

SURFACE MOUNT FAST SWITCHING DIODE

FEATURES

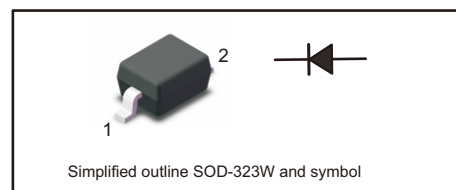
- For surface mounted applications
- Glass Passivated Chip Junction
- Fast reverse recovery time
- Ideal for automated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

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



MAXIMUM RATINGS (Ta = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Non-Repetitive peak reverse voltage	VRM	100	V
Peak Repetitive Revers Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	75	V
Reverse voltage, total rms value	VR(RMS)	53	V
Forward current (NOTE1)	IF	300	mA
Average Rectified Output Current (NOTE1)	IO	150	mA
Non-repitive Peak Forward Surge Current t=1.0us t=1.0s	IFSM	2 1	A
Total Power Dissipation	PD	200	mW
Junction-to-ambient thermal resistance	RθJA	625	°C/W
Operating Temperature Range	TJ	-55~ +150	°C
Storage Temperature Range	Tstg	-55~ +150	°C

ELECTRICAL CHARACTERISTICS(TA = 25°C unless otherwise noted)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Forward voltage	VF	IF=10mA			0.855	V
Reverse Leakage Current	IR	V=VR=75V			1	uA
Junction Capacitance	Cj	VR=0V , f=1HMz		2		pF
Reverse recovery time (NOTE2)	trr				6	ns

NOTE:

- (1)Valid provided that terminals are kept at ambient temperature.
(2) IF=IR=10mA,Irr=0.1×IR,RL=100Ω



Typical Performance Characteristics

Fig.1 Power Derating Curve

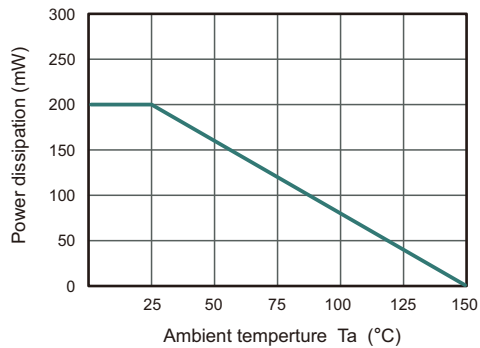


Fig.2 Typical Reverse Characteristics

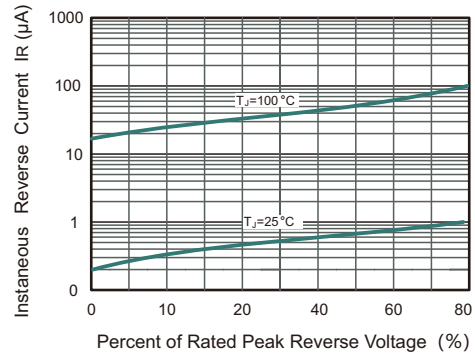


Fig.3 TYPICAL FORWARD VOLTAGE

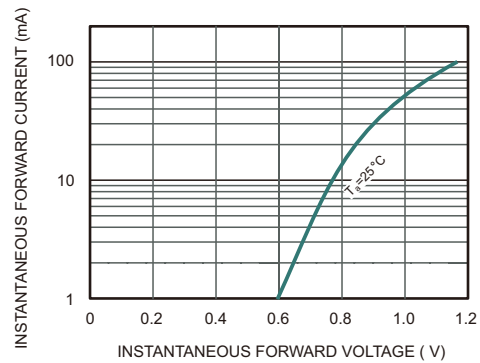


Fig.4 Typical Junction Capacitance

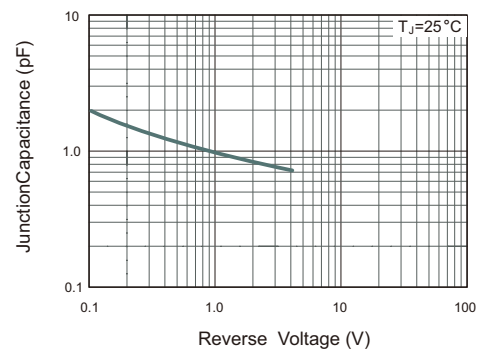
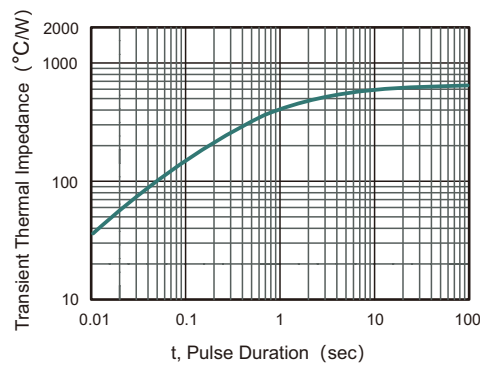


Fig.5 Typical Transient Thermal Impedance

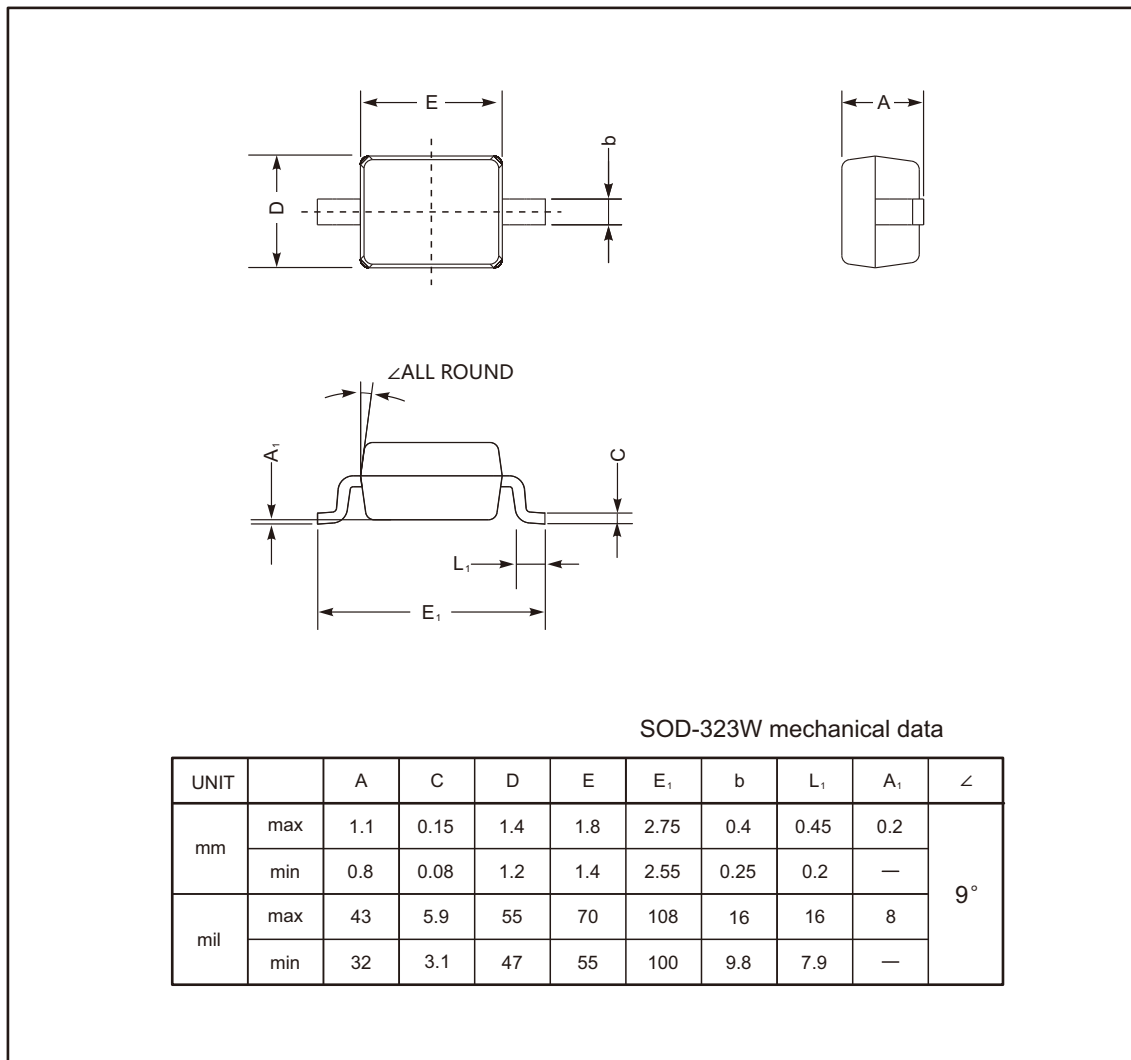




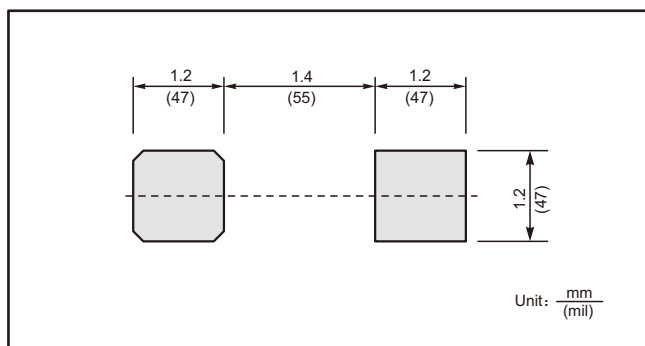
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323W



The recommended mounting pad size



Marking

Type number	Marking code
BAS16WB	A6



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