



Micro Commercial Components

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BAV19WS THRU BAV21WS

Features

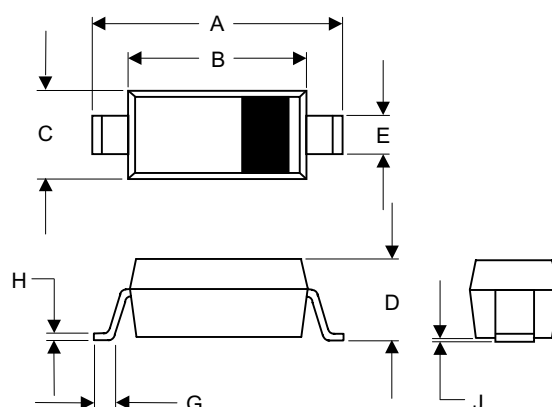
- Silicon Epitaxial Planar Diodes
- For General Purpose
- This diode is also available in other case.
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)

Mechanical Data

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking code: BAV19WS=A8
BAV20WS=T2
BAV21WS=T3

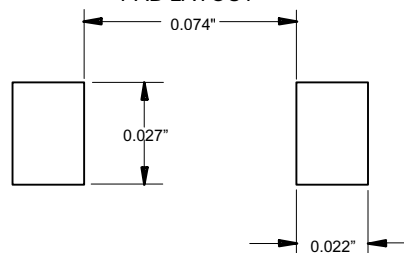
410mW
Small Signal
Diodes
120 to 250 Volts

SOD-323



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	

SUGGESTED SOLDER PAD LAYOUT



Maximum Ratings

Symbol	Rating	Rating	Unit
V_R	Continuous Reverse Voltage	BAV19WS 100 BAV20WS 150 BAV21WS 200	V
V_{RRM}	Repetitive Peak Reverse Voltage	BAV19WS 120 BAV20WS 200 BAV21WS 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	$^{\circ}C$

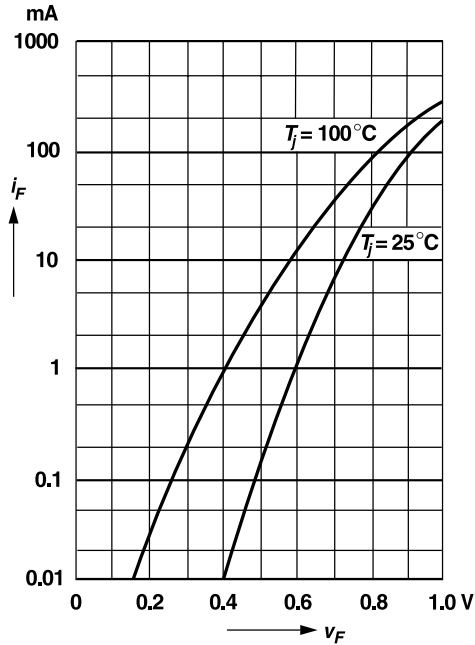
Electrical Characteristics @ 25°C Unless Otherwise Specified

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 ($I_F=30mA, I_R=30mA$) ($I_{rr}=3.0mA, R_L=100OHMS$)	---	---	50	ns

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

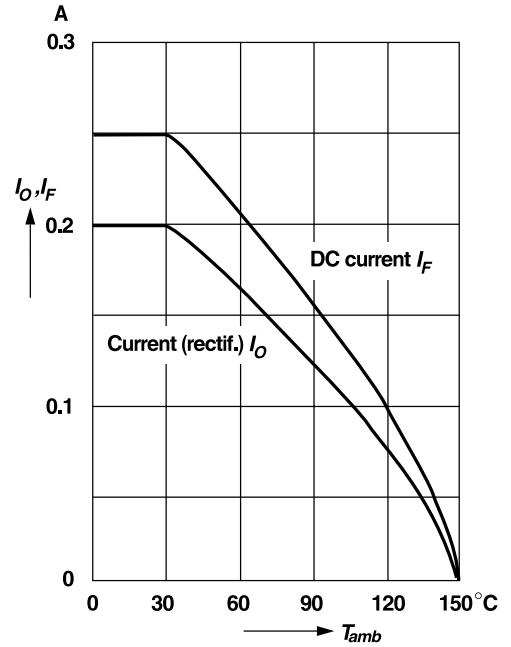
BAV19WS thru BAV21WS

Forward characteristics



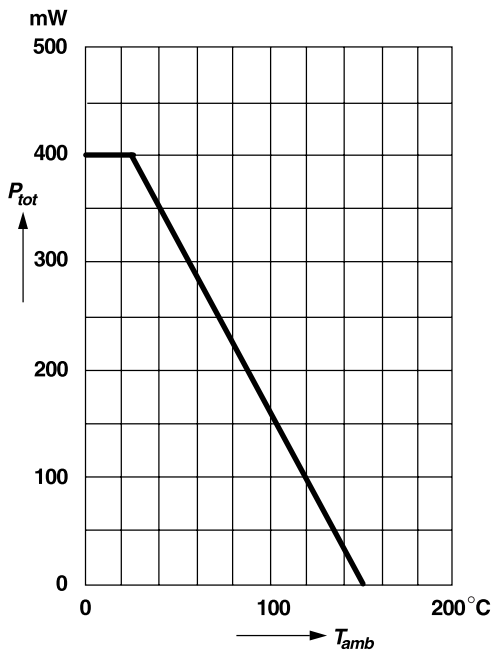
Admissible forward current versus ambient temperature

Valid provided that electrodes are kept at ambient temperature

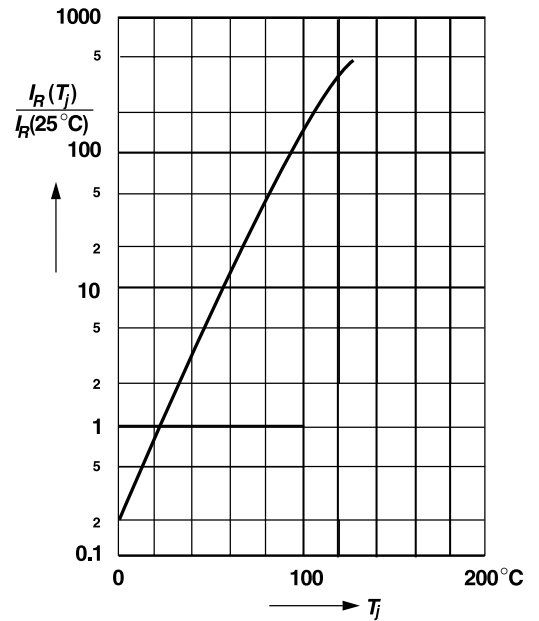


Admissible power dissipation versus ambient temperature

Valid provided that electrodes are kept at ambient temperature

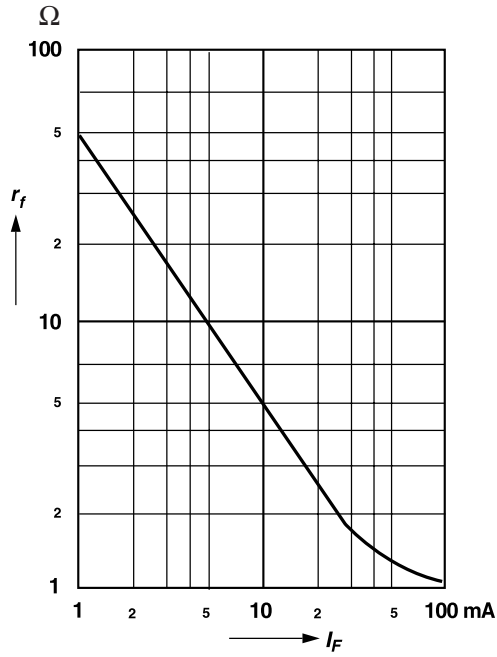


Leakage current versus junction temperature

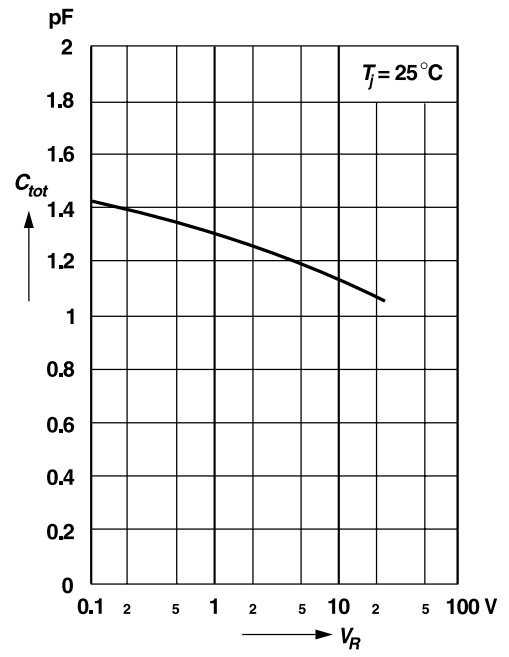


BAV19WS thru BAV21WS

Dynamic forward resistance
versus forward current



Capacitance
versus reverse voltage





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Ordering Information

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

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