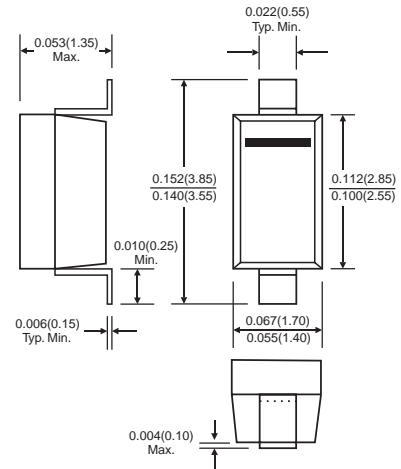




SOD-123



Features

- ✧ Fast Switching Speed
- ✧ Surface Mount Package Ideally Suited for Automatic Insertion
- ✧ For General Purpose Switching Applications

Mechanical Data

- ✧ Case: SOD-123, Molded Plastic
- ✧ Case Material: UL Flammability Rating Classification 94V-0
- ✧ Polarity: Cathode Band
- ✧ Type Code: BAV19W: A8 or T2 or T3
BAV20W: T2 or T3
BAV21W: T3
- ✧ Weight: 0.01 grams (approx.)

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

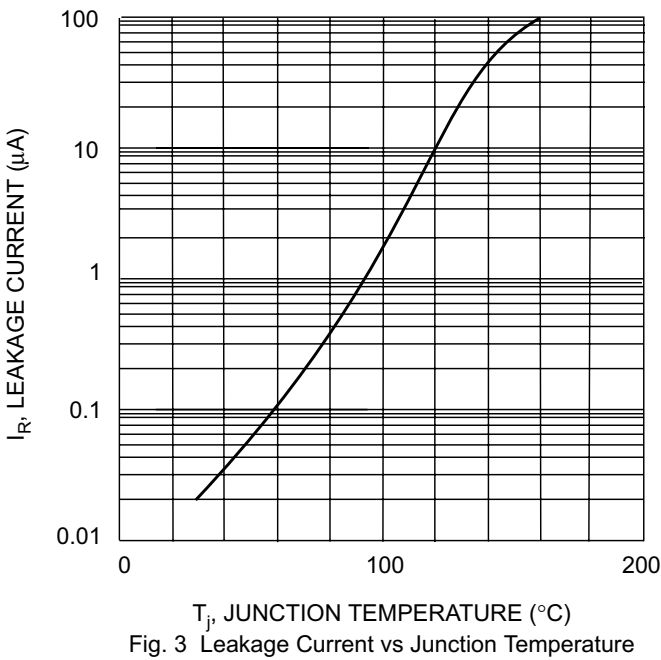
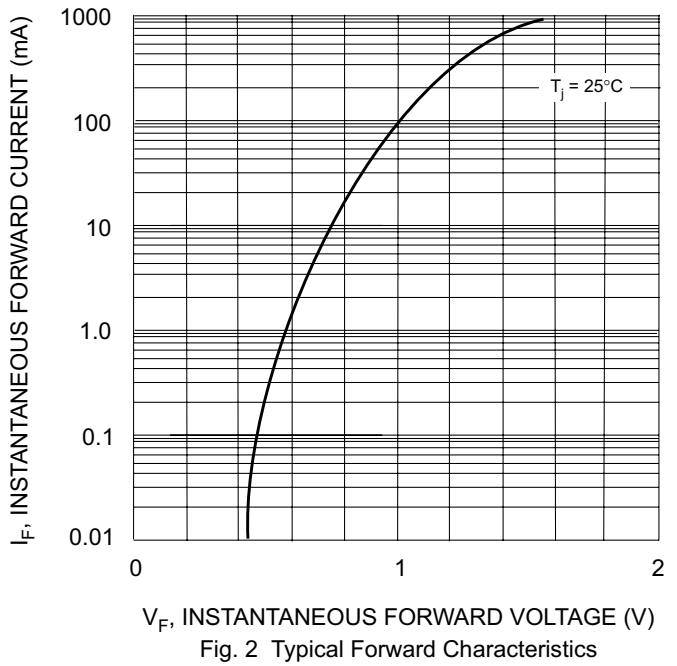
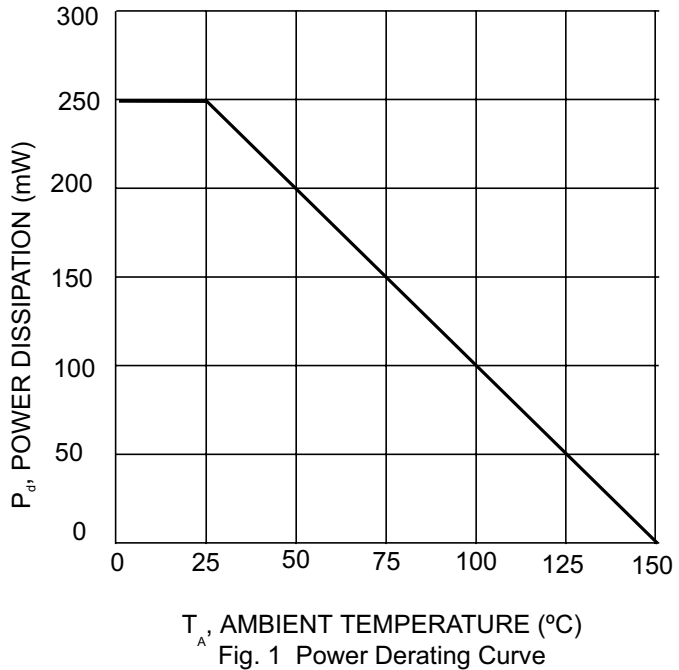
Maximum Ratings

Characteristic	Symbol	BAV19W	BAV20W	BAV21W	Unit
Peak Repetitive Reverse Voltage	VRRM	120	200	250	V
Working Peak Reverse Voltage DC Blocking Voltage	V _{RWM} V _R	100	150	200	V
RMS Reverse Voltage	V _{R(RMS)}	71	106	141	V
Forward Continuous Current	I _{FM}	400			mA
Average Rectified Output Current	I _O	200			mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0ms @ t = 1.0s	I _{FSM}	2.5 0.5			A
Repetitive Peak Forward Surge Current	I _{FRM}	625			mA
Power Dissipation (Note 2)	P _d	250			mW
Thermal Resistance Junction to Ambient Air (Note 2)	R _{θJA}	500			°C/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +150			°C

Electrical Characteristics

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 1) BAV19W BAV20W BAV21W	V _{(BR)R}	120 200 250	—	V	I _R = 100μA
Forward Voltage (Note 1)	V _{FM}	—	1.0 1.25	V	I _F = 100mA I _F = 200mA
Peak Reverse Current @ Rated DC Blocking Voltage (Note 1)	I _{RM}	—	100 15	nA μA	T _j = 25°C T _j = 100°C
Total Capacitance	C _T	—	5.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}	—	50	ns	I _F = I _R = 30mA, I _{rr} = 0.1 x I _R , R _L = 100Ω

Notes: 1. Short duration pulse test used to minimize self-heating effect.



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SOD-123	3000/REEL	90000	40X20X22	5.00	4.00

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