

SWITCHING DIODE

FEATURES

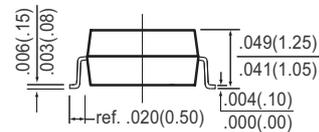
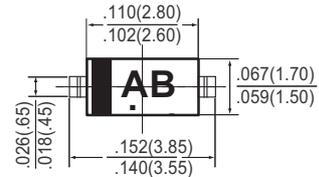
- * Fast switching devices
- * Matte Tin (Sn) Lead finish

MECHANICAL DATA

- * Case: SOD123 Molded plastic
- * Epoxy: Device has UL flammability classification 94V-0



SOD123



Dimensions in inches and (millimeters)

Device Marking Code

BAV19W	AB
BAV20W	T2
BAV21W	T3

Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	BAV19W	BAV20W	BAV21W	Units
V_{RM}	Non- Repetitive Peak Reverse Voltage	120	200	250	V
V_{RRM}	Repetitive Peak Reverse Voltage	100	150	200	V
$V_{R(RMS)}$	RMS Reverse Voltage	71	106	141	V
I_0	Average Rectified Output Current	200			mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current (@ t=1.0us)	2.0			A
P_D	Power Dissipation	400			mW
T_J	Junction Temperature	- 65 to +150			°C
T_{STG}	Storage Temperature	- 65 to +150			°C

Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Test Conditions	Max	Units
V_F	Forward Voltage	$I_F=100mA$ $I_F=200mA$	1 1.25	V
I_R	Reverse current	$V_R=100V$ BAV19W $V_R=150V$ BAV20W $V_R=200V$ BAV21W	0.1 0.1 0.1	uA
Ctot	Total capacitance	$V_R=0V, f=1MHz$	5	pF
trr	Reverse recovery time	$I_R=30mA, I_{rr}=0.1I_R, R_L=100\Omega$	50	ns

PACKAGING OF DIODE

REEL PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SOD-123	-T	3,000	---	---	178	438*438*220	180,000	9.00

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