



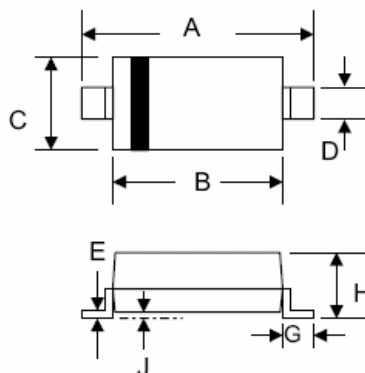
THE DATASHEET OF BAV21WT/R

Technical Data

Data Sheet N0591, Rev. -

Features

- High Conductance
- Fast Switching
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose and Switching
- Plastic Material – UL Recognition Flammability Classification 94V-O
- This is a Pb - Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



SOD-123				
Dim	Min	Max	Min	Max
A	3.6	3.9	0.14	0.154
B	2.5	2.8	0.098	0.110
C	1.4	1.8	0.055	0.070
D	0.5	0.7	0.020	0.028
E	—	0.2	—	0.008
G	0.4	—	0.016	—
H	0.95	1.35	0.037	0.053
J	—	0.12	—	0.005
In mm			In inch	

Mechanical Data

- Case: SOD-123, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.01 grams (approx.)
- Marking: BAV19W A8
BAV20W A80
BAV21W A82

Maximum Ratings @T_A=25°C unless otherwise specified

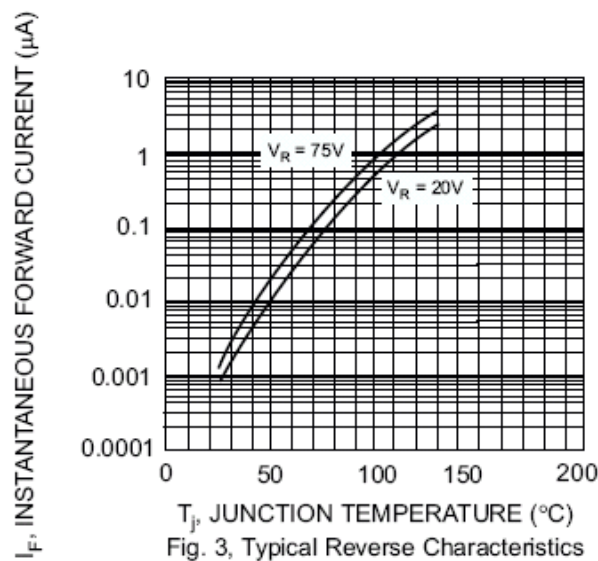
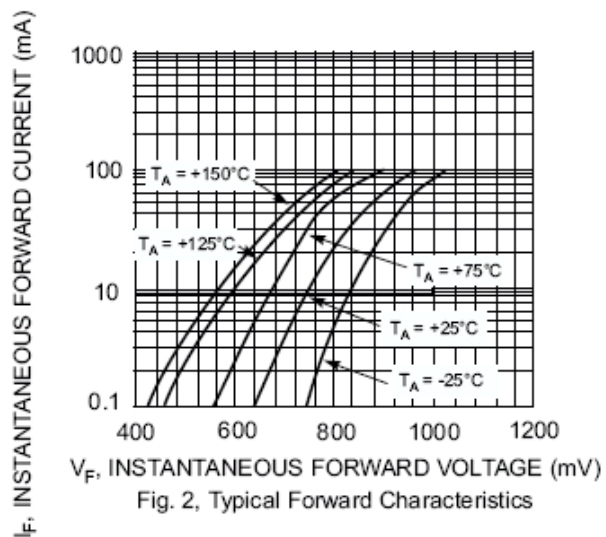
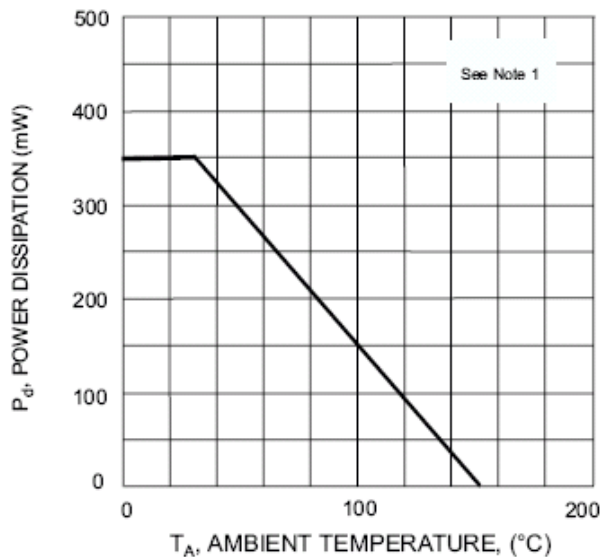
Characteristic	Symbol	BAV19W	BAV20W	BAV21W	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	120	200	250	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	100	150	200	V
RMS Reverse Voltage	V _{R(RMS)}	70	105	140	V
Forward Continuous Current (Note 1)	I _{FM}	400			mA
Average Rectified Output Current (Note 1)	I _O	200			mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0ms @ t = 1.0s	I _{FSM}	2.5 0.5			A
Power Dissipation	P _d	410			mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	R _{θJA}	500			K/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150			°C



Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

Characteristic	Symbol	BAV19W	BAV20W	BAV21W	Unit
Forward Voltage Drop @ $I_F = 100\text{mA}$	V_{FM}	1.0			V
Peak Reverse Leakage Current At Rated DC Blocking Voltage	I_{RM}	100	150	200	nA
Typical Junction Capacitance ($V_R = 0\text{V DC}$, $f = 1.0\text{MHz}$)	C_j	5.0			pF
Reverse Recovery Time (Note 2)	t_{rr}	50			nS

Note: 1. Valid provided that terminals are kept at ambient temperature.
2. Measured with $I_F = I_R = 30\text{mA}$, $I_{RR} = 0.1 \times I_R$, $R_L = 100\Omega$.



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