

Excellent Integrated System Limited

Stocking Distributor

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[Micro Commercial Components \(MCC\)](#)
[BAV19W-TP](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

MCC

Micro Commercial Components



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**BAV19W
 THRU
 BAV21W**

Features

- Silicon Epitaxial Planar Diodes
- For General Purpose
- This diode is also available in other case.
- Halogen free available upon request by adding suffix "-HF"
- 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: BAV19W=A8
 BAV20W=T2 or A80
 BAV21W=T3 or A82

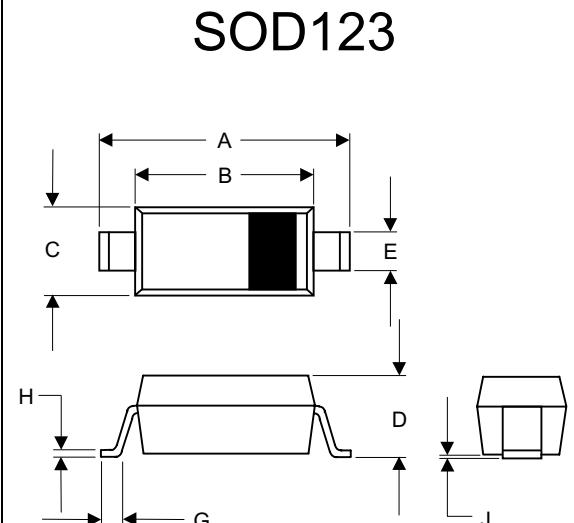
Maximum Ratings

Symbol	Rating	Rating	Unit
V_R	Continuous Reverse Voltage	BAV19W	100
		BAV20W	150
		BAV21W	200
V_{RRM}	Repetitive Peak Reverse Voltage	BAV19W	120
		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
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	305	$^\circ C/W$
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

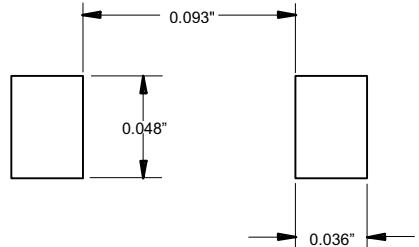
Symbol	Parameter	Min	Typ	Max	Units
V_F	Forward Voltage ($I_F=100mA$) ($I_F=200mA$)	---	---	1.00 1.25	V
I_R	Leakage Current ($V_R=100V$) BAV19W	---	---	100	nA
	($V_R=100V$, $T_j=100^\circ C$) BAV19W	---	---	15	uA
	($V_R=150V$) BAV20W	---	---	100	nA
	($V_R=150V$, $T_j=100^\circ C$) BAV20W	---	---	15	uA
	($V_R=200V$) BAV21W	---	---	100	nA
	($V_R=200V$, $T_j=100^\circ C$) BAV21W	---	---	15	uA
r_f	Dynamic Forward Resistance ($I=10mA$)	---	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



DIM	INCHES		MM		NOTE
	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

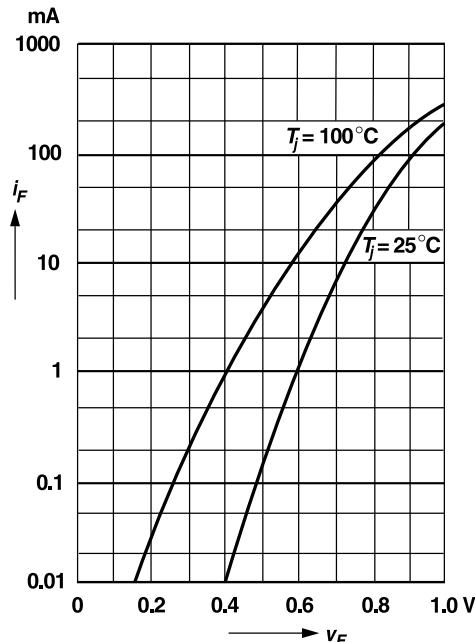


BAV19W thru BAV21W

MCC

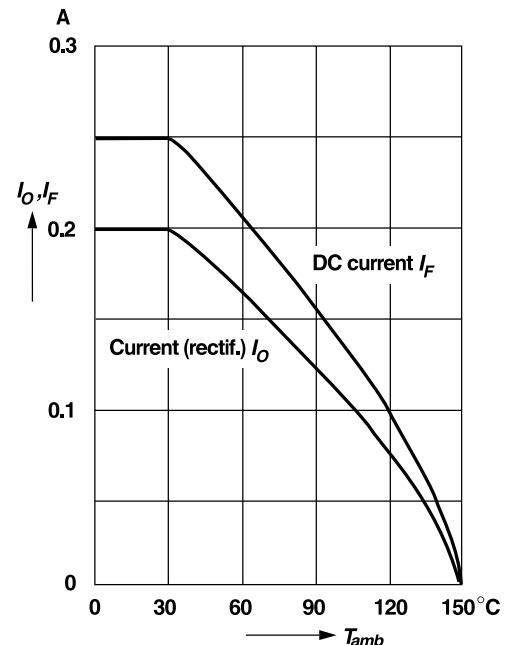
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Forward characteristics



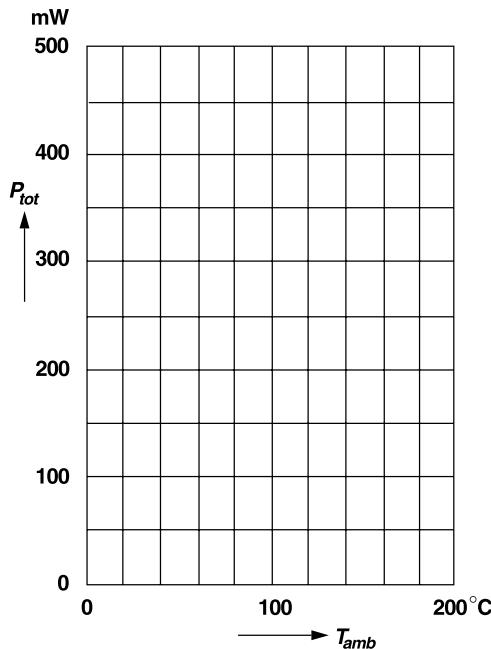
Admissible forward current versus ambient temperature

Valid provided that electrodes are kept at ambient temperature

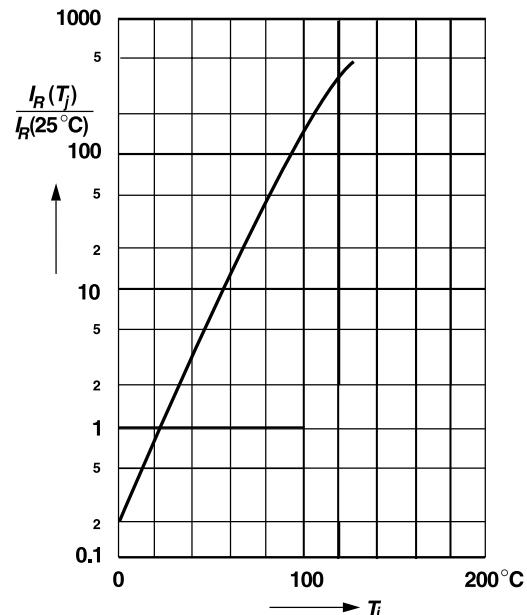


Admissible power dissipation versus ambient temperature

Valid provided that electrodes are kept at ambient temperature



Leakage current versus junction temperature

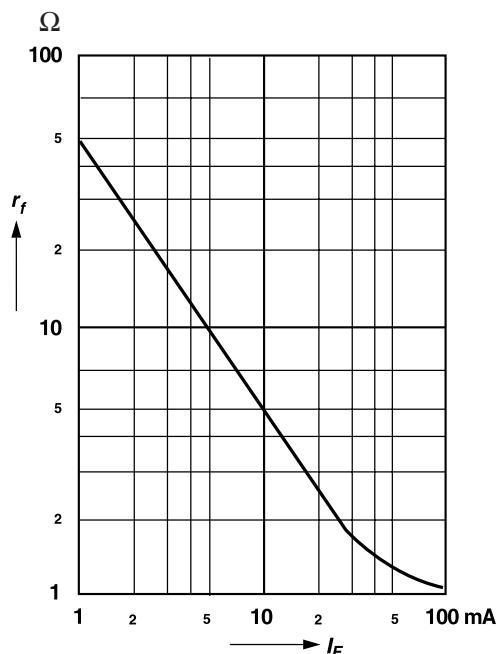


BAV19W thru BAV21W

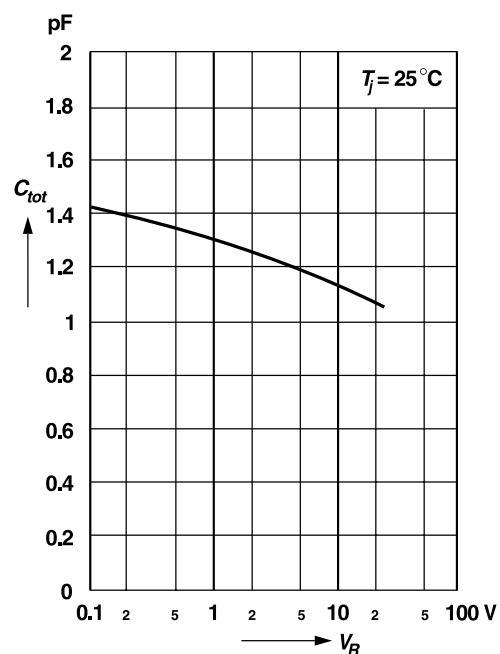
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**Dynamic forward resistance
versus forward current**



**Capacitance
versus reverse voltage**





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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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