



BAV19W THRU BAV21W

Surface Mount Switching Diode



Voltage Range
100/150/200 Volts
250m Watts Power Dissipation

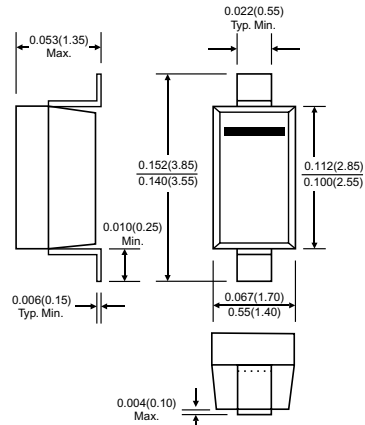
Features

- ✧ Fast switching speed
- ✧ Surface mount package ideally suited for automatic insertion
- ✧ For general purpose switching applications

Mechanical Data

- ✧ Case: SOD-123, Molded plastic
- ✧ Terminals: Solderable per MILL-STD-202, Method 208
- ✧ Polarity: Cathode Band
- ✧ Marking: Date Code and Type Code or Date Code only
- ✧ Type Code: BAV19W A8
BAV20W T2
BAV21W T3
- ✧ Weight: 0.01 grams (approx.)

SOD-123



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

Type Number	Symbol	BAV19W	BAV20W	BAV21W	Units
Repetitive Peak Reverse Voltage	VRRM	120	200	250	V
Working Peak Reverse Voltage	VRWM				
DC Blocking Voltage	VR	100	150	200	V
RMS Reverse Voltage	VR(RMS)	71	106	141	V
Forward Continuous Current (Note 1)	IFM		400		mA
Average Rectifier Output Current (Note 1)	Io		200		mA
Non-Repetitive Peak Forward Surge Current @ t=1.0uS @ t=1.0S	IFSM		2.5 0.5		A
Repetitive Peak Forward Surge Current	IFRM		625		mA
Power Dissipation (Note 1)	Pd		250		mW
Thermal Resistance Junction to Ambient Air (Note 1)	RθJA		500		K/W
Operating and Storage Temperature Range	T _J , T _{STG}		-65 to + 150		°C

Electrical Characteristics

Type Number	Symbol	Min	Max	Units
Forward Voltage (Note 3) IF=100mA IF=200mA	V _F	-	1.0 1.25	V
Peak Reverse Current (Note 3) T _j =25 °C T _j =100°C	I _R	-	100 15	nA uA
Junction Capacitance VR=0, f=1.0MHz	C _j	-	5.0	pF
Reverse Recovery Time (Note 2)	t _{rr}	-	50	nS

- Notes: 1. Valid Provided that Terminals are Kept at Ambient Temperature.
2. Reverse Recovery Test Conditions: IF=IR=10mA, Irr=0.1 x IR, RL=100Ω.
3. Short Duration Pulse Test used to Minimize Self-Heating Effect.

RATINGS AND CHARACTERISTIC CURVES (BAV19W THRU BAV21W)

FIG.1- FORWARD CHARACTERISTICS

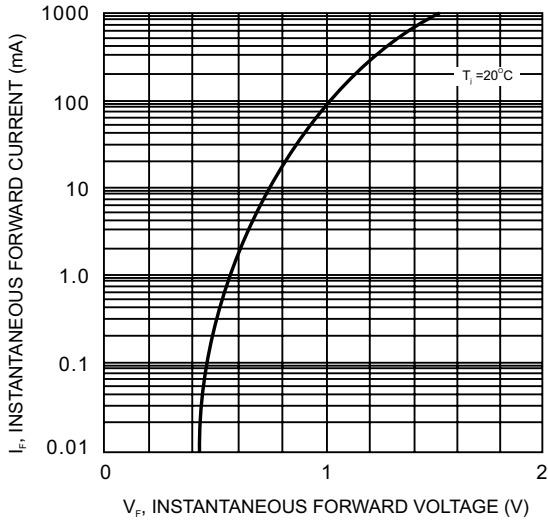


FIG.2- LEAKAGE CURRENT VS JUNCTION TEMPERATURE

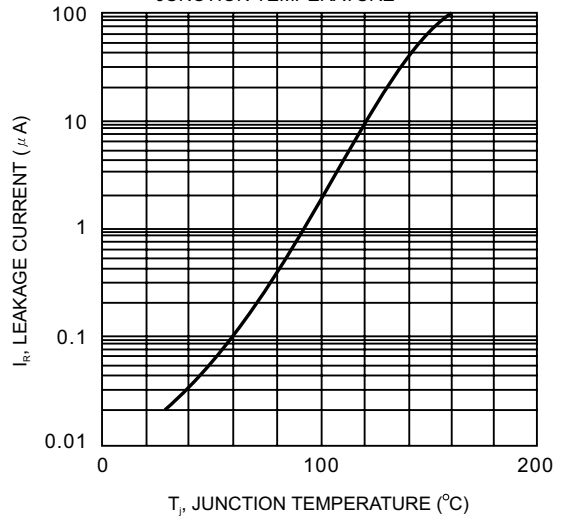
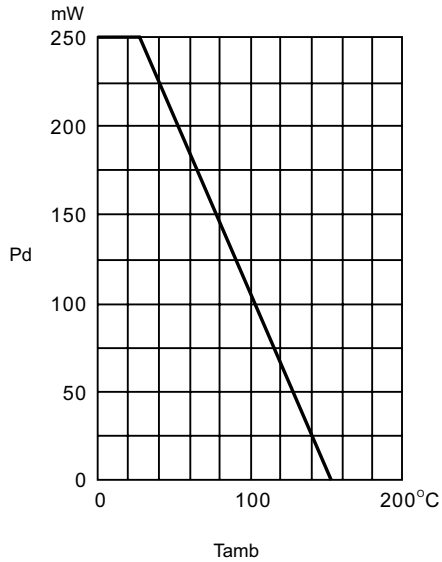


FIG.3- ADMISSIBLE POWER DISSIPATION VS AMBIENT TEMPERATURE





LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.