

Features

- Low Leakage Current
- · Fast Switching Speed
- High Reverse Breakdown Voltage
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

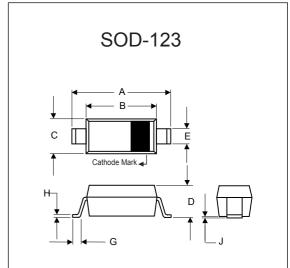
Maximum Ratings

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 312.5°C/W Junction to Ambient

MCC Part Number	Device Marking		
BAV3004W	4P		

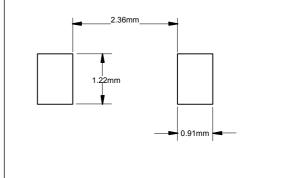
Parameter	Symbol	Value	
DC Reverse Voltage	V_R	300V	
Peak Repetitive Reverse Voltage	V_{RRM}	350V	
RMS Reverse Voltage	V _{R(RMS)}	210V	
Forward Continuous Current	I _{FM}	225mA	
Repetitive Peak Forward Current	I _{FRM}	625mA	
Peak Forward Surge Current (t=1s)	1	1A	
(t=1µs)	I _{FSM}	4A	
Power Dissipation	P_D	400mW	

400mW Low Leakage Diodes



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL
Α	0.140	0.152	3.55	3.85	
В	0.100	0.112	2.55	2.85	
С	0.055	0.071	1.40	1.80	
D		0.053		1.35	
E	0.018	0.026	0.45	0.65	
G	0.006		0.15		
Н		0.010		0.25	
J		0.006		0.15	

Suggested Solder Pad Layout





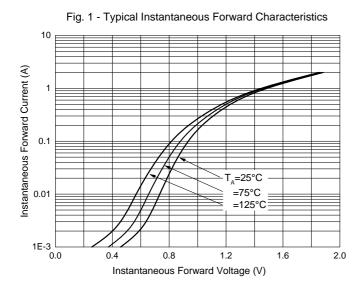
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

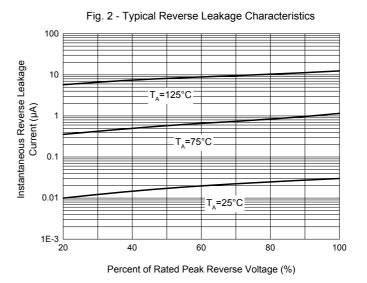
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _{BR}	I _R =150μA	350			V
		I _F =50mA		0.78	0.87	V
Forward Voltage	V _F	I _F =100mA		0.93	1	V
		I _F =200mA		1.03	1.25	V
Reverse Current I _R	V _R =240V		30	100	nA	
	V _R =240V, T _J =150°C		35	100	μΑ	
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$		1	5	pF
Reverse Recovery Time	t _{rr}	$I_F=I_R=30\text{mA},$ $I_{rr}=0.1\times I_R, R_L=100\Omega$			50	ns

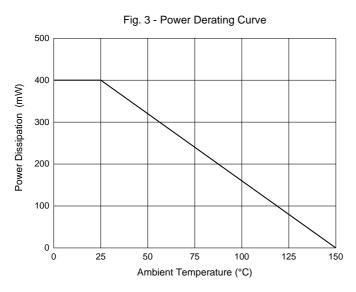
^{*} Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%



Curve Characteristics









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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