

BAV3004W

**400mW
Low Leakage
Diodes
300 Volts**

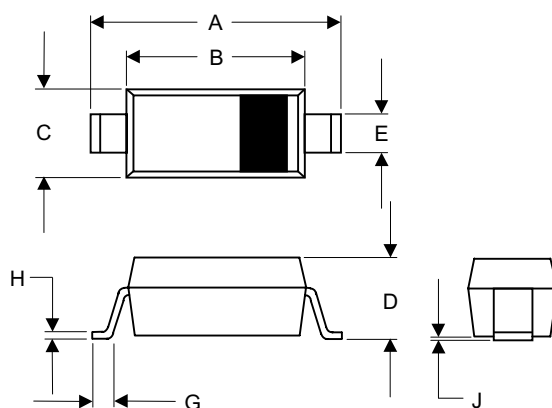
Features

- Low Leakage Current.
- High Reverse Breakdown Voltage.
- Fast Switching Speed.
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Mechanical Data

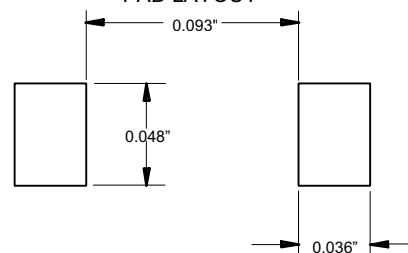
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking code: 4P

SOD123



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	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	DC Reverse Voltage	300	V
V_{RRM}	Peak Repetitive Reverse Voltage	350	V
I_{FM}	Forward Continuous Current	225	mA
I_{FRM}	Repetitive Peak Forward Current	625	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current	4.0 1.0	A
		@t=1.0us @t=1.0s	
P_d	Power Dissipation	400	mW
R_{JA}	Thermal Resistance Junction to Ambient Air	305	$^{\circ}C/W$
T_J	Junction Temperature	-65 to +150	$^{\circ}C$
T_{STG}	Storage Temperature	-65 to +150	$^{\circ}C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$V_{(BR)R}$	Reverse Breakdown Voltage ($I_R=150\mu A$)	350	---	---	V
V_F	Forward Voltage ($I_F=50mA$) ($I_F=100mA$) ($I_F=200mA$)	---	0.78 0.93 1.03	0.87 1.00 1.25	V
I_R	Reverse Current ($V_R=240V, T_J=25^{\circ}C$) ($V_R=240V, T_J=150^{\circ}C$)	---	30 35	100 100	nA μA
C_T	Total Capacitance ($V_R=0, f=1.0MHz$)	---	1.0	5.0	pF
t_{rr}	Reverse Recovery Time ($I_F=30mA, I_R=30mA$) ($I_{rr}=0.1I_{FR}, R_L=100\Omega$)	---	---	50	ns

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TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

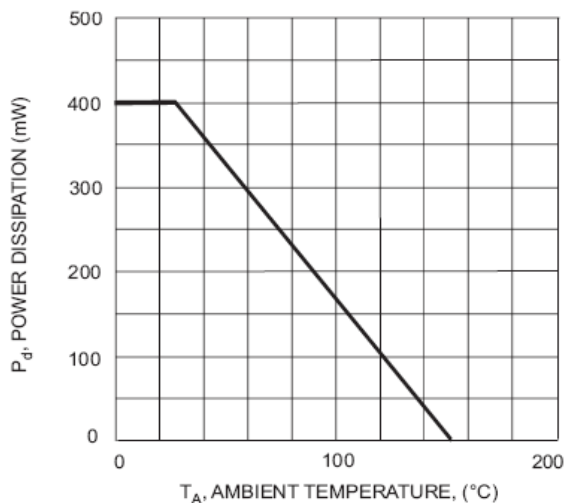


Fig. 1 Power Derating Curve

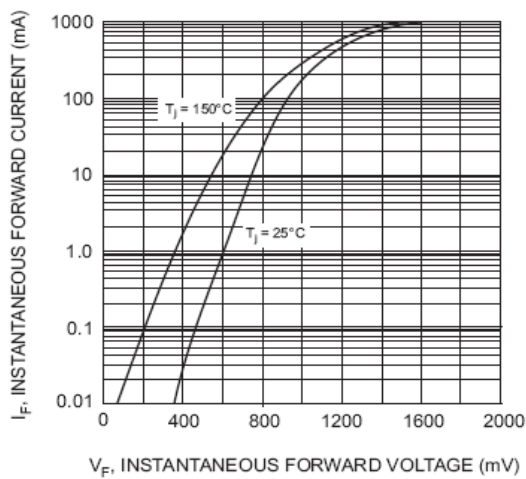


Fig. 2 Typical Forward Characteristics

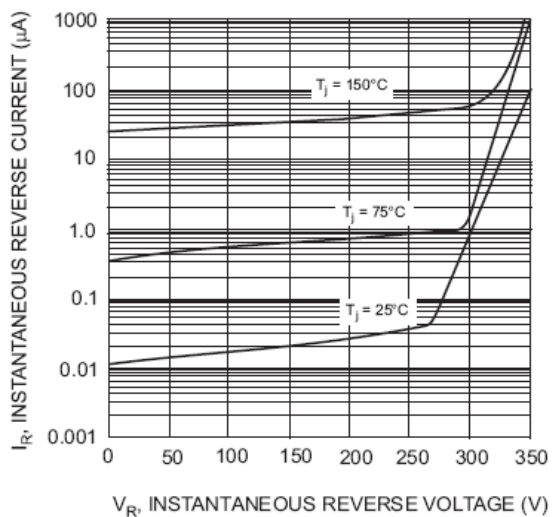


Fig. 3 Typical Reverse Characteristics

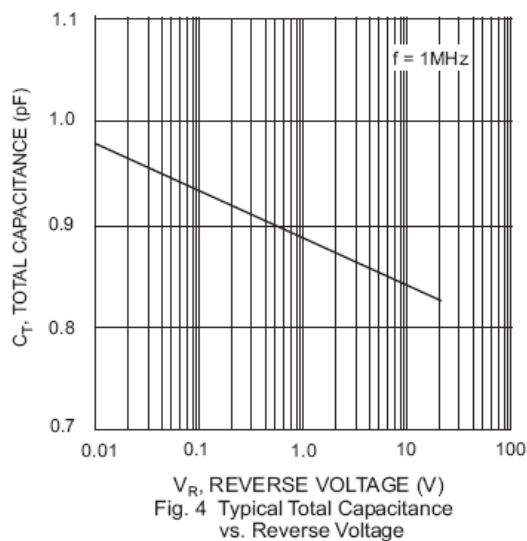


Fig. 4 Typical Total Capacitance vs. Reverse Voltage



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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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