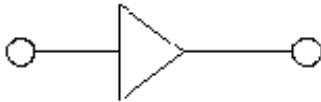


# BAV19W THRU BAV21W

## Small-Signal Switching Diodes



### Features

- $V_R$  100V/150V/200V
- $I_{FAV}$  200mA

### Typical Applications

- Extreme fast switches

### Mechanical Data

- **Package:** SOD123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

	Marking
BAV19W	A8
BAV20W	T2
BAV21W	T3

### ■ Maximum Ratings ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	$V_{RRM}$	V		BAV19W 120
				BAV20W 200
				BAV21W 250
Average forward current	$I_{FAV}$	mA		200
Power dissipation	$P_{tot}$	mW		400
Maximum junction temperature	$T_j$	$^\circ\text{C}$		-65 to +150
Storage temperature range	$T_{stg}$	$^\circ\text{C}$		-65 to +150

### ■ Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Forward voltage	$V_F$	V	$I_F=100\text{mA}$	1.0
			$I_F=200\text{mA}$	1.25
Maximum Reverse current	$I_R$	nA	BAV19W $V_R=100\text{V}$	100
			BAV20W $V_R=150\text{V}$	
			BAV21W $V_R=200\text{V}$	
Minimum Breakdown voltage	$V_{(BR)}$	V	BAV19W $I_R=10\mu\text{A}$	100
			BAV20W $I_R=10\mu\text{A}$	150
			BAV21W $I_R=10\mu\text{A}$	200
Maximum Diode capacitance	$C_D$	pF	$V_R=0\text{V}, f=1\text{MHz}$	5
Maximum Reverse recovery time	$t_{rr}$	ns	$I_F=I_R=30\text{mA}, R_L=100\Omega, I_{RR}=3\text{mA}$	50



# BAV19W THRU BAV21W

## Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAV19W Thru BAV21W	F2	Approximate 0.011	3000	30000	120000	7" reel

## Characteristics(Typical)

Fig.1 Total Capacitance

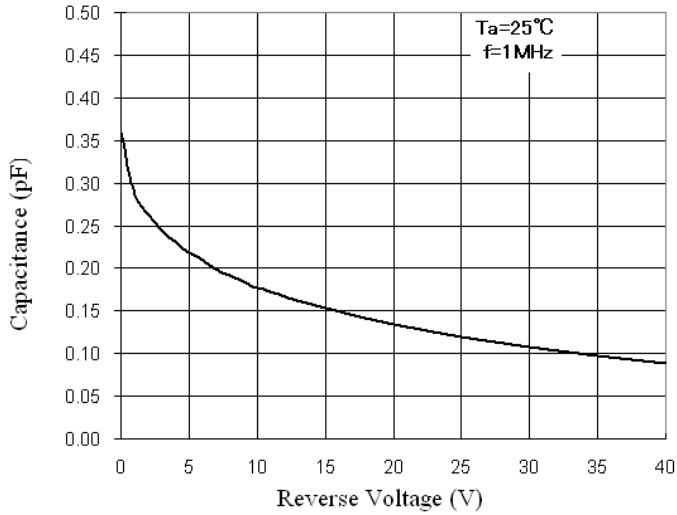


Fig.2 Forward Voltage vs Ambient Temperature

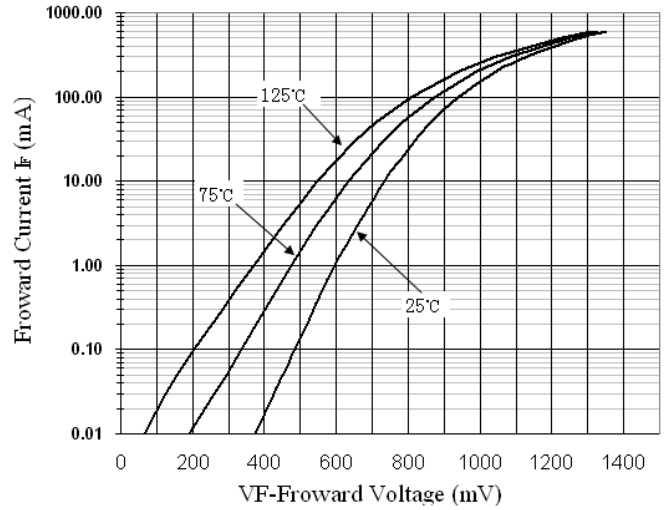
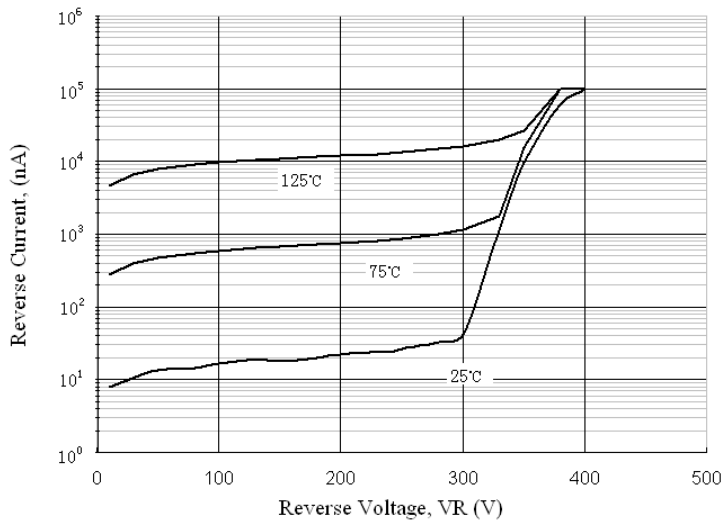


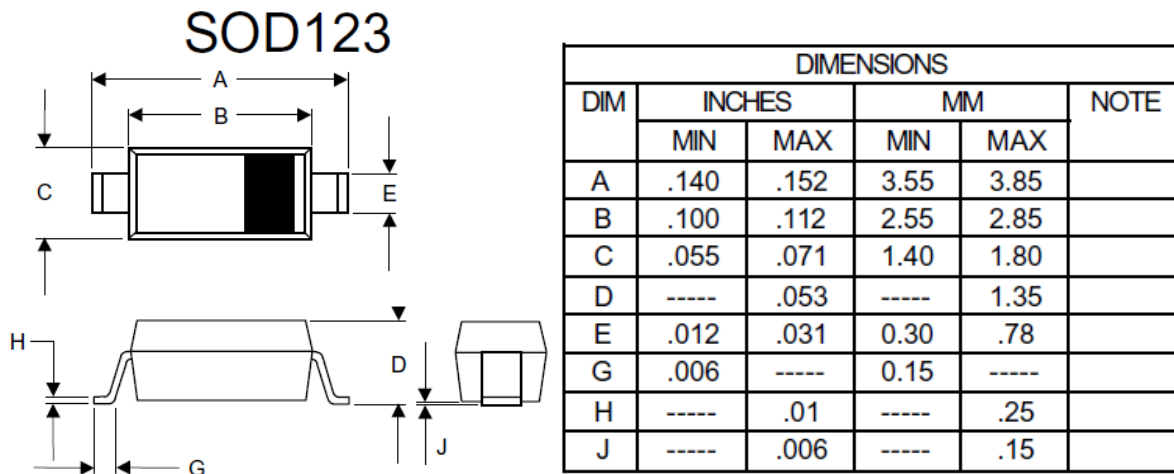
Fig.3 Reverse Current vs Reverse Voltage



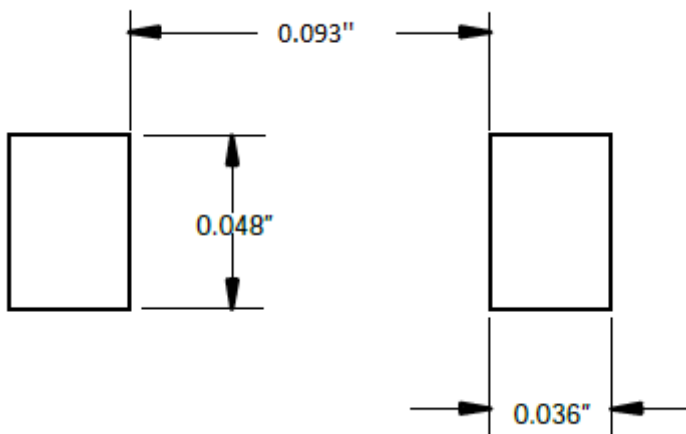


## BAV19W THRU BAV21W

### ■ Outline Dimensions



### ■ Soldering Footprint



Unit: inch



## BAV19W THRU BAV21W

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