

Micro Commercial Components

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)

Micro Commercial Components

20736 Marilla Street Chatsworth

(818) 701-4939

Phone: (818) 701-4933

CA 91311

Fax:

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
 - Marking code: BÁV19WS=A8
 - BAV20WS=T2 BAV21WS=T3

Maximum Ratings

Symbol	Parameters	Rating	Unit
	Continuous Reverse Voltage BAV19WS	100	
V _R	BAV20WS	150	V
	BAV21WS	200	
	Repetitive Peak Reverse Voltage BAV19WS	120	
V _{RRM}	BAV20WS	200	V
	BAV21WS	250	
	Non-Repetitive Peak Forward Surge Current@t=1us	2.5	
FSM	@t=1s	0.5	А
I _{FM}	Forward Continuous Current (Note1)	400	mA
Ь	Average Rectified Out put Current (Note1)	200	mA
I _{FRM}	Repetitive Peak Forward Current at f>50Hz, Tamb=25 ^o C ¹⁾	625	mA
Ptot	Power Dissipation at Tamb=25 ^o C ⁽¹⁾	250	mW
Rth _{JA}	Thermal Resistance Junction to Ambient Air	500	KW
TJ	Operating Junction Temperature	-65 to +150	°C
T _{STG}	Storage Temperature	-65 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

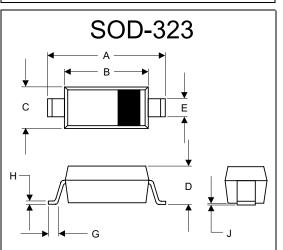
Symbol	Paramete	Min	Тур	Max	Units	
VF	Forward Voltage	(I _F =100mA)			1.00	V
		(I _F =200mA)			1.25	
I _R	Leakage Current					
	(V _R =100V)	BAV19WS			100	nA
	(VR=100V, Tj=100 ^o C)	BAV19WS			15	uA
	(V _R =150V)	BAV20WS			100	nA
	(VR=150V, Tj=100 ^o C)	BAV20WS			15	uA
	(V _R =200V)	BAV21WS			100	nA
	(VR=200V, Tj=100 ^o C)	BAV21WS			15	uA
C _{tot}	Capacitance (V _R =0, f=1.0MHz)			1.5		pF
t _{rr}	Reverse Recovery Time (ڸ=30mA, ڸ=30mA) (Irr=3.0mA, R_=100OHMS)				50	ns

250mW Small Signal Diodes 120 to 250 Volts

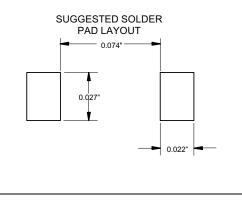
BAV19WS

THRU

BAV21WS



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		

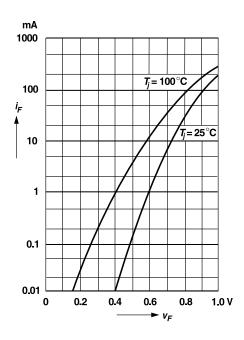


Notes: 1. Valid provided that leads are kept at ambient temperature

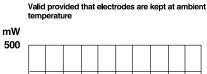
www.mccsemi.com

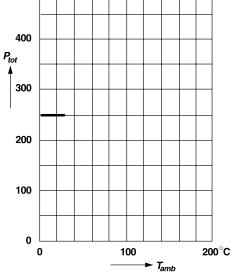
BAV19WS thru BAV21WS

Forward characteristics



Admissible power dissipation versus ambient temperature

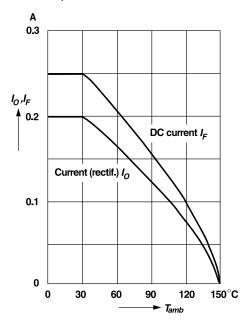




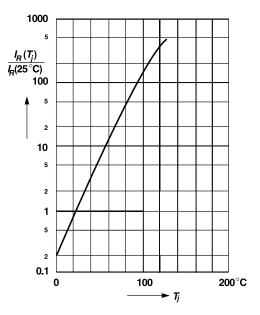
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Admissible forward current versus ambient temperature Valid provided that electrodes are kept at ambient temperature



Leakage current versus junction temperature



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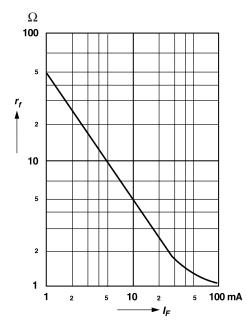
Revision: A

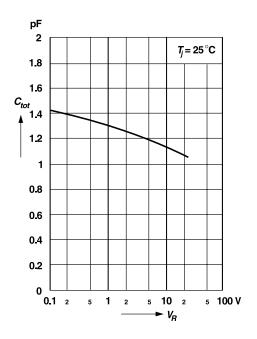
BAV19WS thru BAV21WS



Dynamic forward resistance versus forward current

Capacitance versus reverse voltage





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Revision: A Downloaded from <u>Elcodis.com</u> electronic components distributor 2011/01/01



Ordering Information :

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

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