

BAV21WS

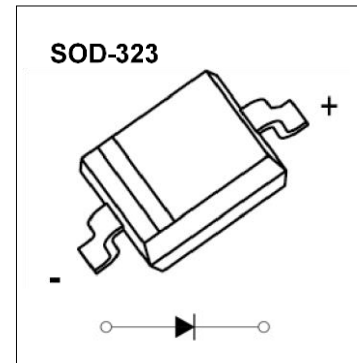
BAV21WS Fast Switching Diode

General description

Small Outline Flat Lead Plastic Package
High Voltage & High Conductance Fast Switching Diode

FEATURES

- Fast Switching Diode
- Flat Lead SOD-323 Small Outline Plastic Package
- Surface Device Type Mounting
- Moisture Sensitivity Level 1
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode



Absolute Maximum Ratings

TA = 25°C unless otherwise noted

These ratings are limiting values above which the serviceability of the diode may be impaired.

Symbol	Parameter	Value	Units
P_D	Power Dissipation	200	mW
V_{RRM}	Maximum Repetitive Reverse Voltage	250	V
T_{STG}	Storage Temperature Range	-65 to +150	°C
T_J	Operating Junction Temperature	+150	°C
$I_F (AV)$	Average Rectified Forward Current	200	mA
I_{FSM}	Non-repetitive Peak Forward Current		
	Pulse Width = 1.0 Second	1.0	A
	Pulse Width = 1.0 μ second	4.0	A

DEVICE MARKING CODE:

Device Type	Device Marking
BAV21WS	S7 or T3

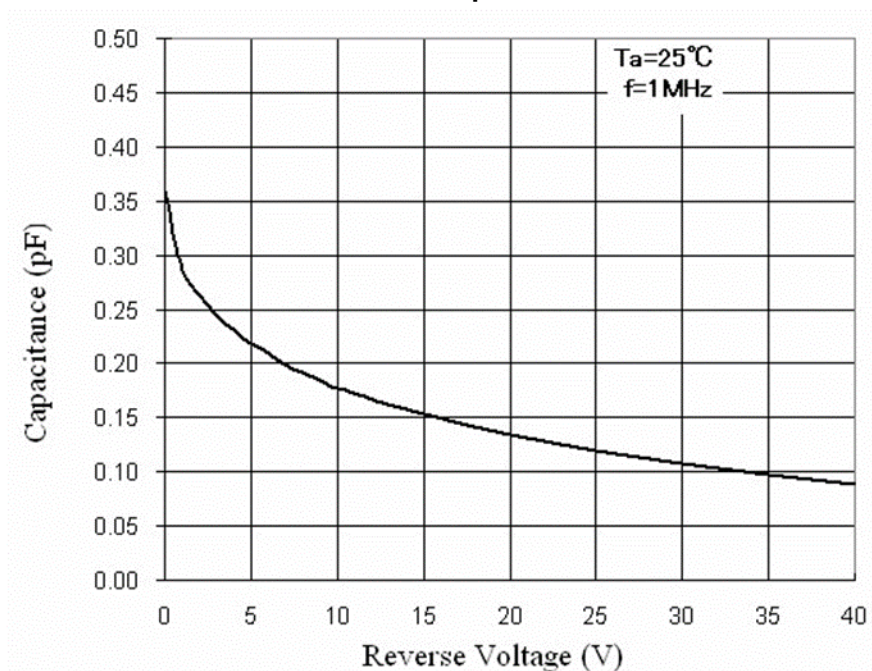
Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	$I_R=100\mu A$	250	---	Volts
I_R	Reverse Leakage Current	$V_R=200V$	---	100	nA
V_F	Forward Voltage	$I_F=100mA$	---	1.0	Volts
		$I_F=200mA$	---	1.25	Volts
T_{RR}	Reverse Recovery Time	$I_F=I_R=30mA$ $R_L=100\Omega$ $I_{RR}=3mA$	---	50	nS
C	Capacitance	$V_R=0V$, $f=1MHz$	---	5.0	pF

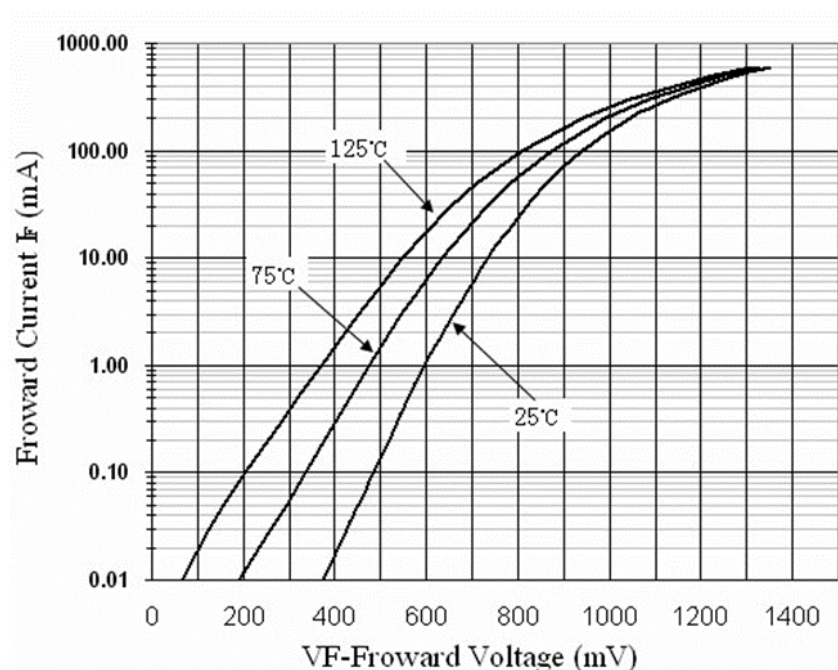
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Typical Performance Characteristics

Total Capacitance



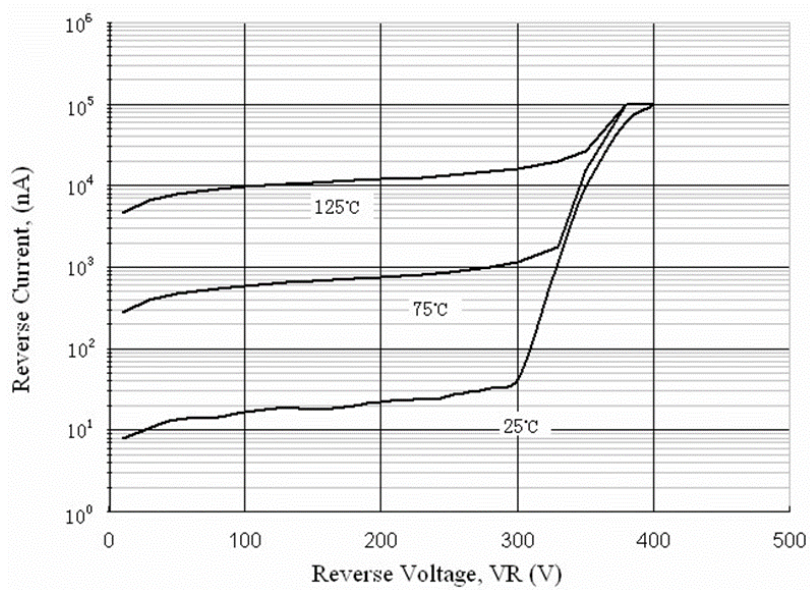
Forward Voltage vs Ambient Temperature



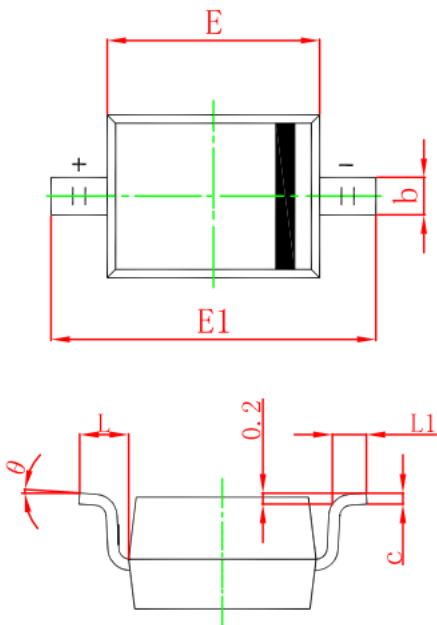


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Reverse Current vs Reverse Voltage



SOD-323 Package Outline



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A		1.100		0.043
A1	0.000	0.100	0.000	0.004
A2	0.800	1.000	0.031	0.039
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.500	2.750	0.098	0.108
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

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