RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

BAV19W THRU BAV21W

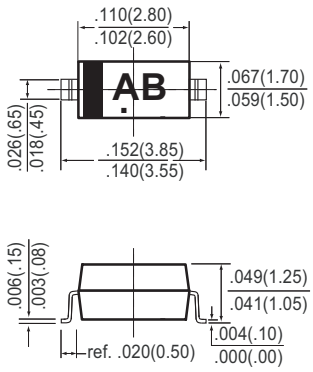
SWITCHING DIODE

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

MECHANICAL DATA
* Case: SOD123 Molded plastic
* Epoxy: Device has UL flammability classification 94V-O



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			℃
T_{STG}	Storage Temperature	-65 to +150			℃

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 V_R=150V V_R=200V	BAV19W BAV20W 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, Irr=0.1*I_R, R_L=100Ω		50	ns

2018-12/03
REV: O

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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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