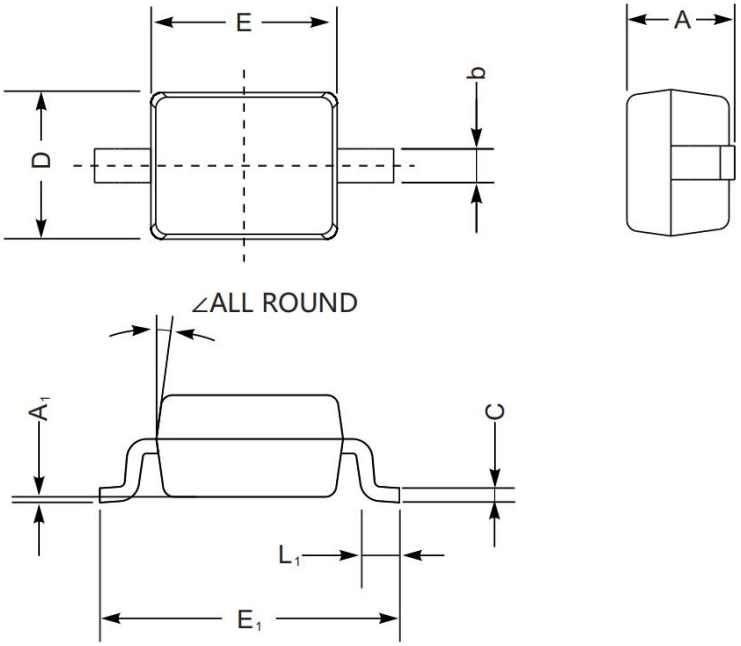
Fig.4 Typical Junction Capacitance



Package Information

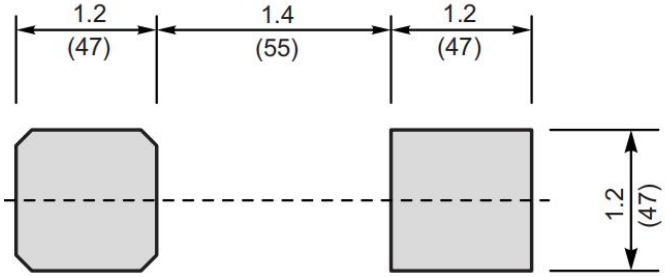
SOD-323G

Dimensions in mm



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



Unit: mm (mil)

Shikues Disclaimer

1.Accuracy of Information and Right to Modify

The information provided in this document is for reference only. Shikues reserves the right to make changes to this document and to the specifications of the products described herein at any time, without prior notice, for the purpose of improving reliability, function, design, or for any other reason. It is the customer's responsibility to obtain and verify the latest product information and specifications before making any final design, procurement, or usage decisions.

2.No Warranty

Shikues makes no express or implied warranties, representations, or guarantees regarding the suitability of its products for any particular purpose.

Shikues assumes no liability for any assistance provided or for the design of customer products. All products are supplied "as is."

3.Intended Use and Limitation of Liability

The products described in this document are intended for use in general-purpose electronic devices. They are neither designed nor tested nor authorized for use in transportation equipment or applications requiring high reliability. Unless expressly authorized in writing by Shikues, these products must not be used as critical components in life-support systems or any applications where failure could directly pose a risk to human life (including, but not limited to, medical devices, transportation systems, aerospace equipment, nuclear facilities, and safety-critical systems).

Shikues assumes no responsibility or liability for any consequences arising from the use of its products in unauthorized or unintended applications.

Neither Shikues nor its representatives shall be held liable for any resulting damages.

4.Intellectual Property

This document does not grant any express or implied license—whether by estoppel, implication, or otherwise—to use any intellectual property rights of Shikues.