

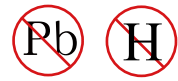


DATA SHEET

SEMICONDUCTOR

BAV19WSFL Thru BAV21WSFL

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



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 4.0	A A

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



SOD-323 Flat Lead



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

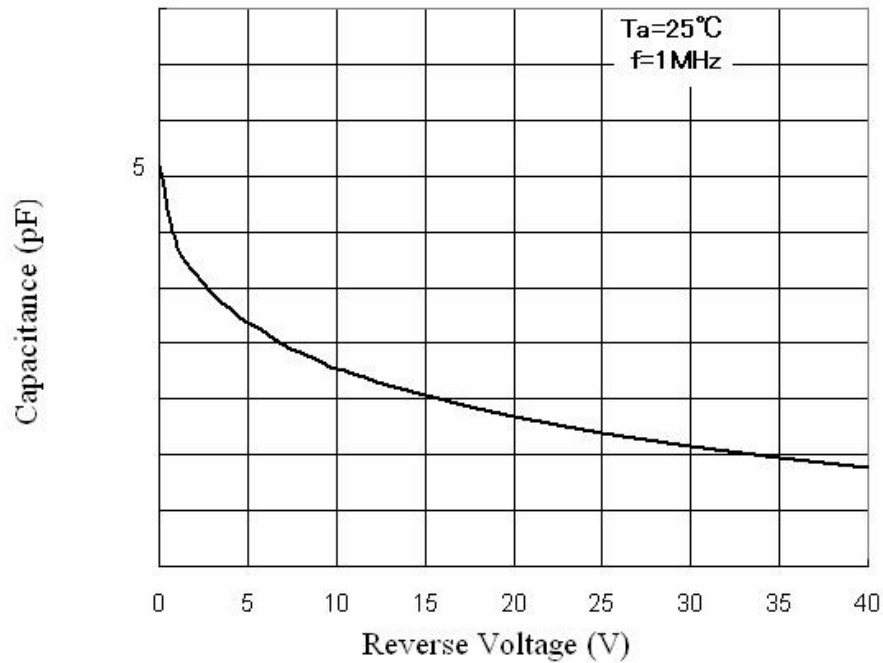
Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Electrical Characteristics						
Symbol	Parameter		Test Condition	Limits		Unit
				Min	Max	
B _V	Breakdown Voltage	BAV19WSFL	I _R =100μA	120	---	Volts
		BAV20WSFL		200	---	Volts
		BAV21WSFL		250	---	Volts
I _R	Reverse Leakage Current	BAV19WSFL	V _R =100V	---	100	nA
		BAV20WSFL	V _R =150V	---	100	nA
		BAV21WSFL	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 =100Ω I _{RR} =3mA	---	50	nS
C	Capacitance		V _R =0V, f=1M _{HZ}	---	5.0	pF

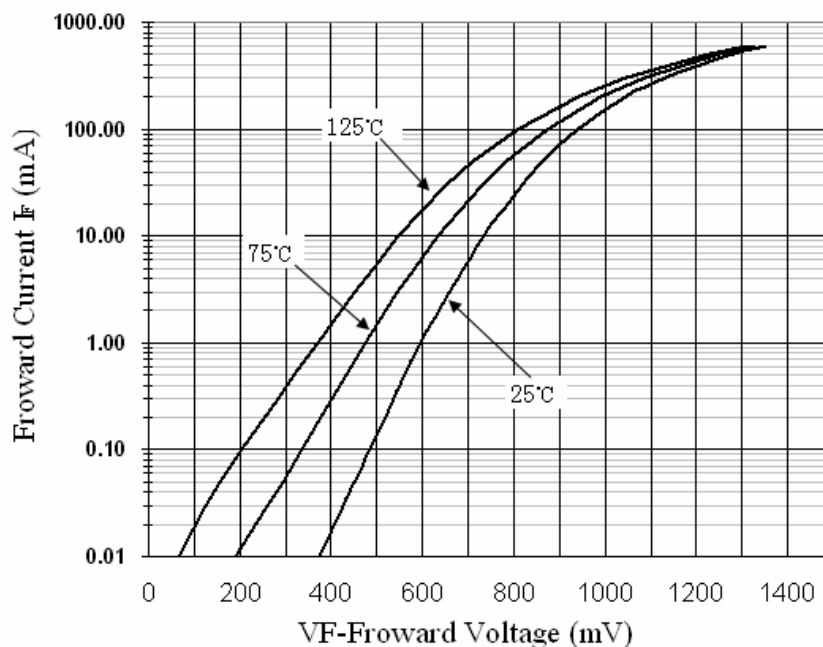
DEVICE CHARACTERISTICS

BAV19WSFL Thru BAV21WSFL

Total Capacitance

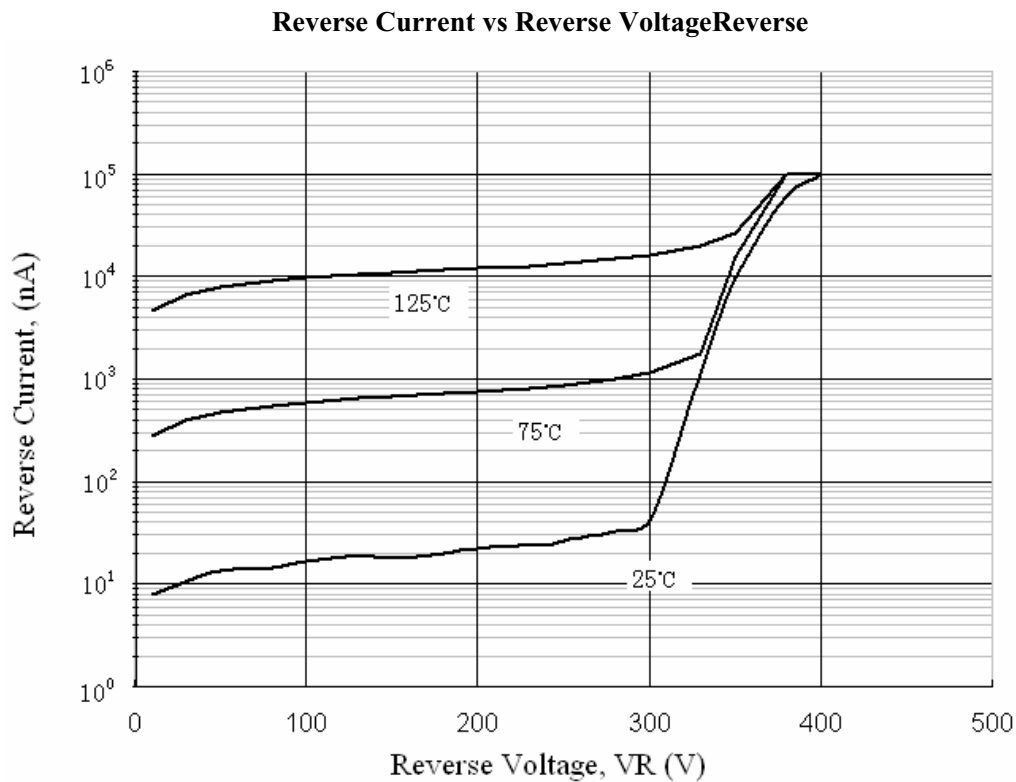


Forward Voltage vs Ambient Temperature



PACKAGE OUTLINE & DIMENSIONS

BAV19WSFL Thru BAV21WSFL



SOD-323 Package Outline

