

# BAV21WS

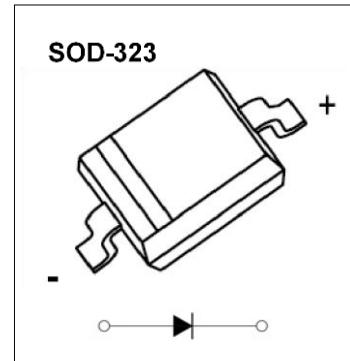
## BAV21WS Fast Switching Diode

### 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 <sub>D</sub>	Power Dissipation	200	mW
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	250	V
T <sub>STG</sub>	Storage Temperature Range	-65 to +150	°C
T <sub>J</sub>	Operating Junction Temperature	+150	°C
I <sub>F(AV)</sub>	Average Rectified Forward Current	200	mA
I <sub>FSM</sub>	Non-repetitive Peak Forward Current Pulse Width = 1.0 Second	1.0	A
	Pulse Width = 1.0 $\mu$ second	4.0	A

### DEVICE MARKING CODE:

Device Type	Device Marking
BAV21WS	S7 or T3

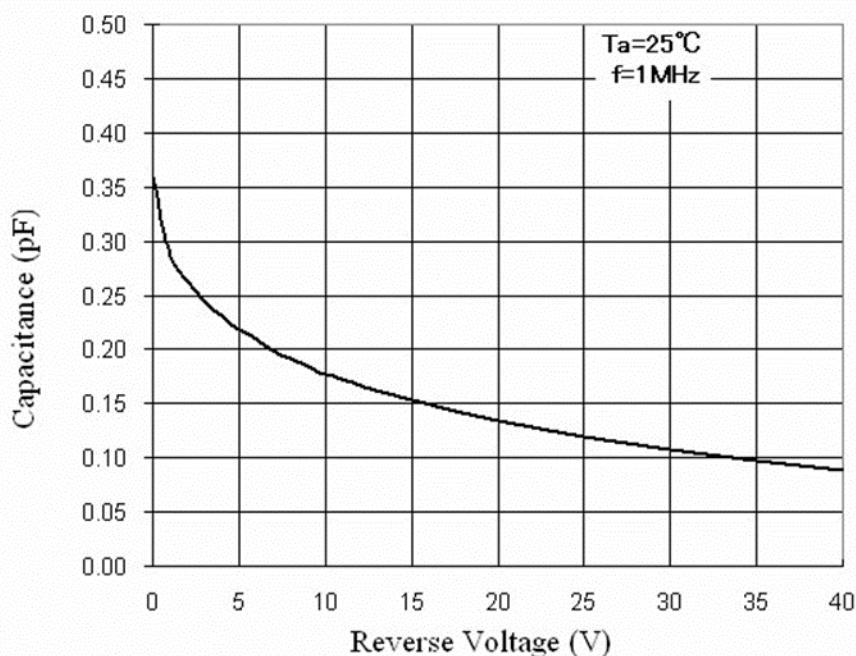
### Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B <sub>V</sub>	Breakdown Voltage	I <sub>R</sub> =100 $\mu$ A	250	---	Volts
I <sub>R</sub>	Reverse Leakage Current	V <sub>R</sub> =200V	---	100	nA
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> =100mA	---	1.0	Volts
		I <sub>F</sub> =200mA	---	1.25	Volts
T <sub>RR</sub>	Reverse Recovery Time	I <sub>F</sub> =I <sub>R</sub> =30mA R <sub>L</sub> =100 $\Omega$ I <sub>RR</sub> =3mA	---	50	nS
C	Capacitance	V <sub>R</sub> =0V, f=1MHz	---	5.0	pF

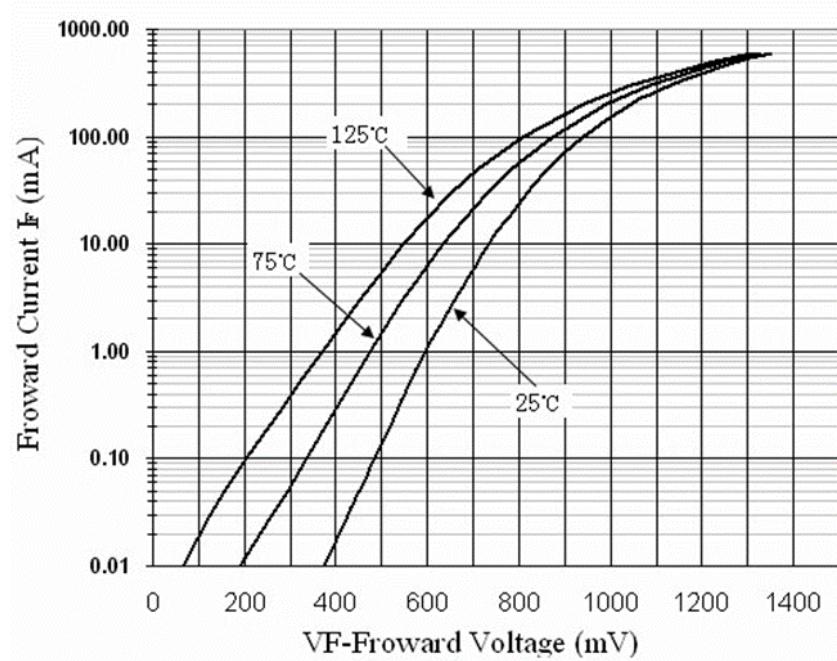
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## Typical Performance Characteristics

### Total Capacitance

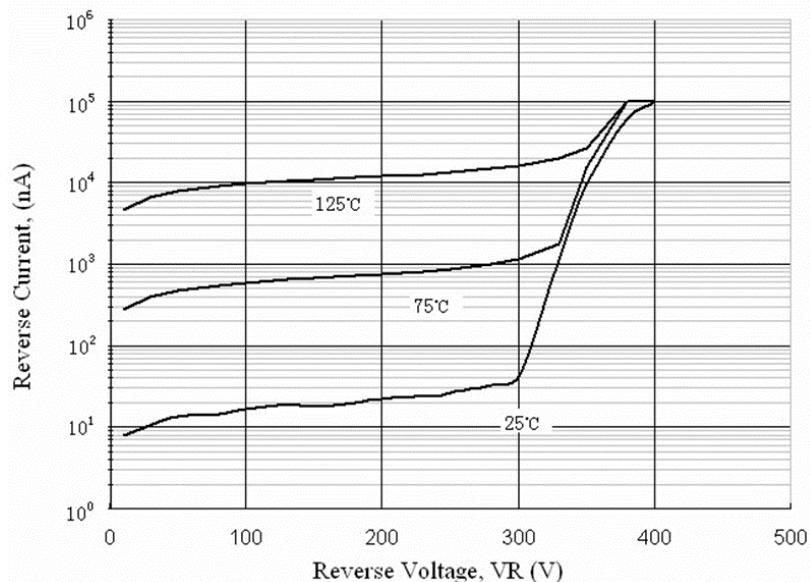


### Forward Voltage vs Ambient Temperature

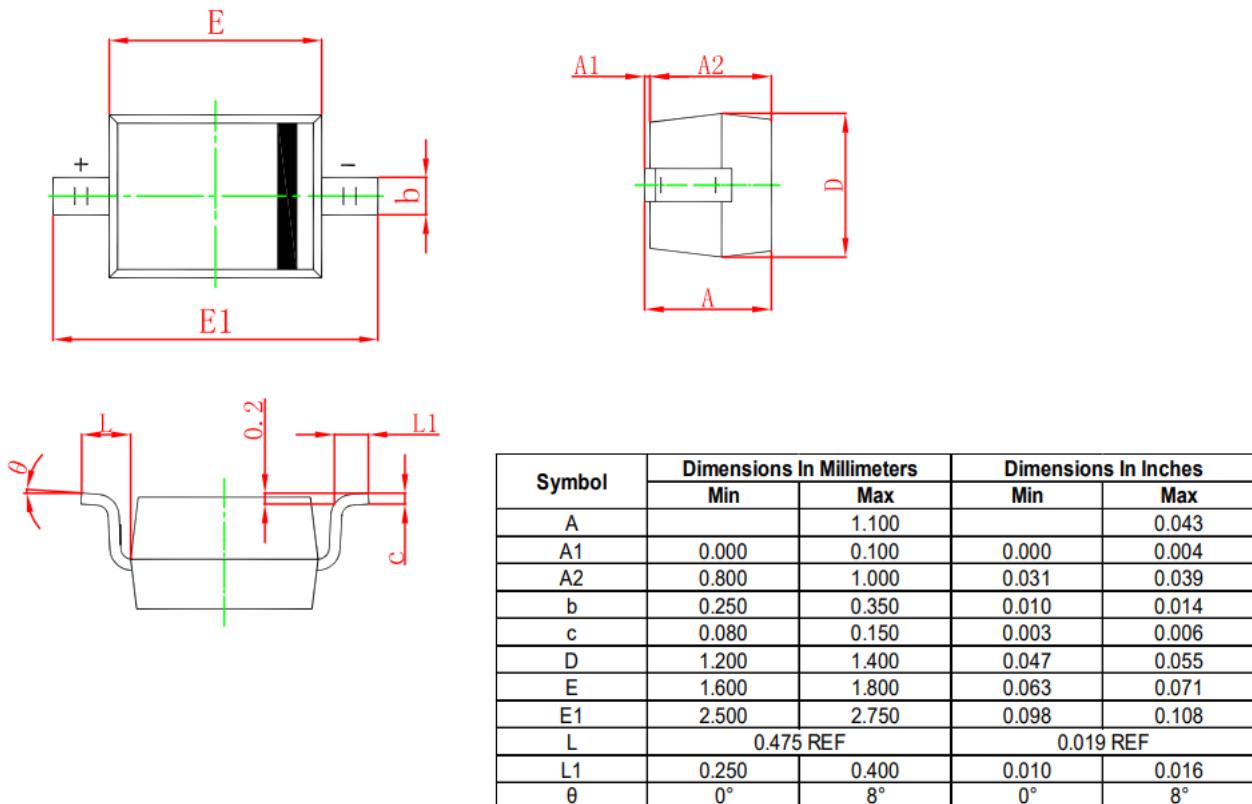


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## Reverse Current vs Reverse Voltage



## SOD-323 Package Outline



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