

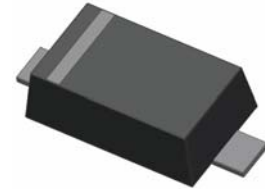
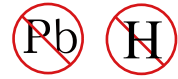


DATA SHEET

SEMICONDUCTOR

BAV19WSFL Thru BAV21WSFL

200mW SOD-323 SURFACE MOUNT Small Outline Flat Lead Plastic Package High Voltage Switching Diode

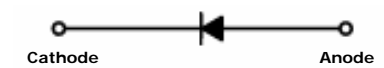


SOD-323 Flat Lead

Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

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	$^\circ\text{C}$
T_J	Operating Junction Temperature	+150	$^\circ\text{C}$
$I_{F(AV)}$	Average Rectified Forward Current	200	mA
I_{FSM}	Non-repetitive Peak Forward Current Pulse Width = 1.0 Second Pulse Width = 1.0 μsecond	1.0	A
		4.0	A

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



Cathode

Anode

ELECTRICAL SYMBOL

Specification Features:

- 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

DEVICE MARKING CODE:

Device Type	Device Marking
BAV19WSFL	S5
BAV20WSFL	S6
BAV21WSFL	S7

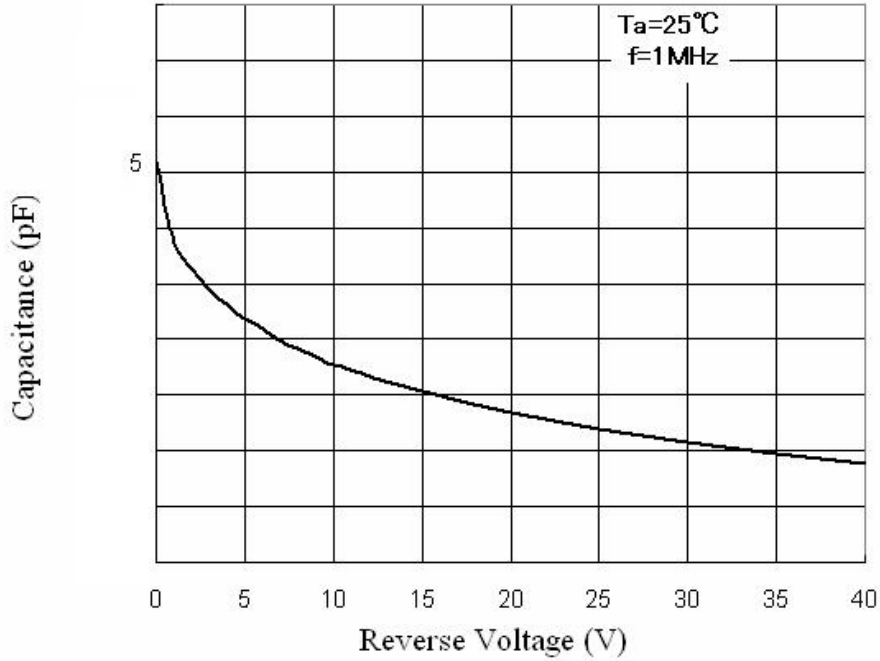
Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit	
			Min	Max		
B_V	Breakdown Voltage	BAV19WSFL	$I_R=100\mu\text{A}$	120	---	Volts
		BAV20WSFL		200	---	Volts
		BAV21WSFL		250	---	Volts
I_R	Reverse Leakage Current	BAV19WSFL	$V_R=100\text{V}$	---	100	nA
		BAV20WSFL	$V_R=150\text{V}$	---	100	nA
		BAV21WSFL	$V_R=200\text{V}$	---	100	nA
V_F	Forward Voltage		$I_F=100\text{mA}$	---	1.0	Volts
			$I_F=200\text{mA}$	---	1.25	Volts
T_{RR}	Reverse Recovery Time		$I_F=I_R=30\text{mA}$ $R_L=100\Omega$ $I_{RR}=3\text{mA}$	---	50	nS
C	Capacitance		$V_R=0\text{V}$, $f=1\text{MHz}$	---	5.0	pF

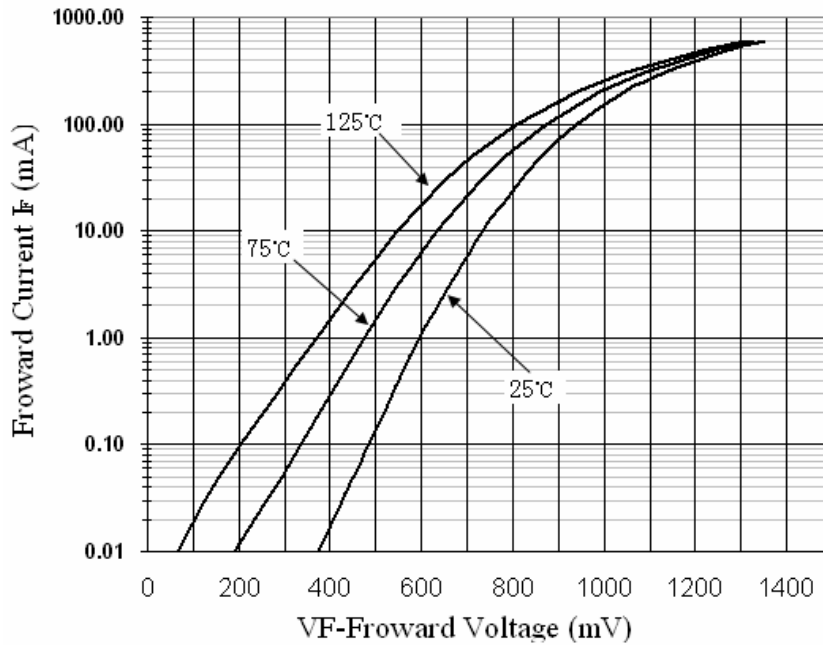
DEVICE CHARACTERISTICS

BAV19WSFL Thru BAV21WSFL

Total Capacitance

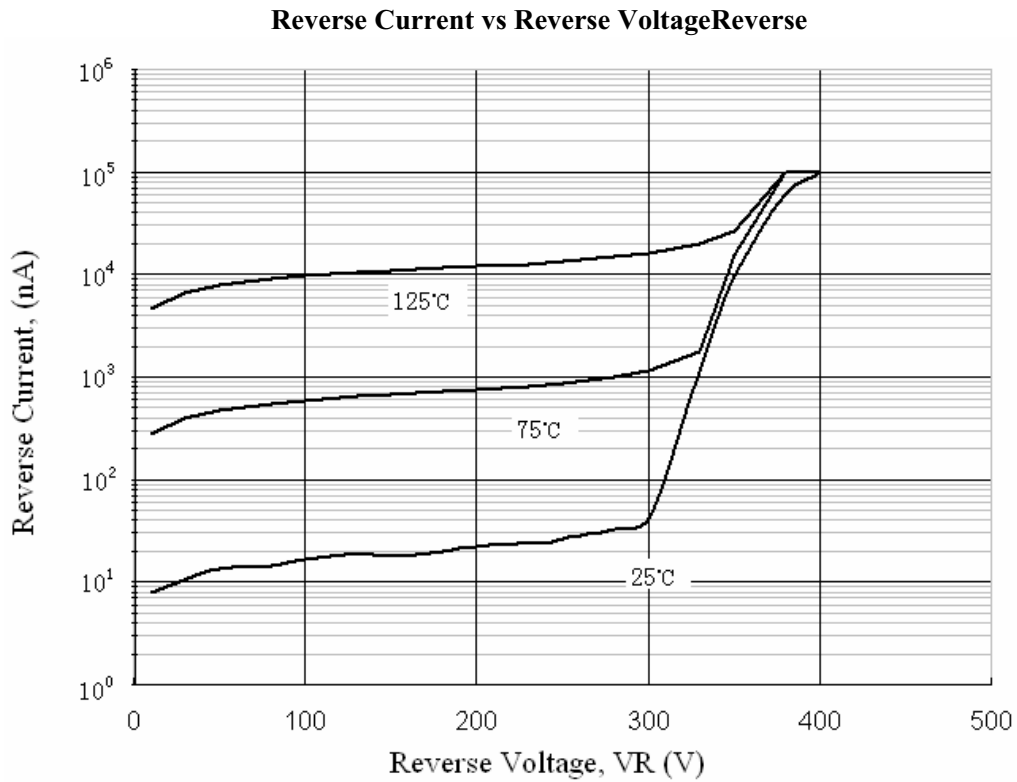


Forward Voltage vs Ambient Temperature



PACKAGE OUTLINE & DIMENSIONS

BAV19WSFL Thru BAV21WSFL



SOD-323 Package Outline

