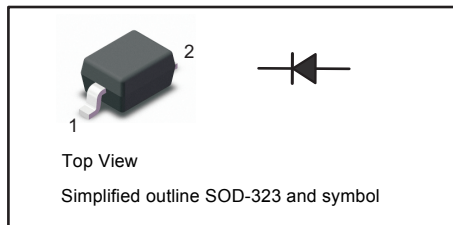


PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Features

- ◆ Fast switching speed
- ◆ Surface mount package ideally suited for automatic insertion

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter		Symbol	Value	Unit
Repetitive Peak Reverse Voltage	BAV19WS BAV20WS BAV21WS	V_{RRM}	120 200 250	V
Reverse Voltage	BAV19WS BAV20WS BAV21WS	V_R	100 150 200	V
Average Rectified Forward Current		$I_{F(AV)}$	200	mA
Forward Continuous Current		I_{FM}	400	mA
Repetitive Peak Forward Current		I_{FRM}	625	mA
Non-Repetitive Peak Forward Surge Current	at $t = 1 \mu\text{s}$ at $t = 1 \text{ s}$	I_{FSM}	2.5 0.5	A
Power Dissipation		P_{tot}	200	mW
Operating and Storage Temperature Range		T_j, T_{stg}	- 65 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter		Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu\text{A}$	BAV19WS BAV20WS BAV21WS	$V_{(BR)R}$	120 200 250	- - -	V
Reverse Current at $V_R = 100 \text{ V}$ at $V_R = 150 \text{ V}$ at $V_R = 200 \text{ V}$	BAV19WS BAV20WS BAV21WS	I_R	- - -	100 100 100	nA
Forward Voltage at $I_F = 100 \text{ mA}$ at $I_F = 200 \text{ mA}$		V_F	- -	1 1.25	V
Total Capacitance at $V_R = 0, f = 1 \text{ MHz}$		C_T	-	5	pF
Reverse Recovery Time at $I_F = I_R = 30 \text{ mA}, I_{RR} = 0.1 \times I_R, R_L = 100 \Omega$		t_{rr}	-	50	ns

Typical Characteristics

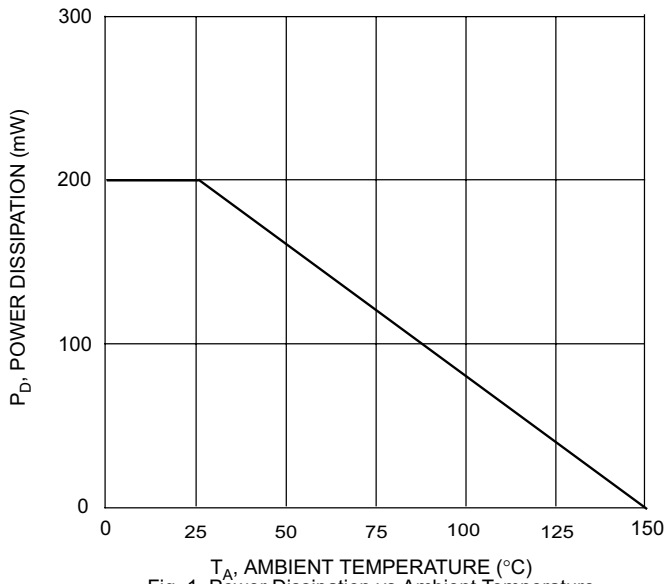


Fig. 1 Power Dissipation vs Ambient Temperature

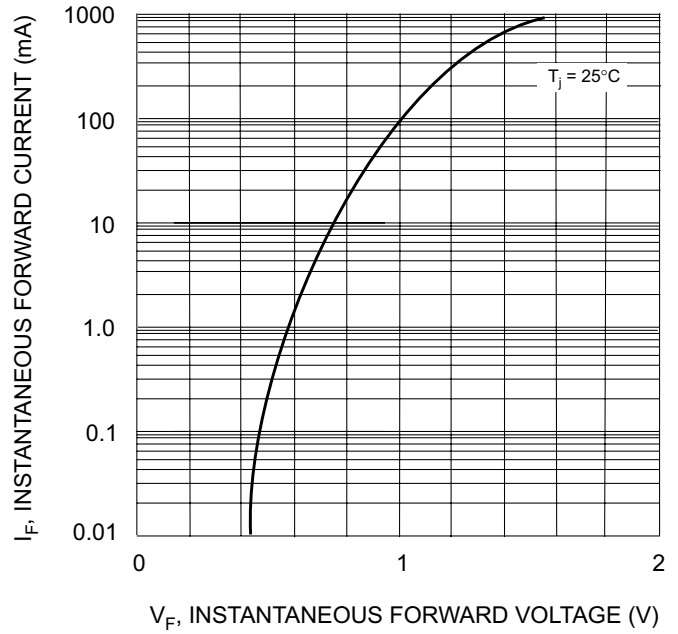


Fig. 2 Forward Characteristics

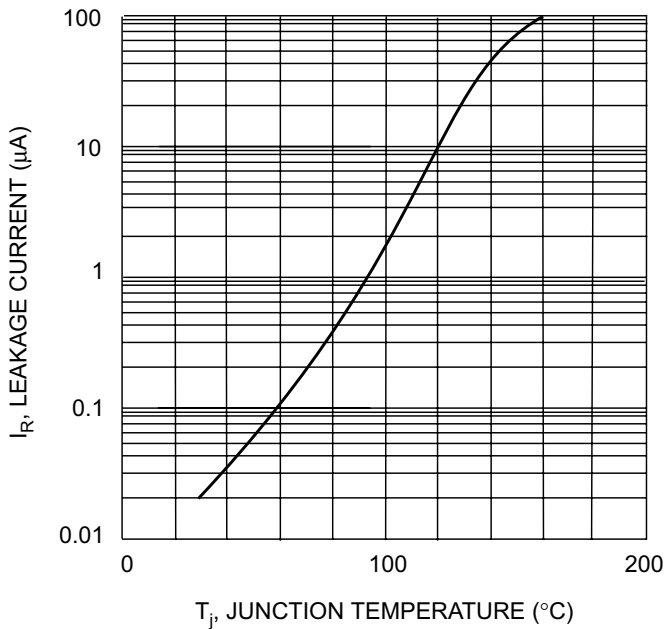
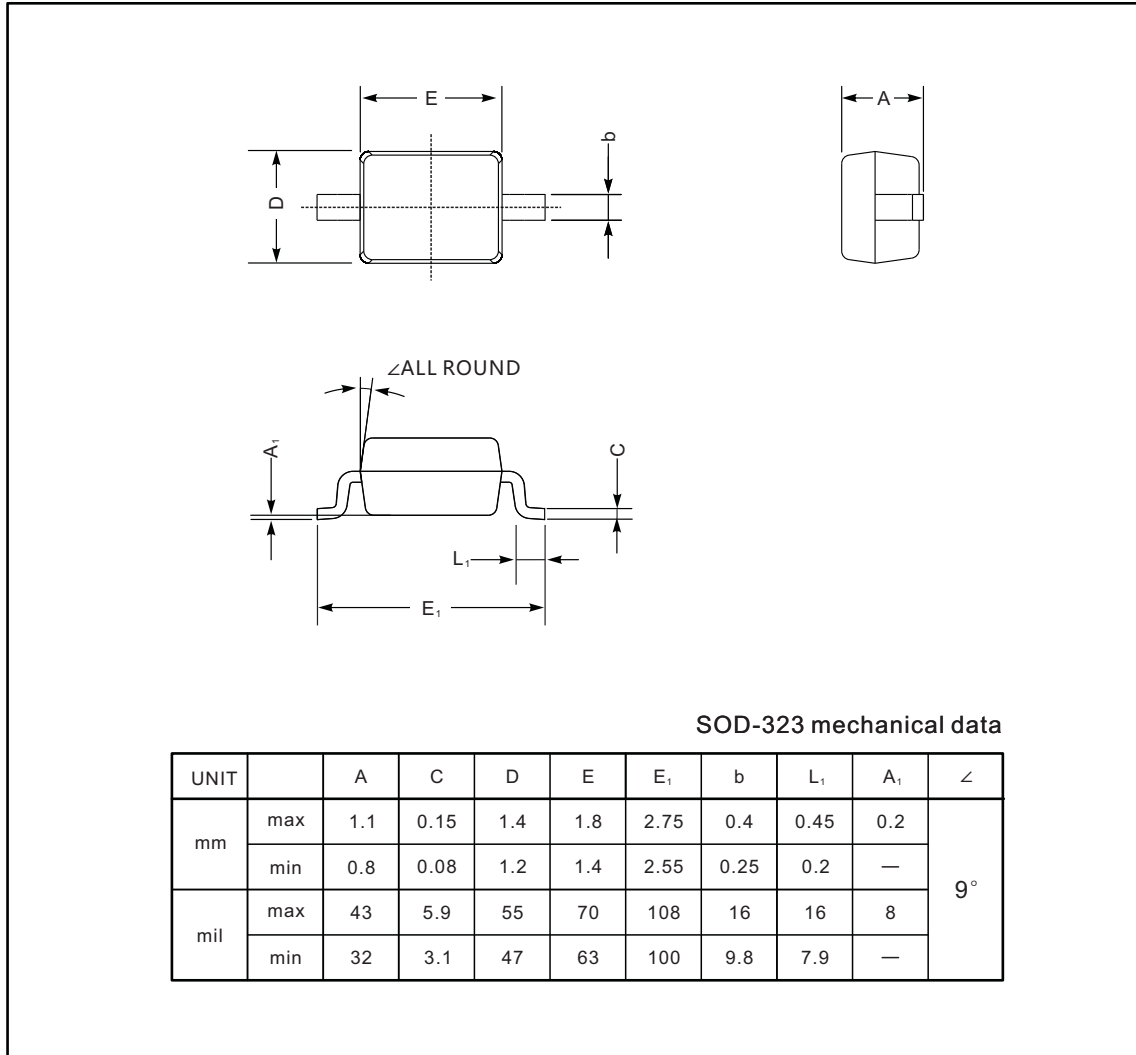


Fig. 3 Leakage Current vs Junction Temperature

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



The recommended mounting pad size

