

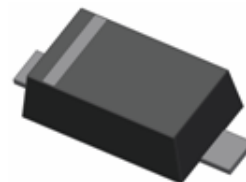
400mW SOD-123 SURFACE MOUNT

Small Outline Flat Lead Plastic Package

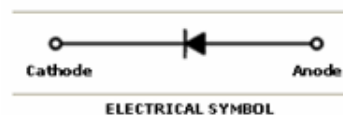
High Voltage & High Conductance

Fast Switching Diode

Green Product



SOD-123 Flat Lead



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

Symbol	Parameter	Value	Units
P_D	Power Dissipation	400	mW
T_{STG}	Storage Temperature Range	-65 to +150	$^\circ\text{C}$
T_J	Operating Junction Temperature	+150	$^\circ\text{C}$
V_{RRM}	Repetitive Peak Reverse Voltage	250	V
$I_{F(AV)}$	Average Rectified Forward Current	200	mA

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

Specification 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

DEVICE MARKING CODE:

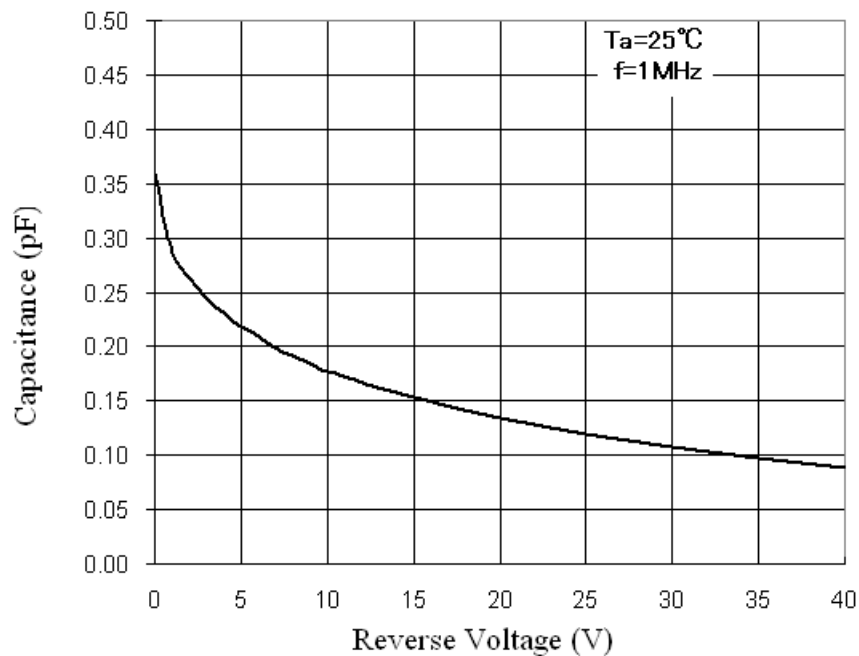
Device Type	Device Marking
BAV19W	H1
BAV20W	H2
BAV21W	H3

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

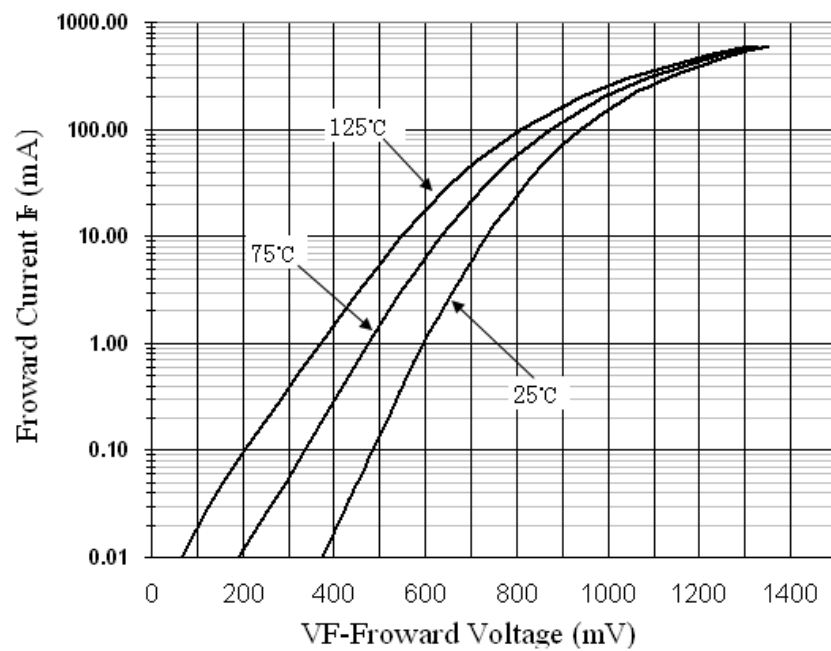
Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	$I_R=100\mu\text{A}$	120	---	Volts
			200	---	Volts
			250	---	Volts
I_R	Reverse Leakage Current	$V_R=100\text{V}$	---	100	nA
		$V_R=150\text{V}$	---	100	nA
		$V_R=200\text{V}$	---	100	nA
V_F	Forward Voltage	$I_F=100\text{mA}$	---	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

Typical Performance Characteristics

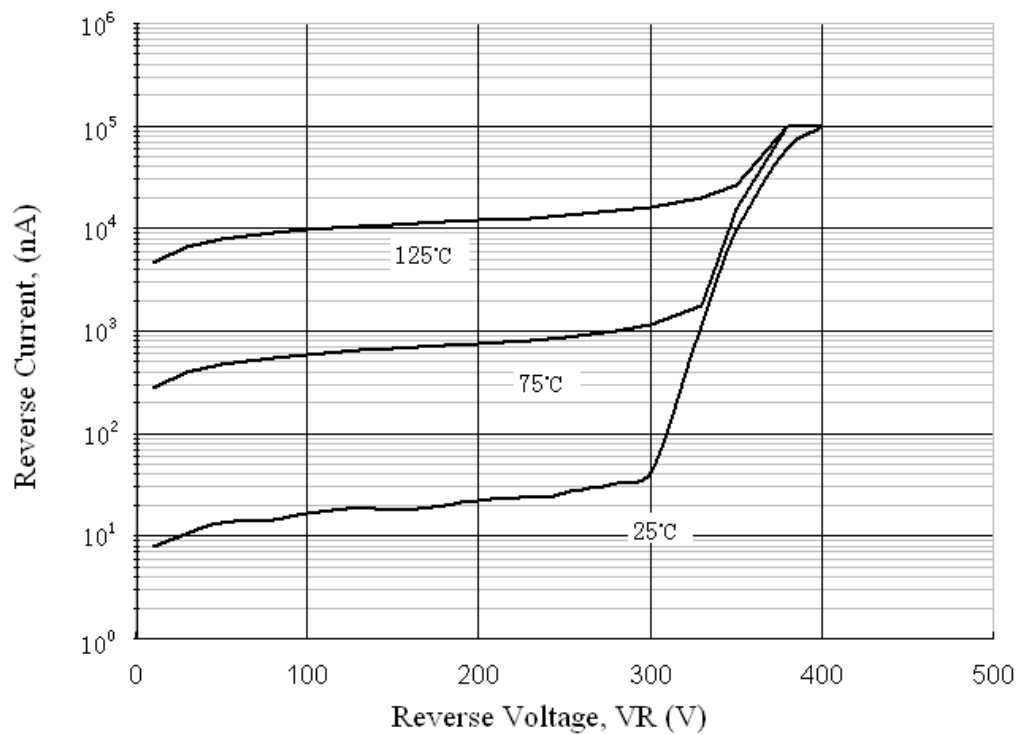
Total Capacitance



Forward Voltage vs Ambient Temperature



Reverse Current vs Reverse Voltage



Flat Lead SOD-123 Package Outline

