

FEATURES

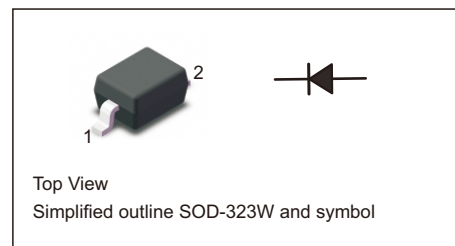
- For surface mounted applications
- Fast reverse recovery time
- Ideal for automated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: SOD-323W
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 5.48mg / 0.00019oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings at 25 °C

Parameter	Symbols	Value	Units
Repetitive Peak Reverse Voltage	V_{RRM}	250	V
Reverse Voltage	V_R	200	V
Average Rectified Output Current	I_O	250	mA
Repetitive Peak Forward Current	I_{FRM}	625	mA
Non-repetitive Peak Forward Surge Current @t=10mS	I_{FSM}	1.7	A
Total Power Dissipation	P_{tot}	300	mW
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C

Characteristics at $T_a = 25\text{ °C}$

Parameter	Symbols	Value	Units
Reverse Breakdown Voltage at $I_R=100\text{ }\mu\text{A}$	$V_{(BR)R}$	200	V
Maximum Forward Voltage at 100 m A at 200 m A	V_F	1.00 1.25	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25\text{ °C}$	I_R	0.1	μA
Typical Junction Capacitance at $V_R=0\text{V}$, $f=1\text{MHz}$	C_j	2	pF
Maximum Reverse Recovery Time ⁽¹⁾	t_{rr}	50	ns

(1) Measured with $I_F = 30\text{ mA}$, $I_R = 30\text{ mA}$, $I_{rr} = 3\text{ mA}$



Fig.1 Power Derating Curve

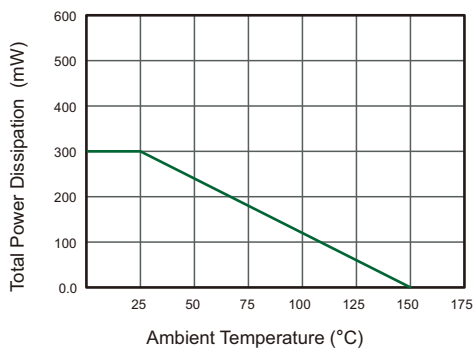


Fig.2 Typical Reverse Characteristics

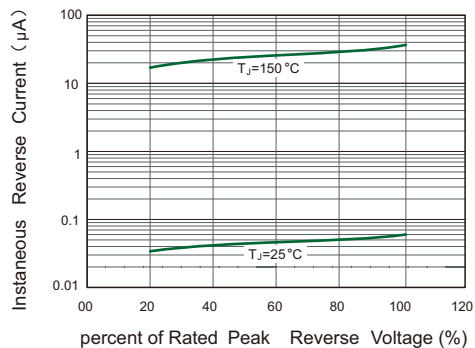


Fig.3 Typical Instaneous Forward Characteristics

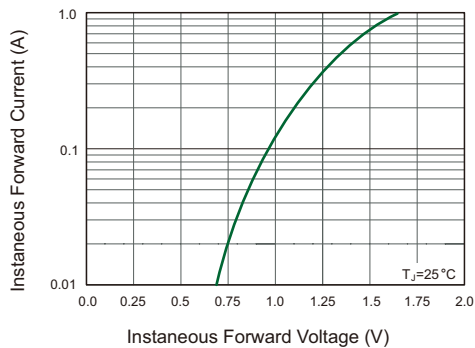
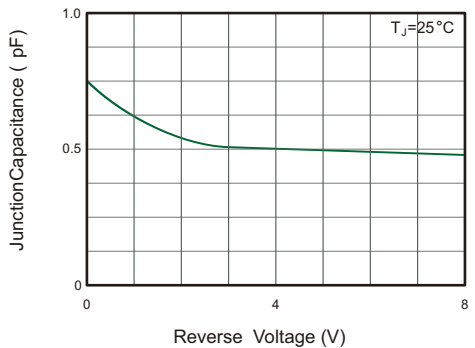


Fig.4 Typical Junction Capacitance

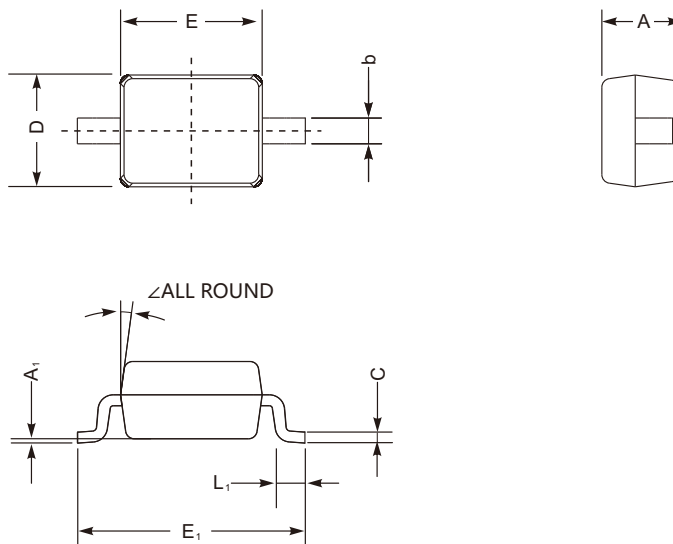




PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

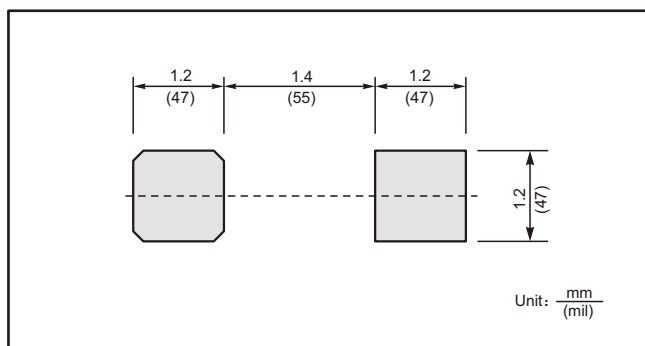
SOD-323W



SOD-323W 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	55	100	9.8	7.9	—	

The recommended mounting pad size



Marking

Type number	Marking code
BAS321WB	A7



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