Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
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BAV19W THRU BAV21W

410mW Small Signal Diodes 120 to 250 Volts

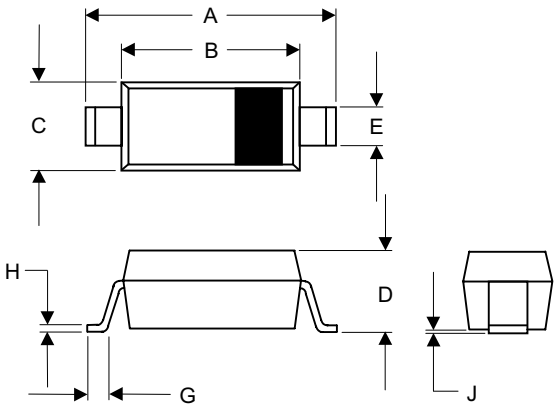
Features

- 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

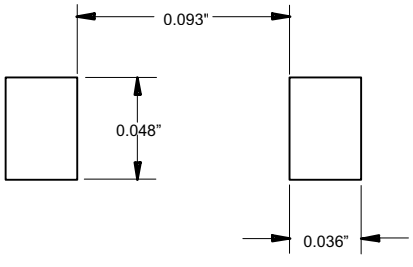
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking code: BAV19W=A8
  BAV20W=T2 or A80
  BAV21W=T3 or A82

SOD123



DIMENSIONS					
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



Maximum Ratings

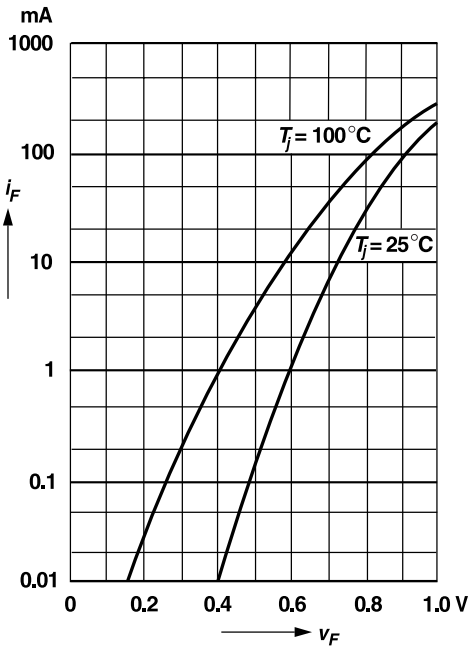
Symbol	Rating		Rating	Unit
V_R	Continuous Reverse Voltage	BAV19W BAV20W BAV21W	100 150 200	V
V_{RRM}	Repetitive Peak Reverse Voltage	BAV19W BAV20W BAV21W	120 200 250	V
I_F	Forward DC Current at Tamb=25°C(1)		250	mA
$I_{F(AV)}$	Rectified Current (Average) Half Wave Rectification with Resist. Load at Tamb=25°C(1)		200	mA
I_{FRM}	Repetitive Peak Forward Current at f>50Hz, Tamb=25°C(1)		625	mA
I_{FSM}	Surge Forward Current at t<1s, Tj=25°C		1.0	A
P_{tot}	Power Dissipation at Tamb=25°C(1)		410	mW
R_{JA}	Thermal Resistance Junction to Ambient Air		305	°C/W
T_J	Junction Temperature		-55 to +150	°C
T_{STG}	Storage Temperature		-55 to +150	°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) (VR=100V, Tj=100°C) (V_R=150V) (VR=150V, Tj=100°C) (V_R=200V) (VR=200V, Tj=100°C)	 BAV19W BAV19W BAV20W BAV20W BAV21W BAV21W	 --- --- --- --- --- ---	 --- --- --- --- --- ---	 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) (Irr=3.0mA, R_L=100OHMS)		---	---	50	ns

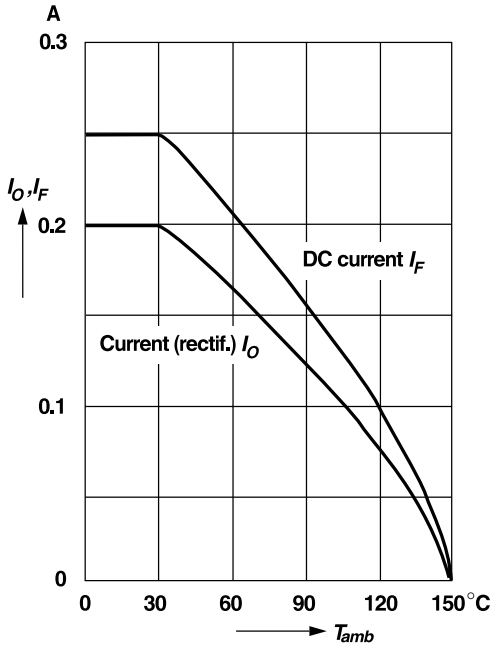
Notes: 1. Valid provided that leads are kept at ambient temperature

Forward characteristics



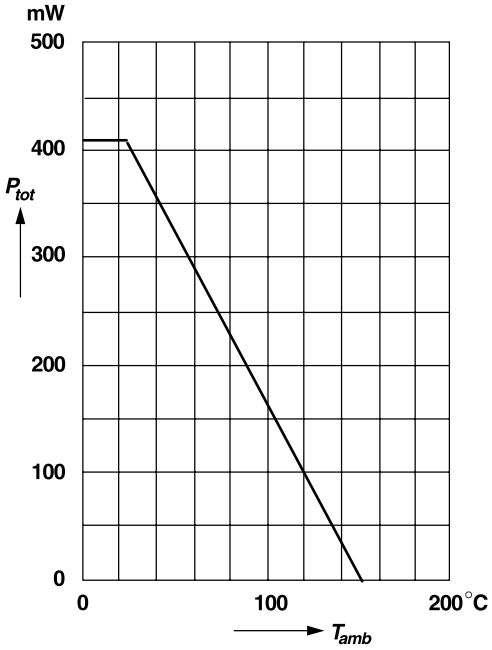
Admissible forward current versus ambient temperature

Valid provided that electrodes are kept at ambient temperature

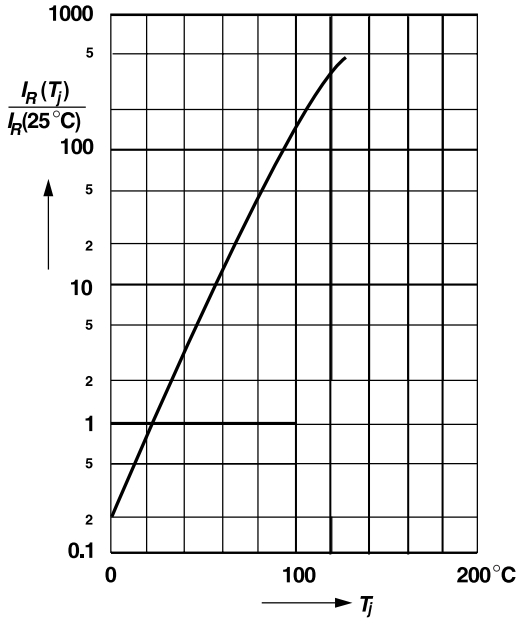


Admissible power dissipation versus ambient temperature

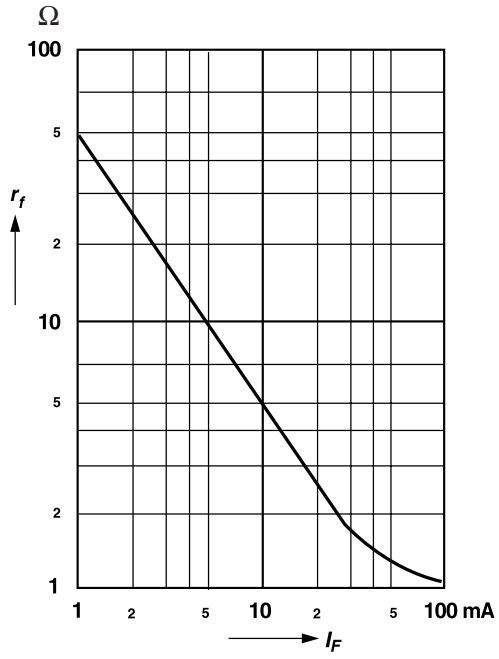
Valid provided that electrodes are kept at ambient temperature



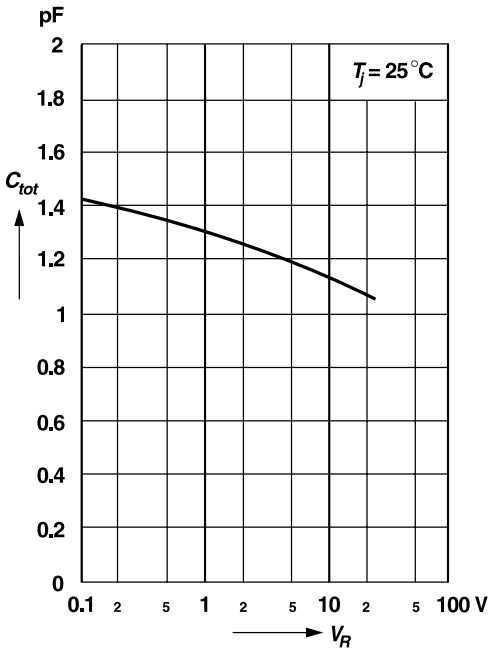
Leakage current versus junction temperature



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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