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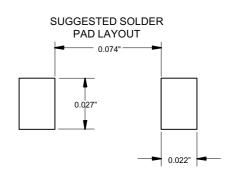
BAV19WS **THRU BAV21WS**

250mW **Small Signal Diodes**

120 to 250 Volts

SOD-323 С

	DIMENSIONS					
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX		
Α	.090	.107	2.30	2.70		
В	.063	.071	1.60	1.80		
С	.045	.053	1.15	1.35		
D	.031	.045	0.80	1.15		
Е	.010	.016	0.25	0.40		
G	.004	.018	0.10	0.45		
Н	.004	.010	0.10	0.25		
J		.006		0.15		



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

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking code: BAV19WS=A8

BAV20WS=T2 BAV21WS=T3

Maximum Ratings

Symbol	Parameters	Rating	Unit
V_R	Continuous Reverse Voltage BAV19WS	100	
	BAV20WS	150	V
	BAV21WS	200	
	Repetitive Peak Reverse Voltage BAV19WS	120	
V_{RRM}	BAV20WS	200	V
	BAV21WS	250	
FSM	Non-Repetitive Peak Forward Surge Current@t=1us	2.5	
	@t=1s	0.5	Α
I _{FM}	Forward Continuous Current (Note1)	400	mA
lo	Average Rectified Out put Current (Note1)	200	mA
I _{FRM}	Repetitive Peak Forward Current at f>50Hz,	625	mA
	Tamb=25 ^o C ⁽¹⁾		
P _{tot}	Power Dissipation at Tamb=25°C(1)	250	mW
Rth_JA	Thermal Resistance Junction to Ambient Air	500	KW
Τ _J	Operating Junction Temperature	-65 to +150	ပ
T_{STG}	Storage Temperature	-65 to +150	တ

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Min	Тур	Max	Units
V_{F}	Forward Voltage	(I _F =100mA)			1.00	V
		$(I_F = 200 \text{mA})$			1.25	V
I_R	Leakage Current					
	(V _R =100V)	BAV19WS			100	nA
	(VR=100V, Tj=100°C)	BAV19WS			15	uA
	(V _R =150V)	BAV20WS			100	nA
	(VR=150V, Tj=100°C)	BAV20WS			15	uA
	(V _R =200V)	BAV21WS			100	nA
	(VR=200V, Tj=100°C)	BAV21WS			15	uA
C _{tot}	Capacitance (V _R =0, f=1.0MHz)			1.5		pF
t _{rr}	Reverse Recovery Time (\$\mu=30mA\$, \$\mu=30mA\$) (Irr=3.0mA\$, \$\mu=1000H\$)				50	ns

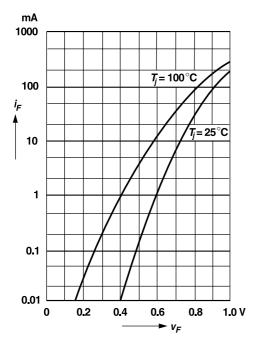
1. Valid provided that leads are kept at ambient temperature

BAV19WS thru BAV21WS



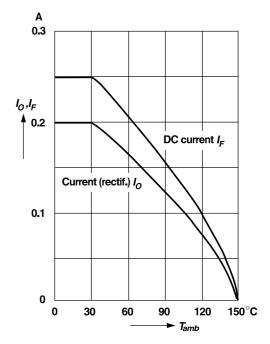
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Forward characteristics



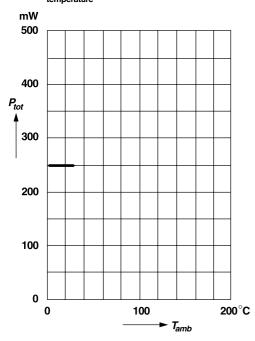
Admissible forward current versus ambient temperature

Valid provided that electrodes are kept at ambient temperature

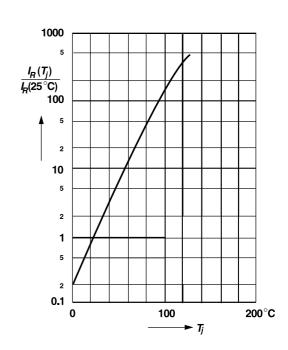


Admissible power dissipation versus ambient temperature

Valid provided that electrodes are kept at ambient



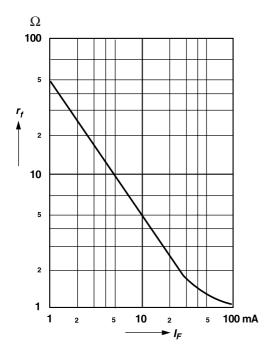
Leakage current versus junction temperature



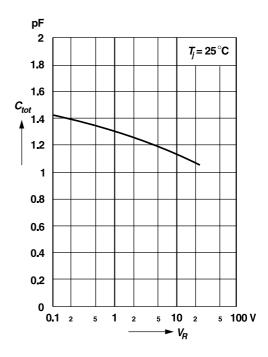
BAV19WS thru BAV21WS



Dynamic forward resistance versus forward current



Capacitance versus reverse voltage





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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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