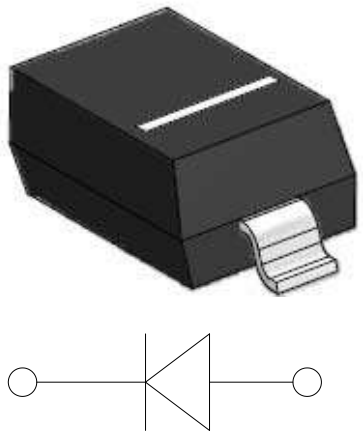
RoHS COMPLIANT

BAV19W THRU BAV21W

Small-Signal Switching Diodes



Features

- VR 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 (Ta=25℃ 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	℃		-65 to +150	
Storage temperature range	T_{stg}	℃		-65 to +150	

■Electrical Characteristics（Ta=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	Conditions		VALUE
Maximum Forward voltage	V_F	V	I_F=100mA		1.0
			I_F=200mA		1.25
Maximum Reverse current	I_R	nA	BAV19W	VR=100V	100
			BAV20W	VR=150V	
			BAV21W	VR=200V	
Minimum Breakdown voltage	$V_{(BR)}$	V	BAV19W	I_R=10uA	100
			BAV20W	I_R=10uA	150
			BAV21W	I_R=10uA	200
Maximum Diode capacitance	C_D	pF	V_R=0V, f =1MHz		5
Maximum Reverse recovery time	t_{rr}	ns	IF=IR=30 mA,RL=100Ω,IRR=3mA		50

■Ordering Information (Example)

PREFERED 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

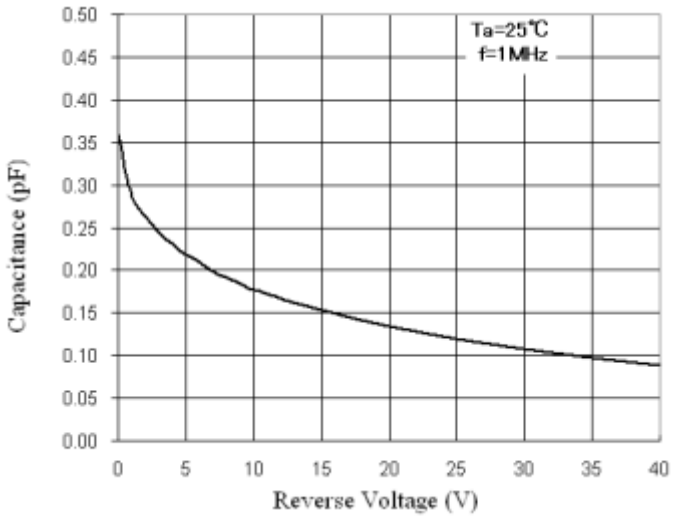


Fig.2 Forward Voltage vs Ambient Temperature

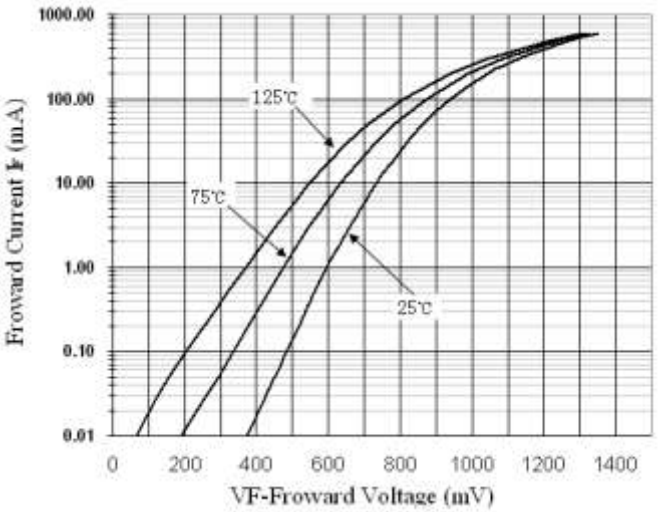
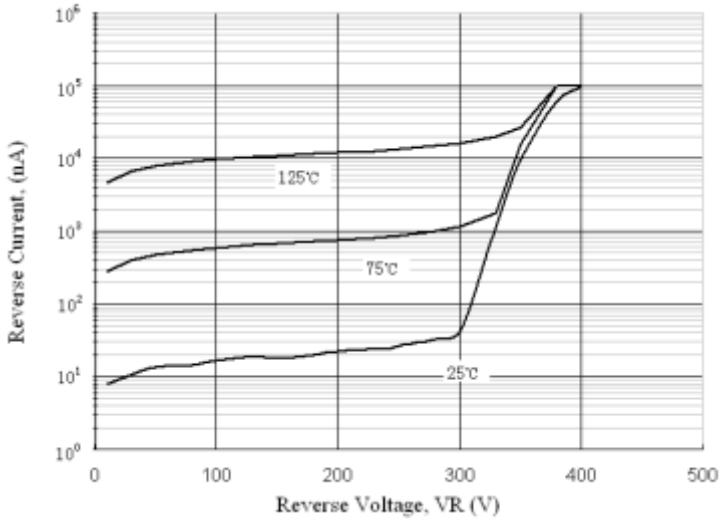
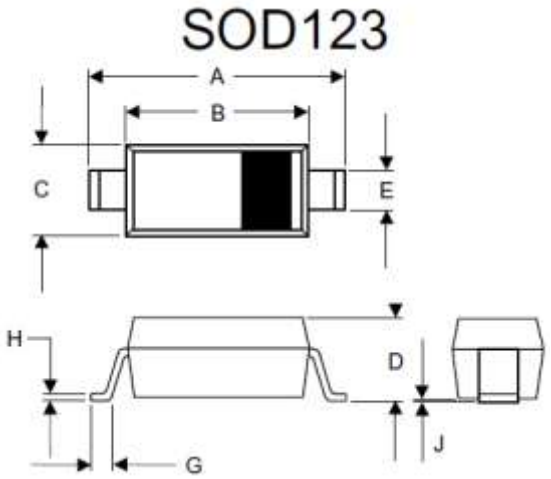


Fig.3 Reverse Current vs Reverse Voltage

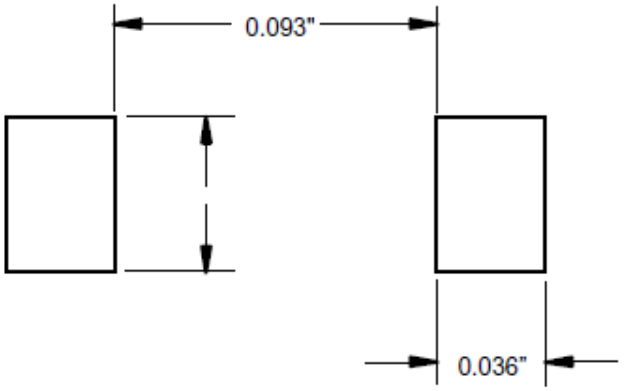


■ Outline Dimensions



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	-----	.053	-----	1.35	
E	.012	.031	0.30	.78	
G	.006	-----	0.15	-----	
H	-----	.01	-----	.25	
J	-----	.006	-----	.15	

■ Soldering Footprint



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