



Micro Commercial Components
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BAV19WS THRU BAV21WS

Features

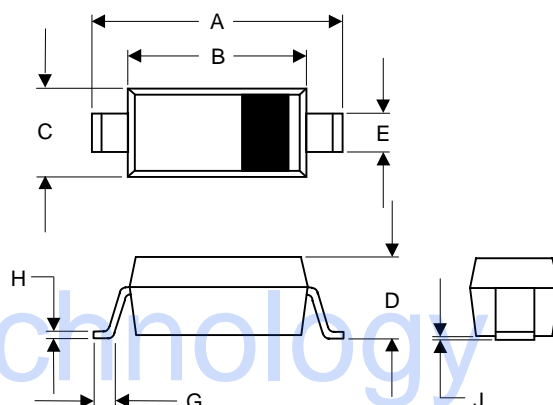
- Silicon Epitaxial Planar Diodes
- For General Purpose
- This diode is also available in other case.

410mW
Small Signal
Diodes
120 to 250 Volts

Mechanical Data

- Case: SOD-323, Molded Plastic
- Weight: approx. 0.01g
- Marking code: BAV19WS=A8
 BAV20WS=T2
 BAV21WS=T3

SOD323



Maximum Ratings

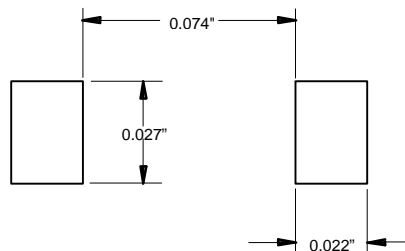
Symbol	Rating	Rating	Unit
V_R	Continuous Reverse Voltage	BAV19WS 100 BAV20WS 150 BAV21WS 200	V
	Repetitive Peak Reverse Voltage	BAV19WS 120 BAV20WS 200 BAV21WS 250	V
		Forward DC Current at $T_{amb}=25^{\circ}C^{(1)}$	250
Rectified Current (Average) Half Wave Rectification with Resist. Load at $T_{amb}=25^{\circ}C^{(1)}$			200
	Repetitive Peak Forward Current at $f>50Hz$, $T_{amb}=25^{\circ}C^{(1)}$		625
		Surge Forward Current at $t<1s$, $T_j=25^{\circ}C$	1.0
Power Dissipation at $T_{amb}=25^{\circ}C^{(1)}$			410
	Thermal Resistance Junction to Ambient Air		375
		Junction Temperature	-55 to +150
Storage Temperature			-55 to +150

DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
V_F	Forward Voltage ($I_F=100mA$)	---	---	1.00	V
		---	---	1.25	V
I_R	Leakage Current ($V_R=100V$)	BAV19WS	---	100	nA
		BAV19WS	---	15	uA
		BAV20WS	---	100	nA
		BAV20WS	---	15	uA
		BAV21WS	---	100	nA
		BAV21WS	---	15	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

SUGGESTED SOLDER PAD LAYOUT

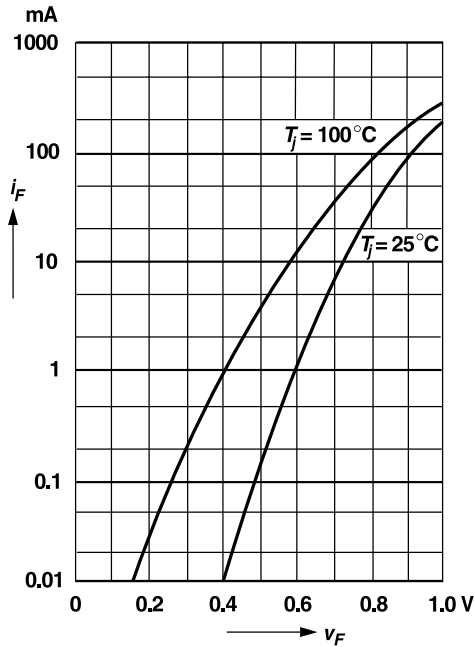


*(1) Valid provided that leads are kept at ambient temperature

BAV19WS thru BAV21WS

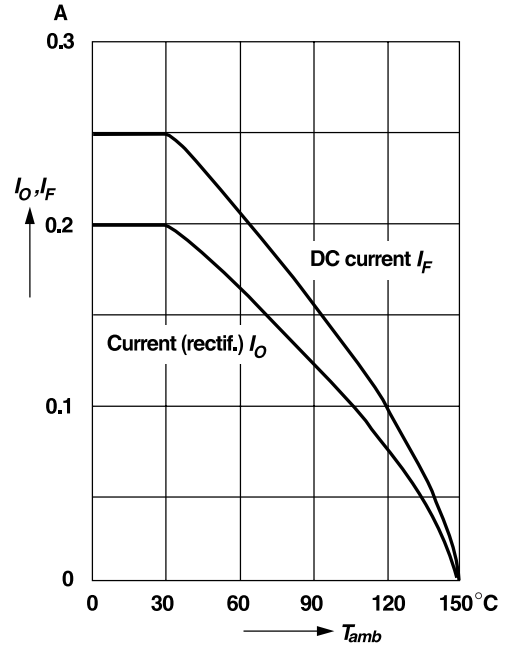


Forward characteristics



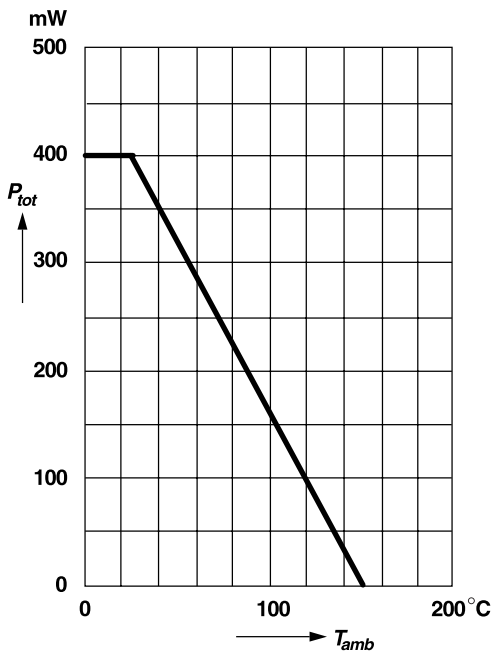
Admissible forward current versus ambient temperature

Valid provided that electrodes are kept at ambient temperature

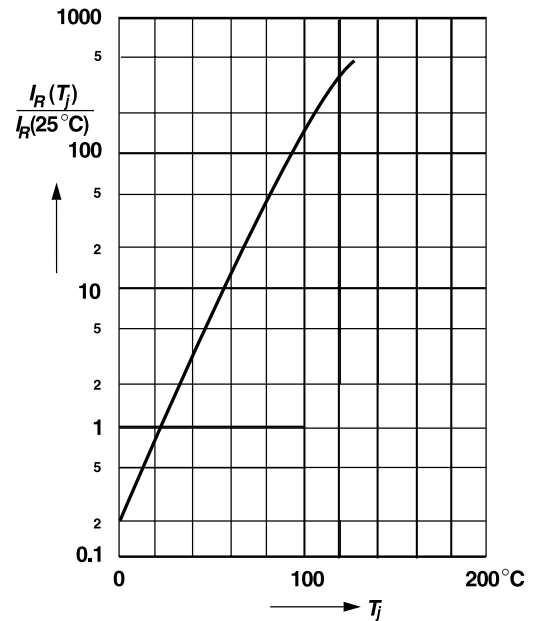


Admissible power dissipation versus ambient temperature

Valid provided that electrodes are kept at ambient temperature



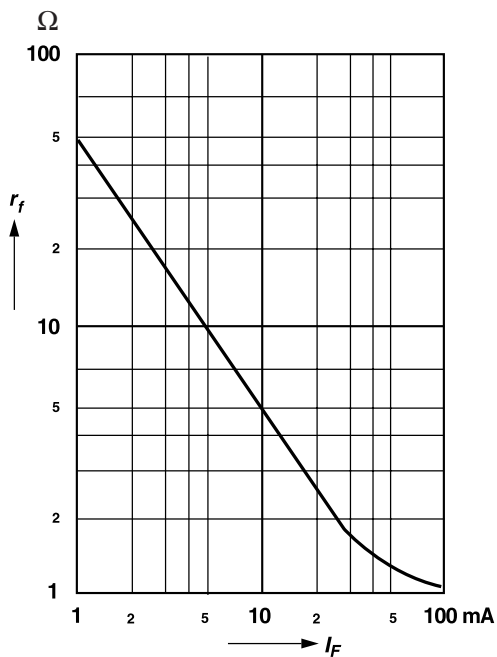
Leakage current versus junction temperature



BAV19WS thru BAV21WS



Dynamic forward resistance versus forward current



Capacitance versus reverse voltage

