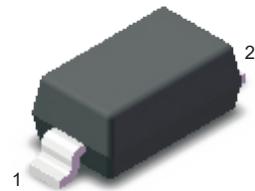


Features

- Fast switching speed
- Glass passivated chip junction
- Surface mount package ideally suited for automatic insertion

SOD-123



1.Cathode ————— 2.Anode

Marking Code:

BAV19W: A8

BAV20W: T2

BAV21W: T3

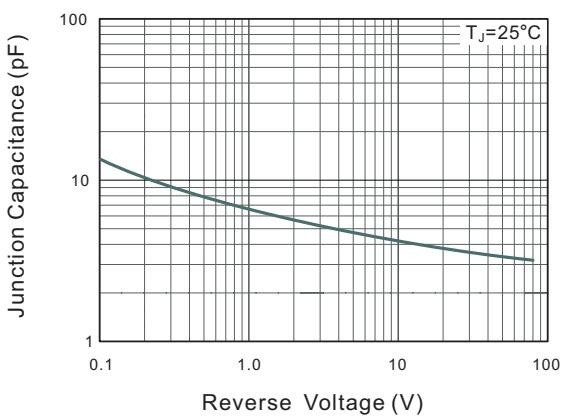
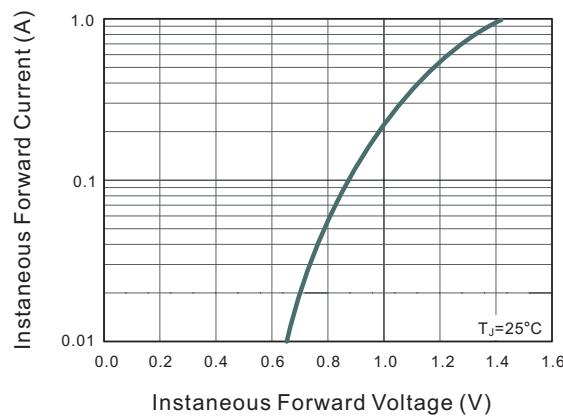
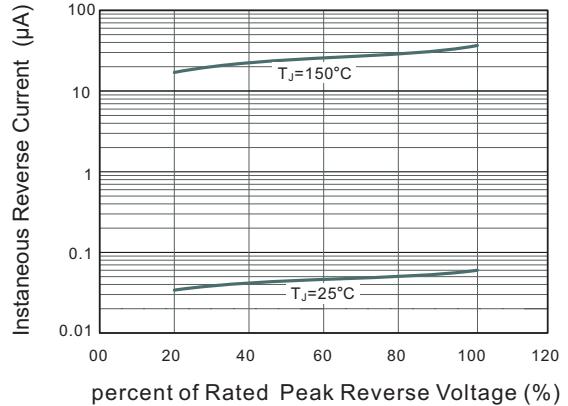
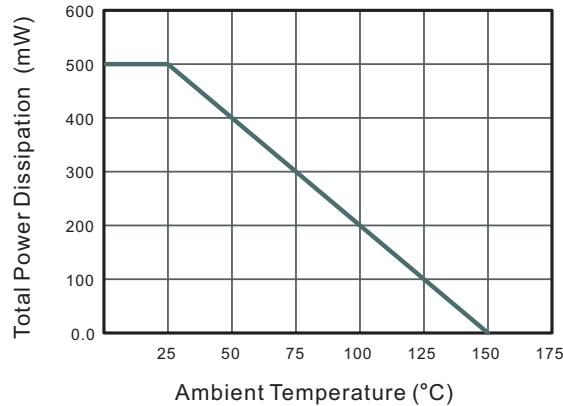
Absolute Maximum Ratings at $T_A = 25^\circ\text{C}$

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage BAV19W BAV20W BAV21W	V_{RRM}	120	V
		200	
		250	
Maximum RMS Voltage BAV19W BAV20W BAV21W	V_{RMS}	100	V
		150	
		200	
Continuous Forward Current	I_F	250	mA
Repetitive Peak Forward Current	I_{FRM}	625	mA
Non-repetitive Peak Forward Surge Current at $t = 1\text{ s}$ at $t = 1\text{ ms}$ at $t = 1\text{ }\mu\text{s}$	I_{FSM}	1	A
		3	
		9	
Power Dissipation	P_D	500	mW
Junction Temperature	T_J	500	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

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

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu\text{A}$	$V_{(\text{BR})R}$	120	--	V
		200	--	
		250	--	
Maximum Forward Voltage at $I_F = 100 \text{ mA}$ at $I_F = 200 \text{ mA}$	V_F	--	1	V
		--	1.25	
Maximum DC Reverse Current at Rated DC Blocking Voltage at $T_A = 25^\circ\text{C}$ at $T_A = 150^\circ\text{C}$	I_R	--	0.1	μA
		--	100	
		--	--	
Typical Junction Capacitance at $V_R = 4 \text{ V}$, $f = 1 \text{ MHz}$	C_J	--	5	pF
Maximum Reverse Recovery Time at $I_F = 0.5 \text{ A}$, $I_{rr} = 0.25 \text{ A}$, $I_R = 1 \text{ A}$	T_{rr}	--	50	nS

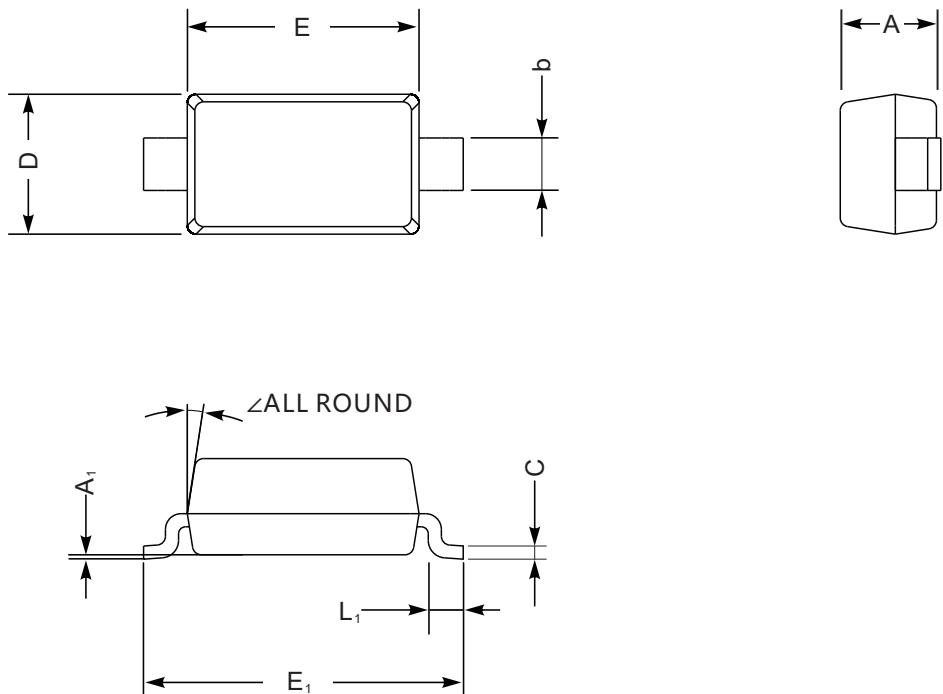
Typical Characteristic Curves



Package Outline

SOD-123

Dimensions in mm



UNIT		A	C	D	E	E ₁	L ₁	b	A ₁	∠
mm	max	1.3	0.22	1.8	2.8	3.9	0.45	0.7	0.2	9°
	min	0.9	0.09	1.5	2.5	3.6	0.25	0.5	—	
mil	max	51	8.7	71	110	154	18	28	8	9°
	min	35	3.5	59	98	142	10	20	—	