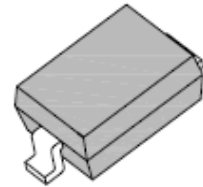


Two Terminals SMD Switching Diodes

Features

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Electrically Identical to Standard JEDEC
- High conductance
- RoHS compliant



SOD-123



Mechanical Data

Case:	SOD-123, Plastic Case
Terminals:	Solderable per MIL-STD-750, Method 2026
Weight:	Approx. 0.0104 gram

Maximum Ratings *(T_{Ambient}=25°C unless noted otherwise)*

Symbol	Description	BAV19W	BAV20W	BAV21W	Unit	Conditions
	Marking Code	A8	A80	A82		
V_R	Reverse Voltage	100	150	200	V	
V_{RRM}	Peak Reverse Voltage	120	200	250	V	
I_{F(AV)}	Average Forward Rectified Current	0.2			A	Half Wave Rectification with Resistive Load and f _z ≥50Hz
I_{FSM}	Peak Forward Surge Current	4			A	t=1.0ms
P_D	Power Dissipation	410			mW	Derate above 25° C
R_{thJA}	Thermal Resistance from Junction to Ambient Air	450			° C/W	
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to +150			° C	

Two Terminals SMD Switching

BAV19W/BAV20W/BAV21W

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	BAV19W	BAV20W	BAV21W	Unit	Conditions
V_F	Forward Voltage	1.0			V	I _F =0.1A
I_R	DC Reverse Current at Rated DC Blocking Voltage	0.1@100V	0.1@150V	0.1@200V	μA	T _J =25° C
C_T	Total Capacitance	5.0			pF	V _R =0V, f=1.0MHz
T_{rr}	Reverse Recovery Time	50			nS	From I _F =10mA to I _R =1mA, V _R =6V R _L =100Ω

Typical Characteristics Curves

Fig.1- Power Derating Curve

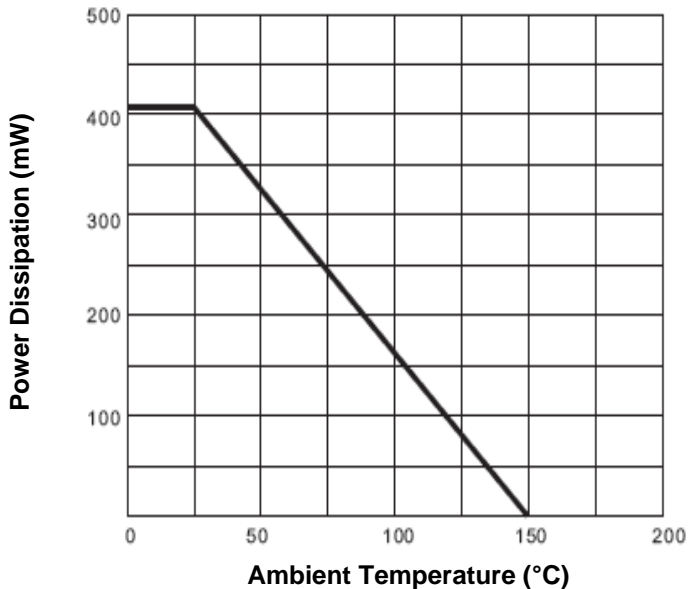
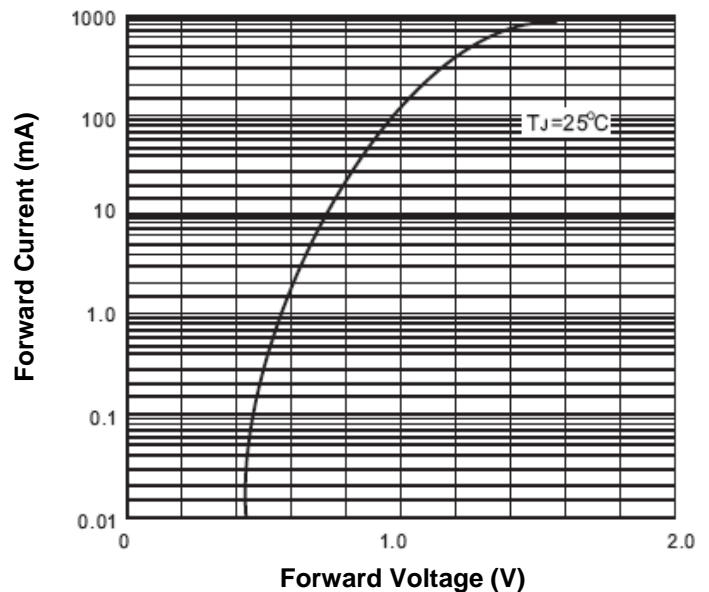


Fig.2- Typical Forward Characteristics



Two Terminals SMD Switching

BAV19W/BAV20W/BAV21W

Fig.3-Leakage Current vs. Junction Temperature

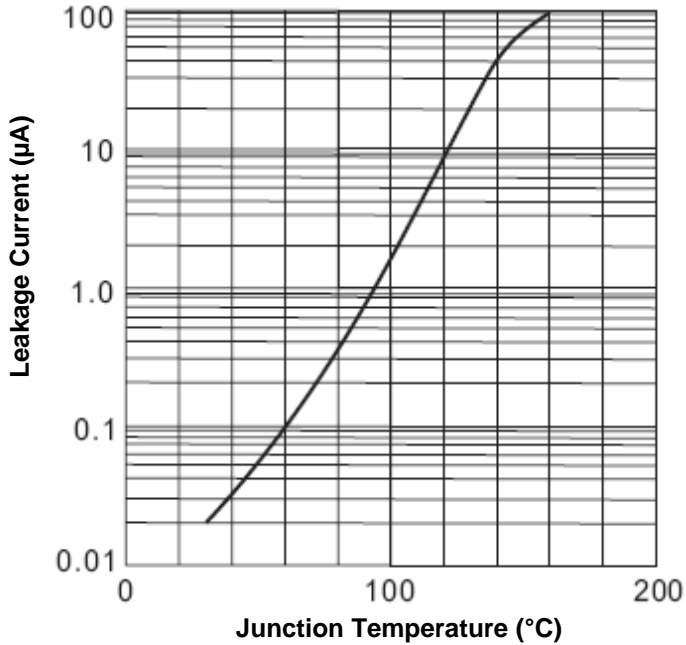
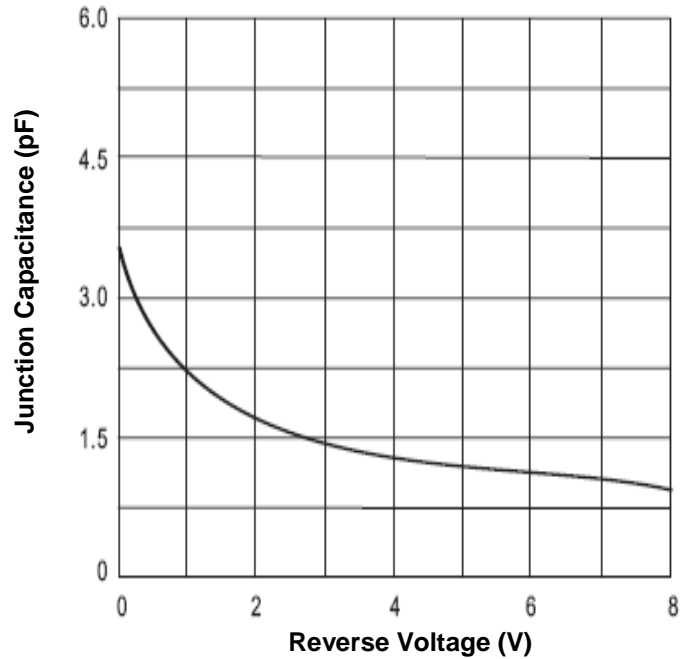
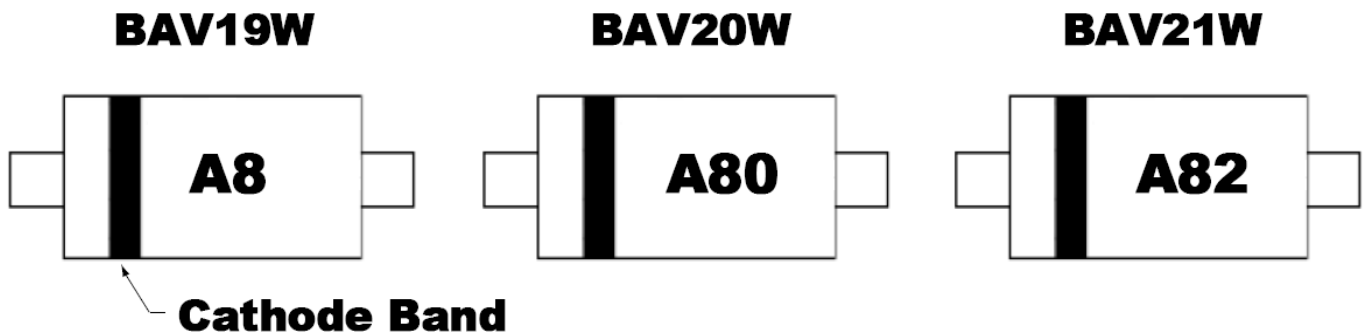


Fig.4- Typical Junction Capacitance



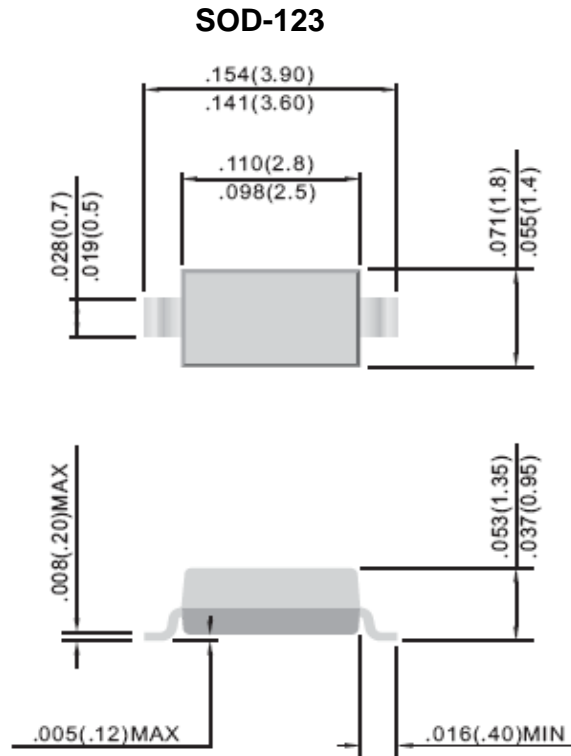
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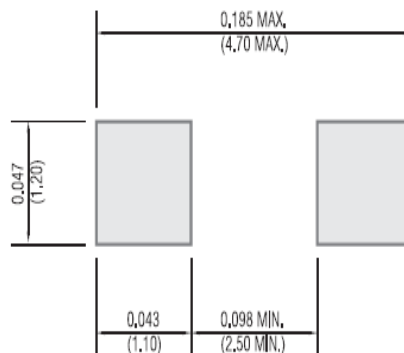
Two Terminals SMD Switching

BAV19W/BAV20W/BAV21W

Dimensions in inch (mm)



Mounting Pad Layout in inch (mm)



Two Terminals SMD Switching

BAV19W/BAV20W/BAV21W

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