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Part Number	BAV21W
product family	SWITCHING DIODES
package type	SOD-123
VRM(PRV)	250V
Ifsm	1.0V
IF(AV)	200mA
@Vf	1.0V
@If	100mA
Trr	50ns
IR	100nA
@VR	200V
Package Qty	Tape : 3K/Reel , 120K/Ctn;

This product is listed under the following categories where you may find similar products:

[Diodes](#)

[Switching Diodes](#)

## Features

- Silicon Epitaxial Planar Diodes
- For General Purpose
- This diode is also available in other case.
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

## Mechanical Data

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking code: BAV19W=A8  
BAV20W=T2 or A80  
BAV21W=T3 or A82

## Maximum Ratings

Symbol	Rating	Rating	Unit
$V_R$	Continuous Reverse Voltage	BAV19W 100 BAV20W 150 BAV21W 200	V
$V_{RRM}$	Repetitive Peak Reverse Voltage	BAV19W 120 BAV20W 200 BAV21W 250	V
$I_F$	Forward DC Current at $T_{amb}=25^{\circ}C^{(1)}$	250	mA
$I_{F(AV)}$	Rectified Current (Average) Half Wave Rectification with Resist. Load at $T_{amb}=25^{\circ}C^{(1)}$	200	mA
$I_{FRM}$	Repetitive Peak Forward Current at $f>50Hz$ , $T_{amb}=25^{\circ}C^{(1)}$	625	mA
$I_{FSM}$	Surge Forward Current at $t<1s$ , $T_j=25^{\circ}C$	1.0	A
$P_{tot}$	Power Dissipation at $T_{amb}=25^{\circ}C^{(1)}$	410	mW
$R_{JA}$	Thermal Resistance Junction to Ambient Air	375	mW
$T_J$	Junction Temperature	-55 to +150	$^{\circ}C$
$T_{STG}$	Storage Temperature	-55 to +150	$^{\circ}C$

## Electrical Characteristics @ 25°C Unless Otherwise Specified

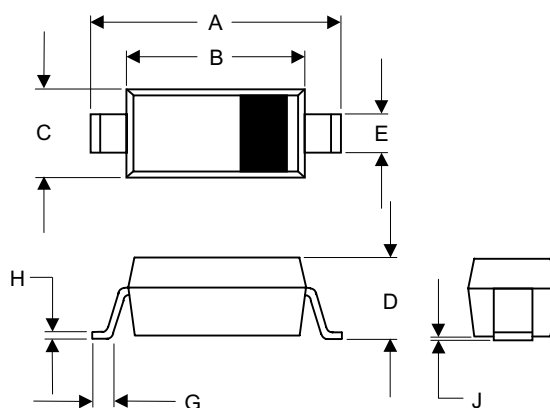
Symbol	Parameter	Min	Typ	Max	Units
$V_F$	Forward Voltage ( $I_F=100mA$ ) ( $I_F=200mA$ )	---	---	1.00 1.25	V
$I_R$	Leakage Current ( $V_R=100V$ ) ( $V_R=100V$ , $T_j=100^{\circ}C$ ) ( $V_R=150V$ ) ( $V_R=150V$ , $T_j=100^{\circ}C$ ) ( $V_R=200V$ ) ( $V_R=200V$ , $T_j=100^{\circ}C$ )	---	---	100 15 100 15 100 15	nA uA nA uA nA uA
$r_f$	Dynamic Forward Resistance ( $I_F=10mA$ )	---	5.0	---	OHM
$C_{tot}$	Capacitance ( $V_R=0$ , $f=1.0MHz$ )	---	1.5	---	pF
$t_{rr}$	Reverse Recovery Time ( $I_F=30mA$ , $I_R=30mA$ ) ( $I_{rr}=3.0mA$ , $R_f=100OHMS$ )	---	---	50	ns

Notes: 1. Valid provided that leads are kept at ambient temperature

# BAV19W THRU BAV21W

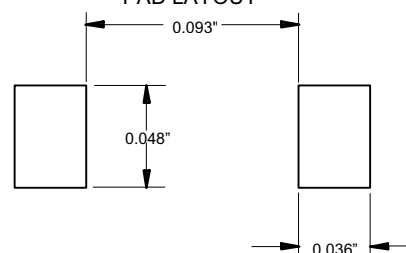
**410mW**  
**Small Signal**  
**Diodes**  
**120 to 250 Volts**

## SOD123



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	----	.053	----	1.35	
E	.012	.031	0.30	.78	
G	.006	----	0.15	----	
H	----	.01	----	.25	
J	----	.006	----	.15	

### SUGGESTED SOLDER PAD LAYOUT



## Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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