



Micro Commercial Components Corp.

Complete Discrete Semiconductor Solutions

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Part Number	BAV19W
product family	SWITCHING DIODES
package type	SOD-123
VRM(PRV)	120V
Ifsm	1.0A
IF(AV)	200mA
@Vf	1.0V
@If	100mA
Trr	50ns
IR	100nA
@VR	100V
Package Qty	Tape : 3K/Reel , 120K/Ctn;

This product is listed under the following categories where you may find similar products:
[Diodes](#)
[Switching Diodes](#)

BAV19W THRU BAV21W

410mW
Small Signal
Diodes
120 to 250 Volts

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

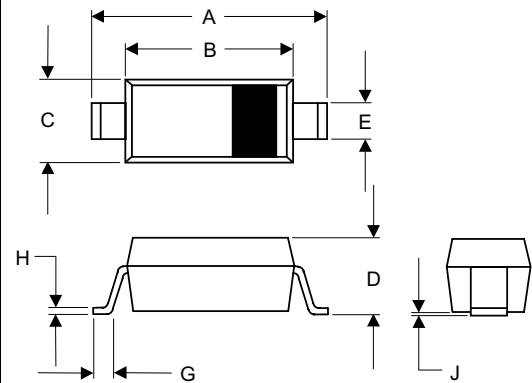
Symbol	Rating	Rating	Unit	
V_R	Continuous Reverse Voltage	BAV19W BAV20W BAV21W	100 150 200	V
	Repetitive Peak Reverse Voltage	BAV19W	120	V
		BAV20W	200	
BAV21W		250		
I_F	Forward DC Current at $T_{amb}=25^{\circ}C^{(1)}$		250	mA
$I_{F(AV)}$	Rectified Current (Average) Half Wave Rectification with Resist. Load at $T_{amb}=25^{\circ}C^{(1)}$		200	mA
	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/°C
T_j	Junction Temperature		-55 to +150	°C
T_{STG}	Storage Temperature		-55 to +150	°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	V
		---	---	1.25	
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	nA
		---	---	15	uA
		---	---	100	nA
		---	---	15	uA
		---	---	100	nA
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

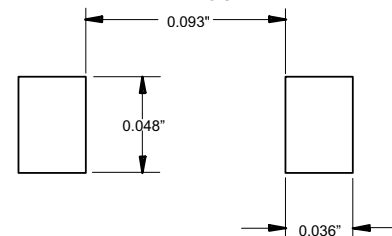
Notes: 1. Valid provided that leads are kept at ambient temperature

SOD123



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	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





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Ordering Information

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

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