

# BAV21W

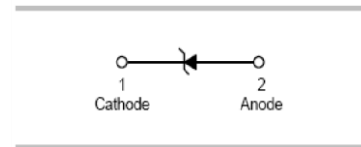
## BAV21W Fast Switching Diode

### General description

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

### FEATURES

- Fast Switching Diode
- General Purpose Diodes High Voltage Application Diodes
- Flat Lead SOD-123 Small Outline Plastic Package
- Surface Device Type Mounting
- 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	400	mW
$T_{STG}$	Storage Temperature Range	-65 to +150	°C
$T_J$	Operating Junction Temperature	+150	°C
$V_{RRM}$	Repetitive Peak Reverse Voltage	250	V
$I_{F(AV)}$	Average Rectified Forward Current	200	mA

### SOD-123

#### DEVICE MARKING CODE:

Device Type	Device Marking
BAV21W	H3 or T3

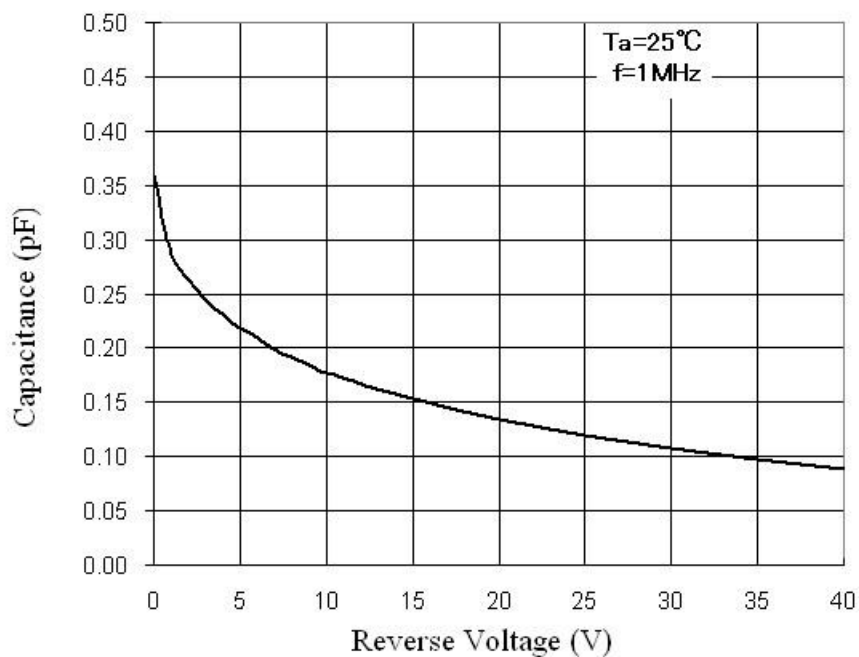
### Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

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	$I_F=I_R=30mA$			
		$R_L=100\Omega$	---	50	nS
		$I_{RR}=3mA$			
$C$	Capacitance	$V_R=0V, f=1MHz$	---	5.0	pF

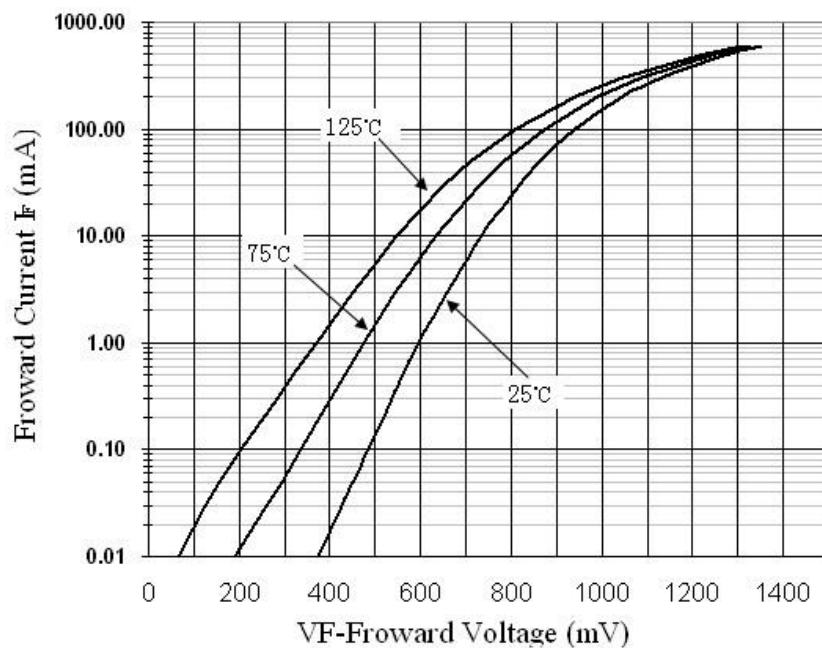
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## Typical Performance Characteristics

**Total Capacitance**



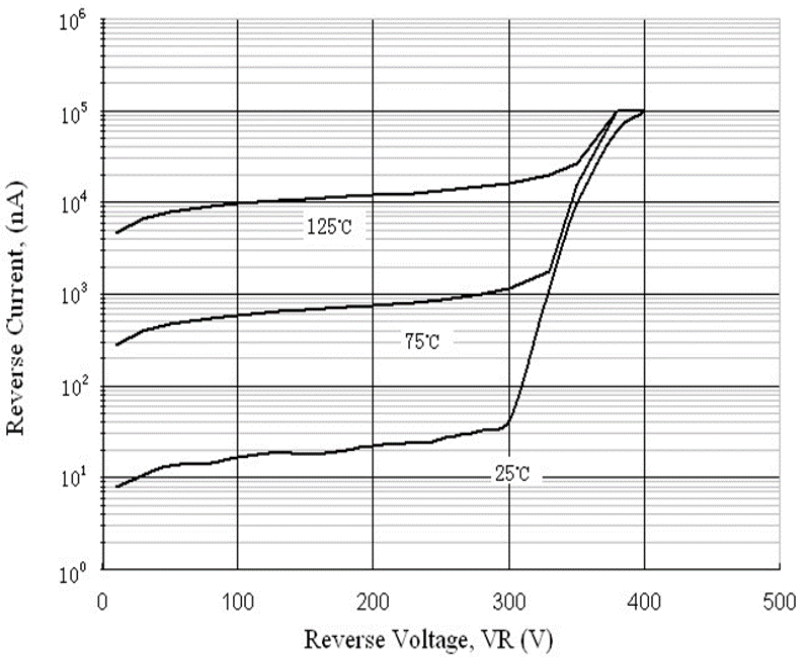
**Forward Voltage vs Ambient Temperature**



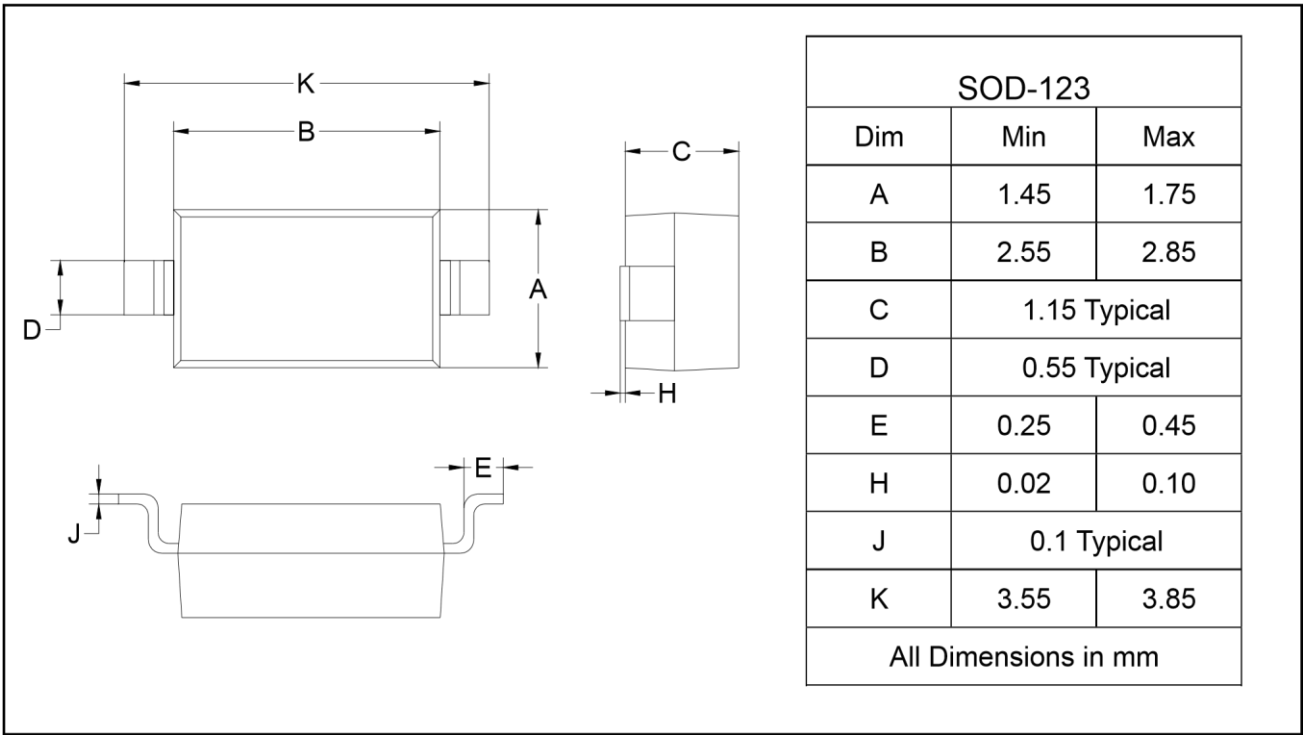


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## Reverse Current vs Reverse Voltage



## SOD-123 Package Outline



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