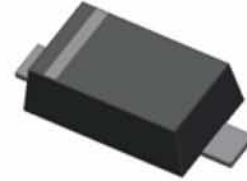




GAIA TECH

BAV19W/BAV20W/BAV21W

400mW SOD-123 SURFACE MOUNT Small Outline Flat Lead Plastic Package High Voltage & High Conductance Fast Switching Diode

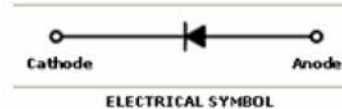
Green Product

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
$I_{F(AV)}$	Repetitive Peak 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:

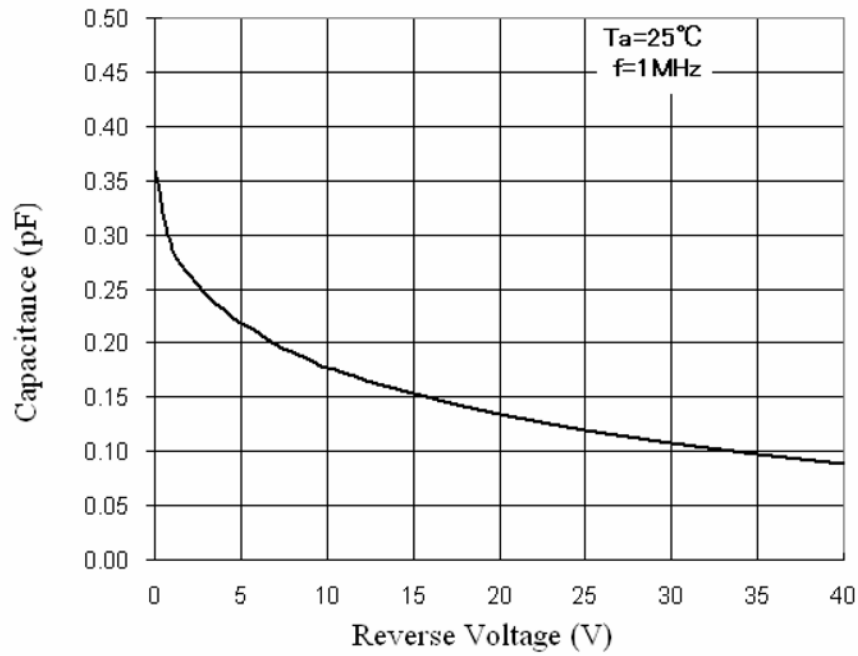
Device Type	Device Marking
BAV19W	H1
BAV20W	H2
BAV21W	H3

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

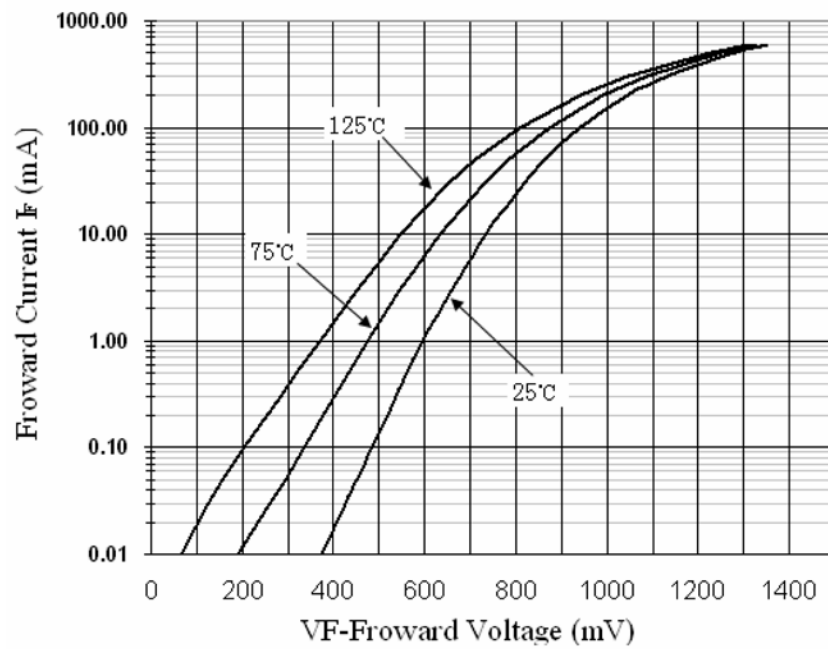
Symbol	Parameter		Test Condition	Limits		Unit
				Min	Max	
B _V	Breakdown Voltage	BAV19W	I _R =100μA	120	---	Volts
		BAV20W		200	---	Volts
		BAV21W		250	---	Volts
I _R	Reverse Leakage Current	BAV19W	V _R =100V	---	100	nA
		BAV20W	V _R =150V	---	100	nA
		BAV21W	V _R =200V	---	100	nA
V _F	Forward Voltage		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	---	50	nS
			I _{RR} =3mA			
C	Capacitance		V _R =0V, f=1MHz	---	5.0	pF



Total Capacitance



Forward Voltage vs Ambient Temperature





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Reverse Current vs Reverse Voltage

