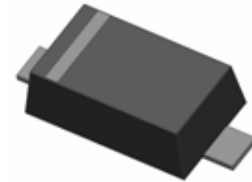
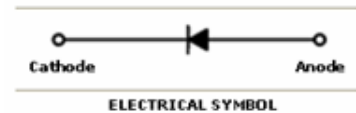


400mW SOD-123 SURFACE MOUNT
Small Outline Flat Lead Plastic Package
High Voltage & High Conductance
Fast Switching Diode

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:

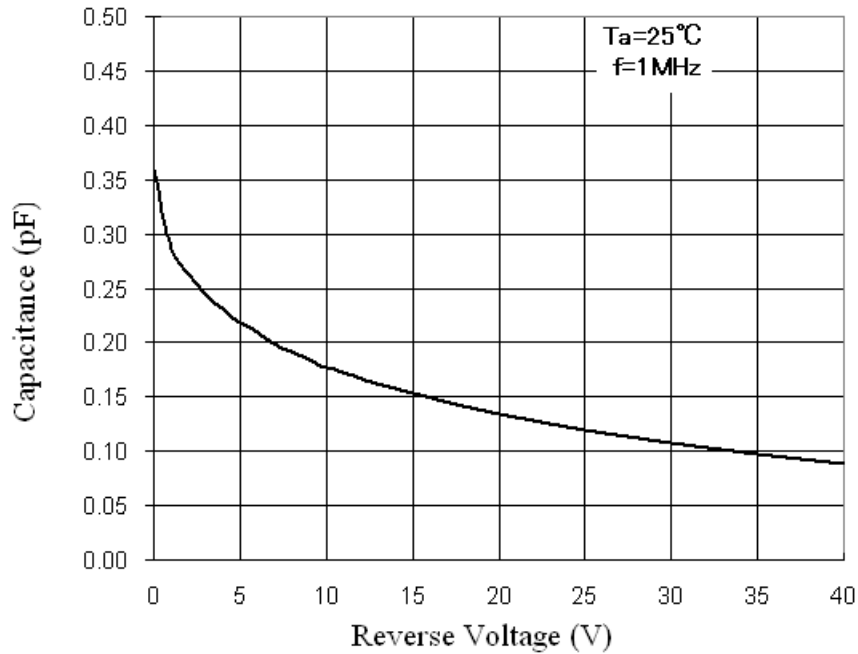
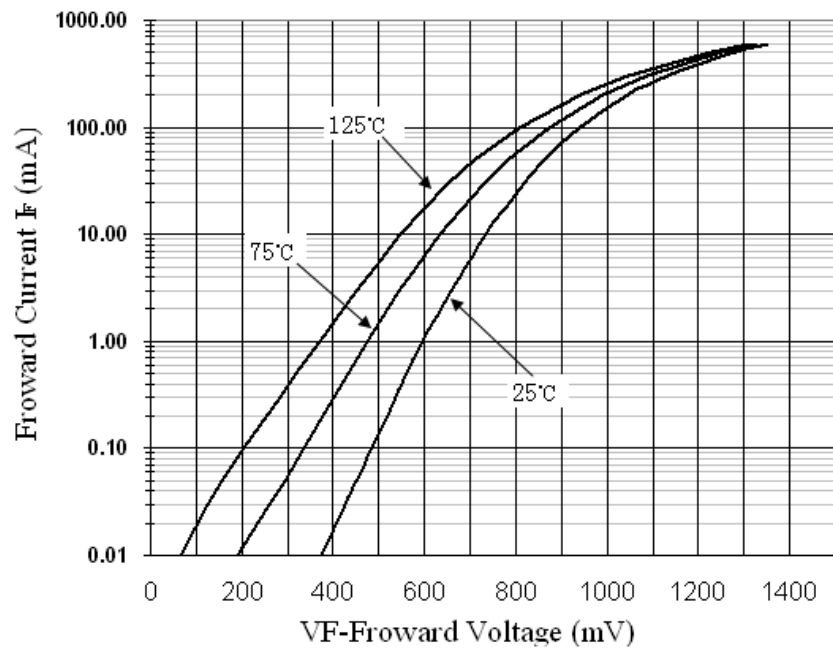
- Fast Switching Diode
- General Purpose Diodes High Voltage Application Diodes
- Flat Lead SOD-123 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

DEVICE MARKING CODE:

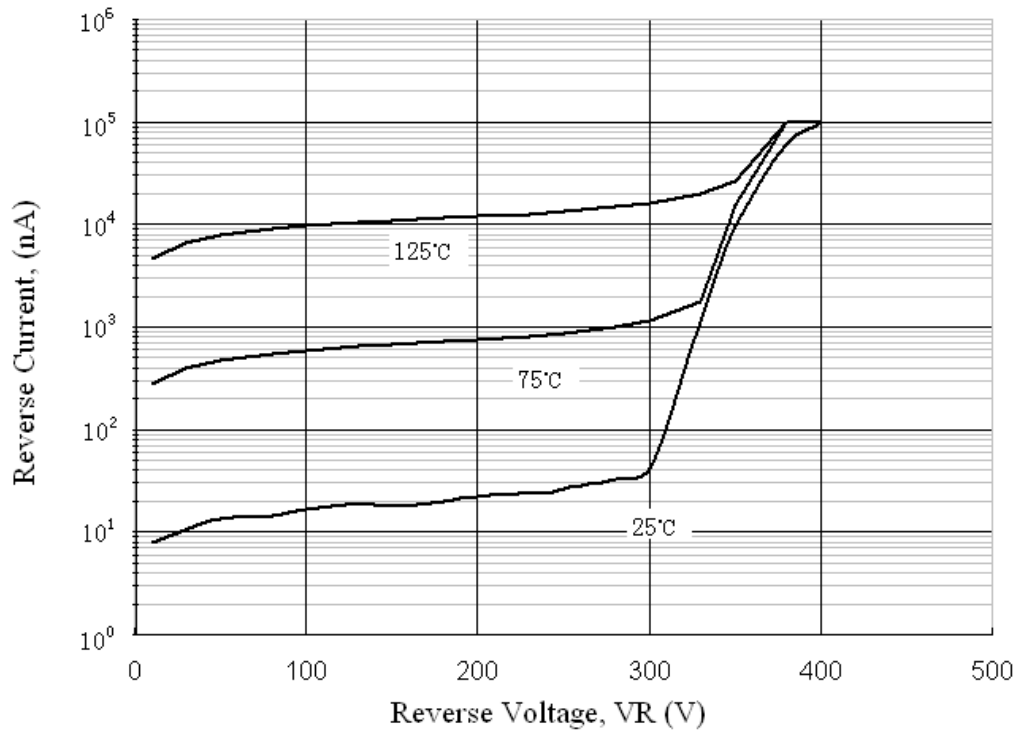
Device Type	Device Marking
BAV19W	H1
BAV20W	H2
BAV21W	H3

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

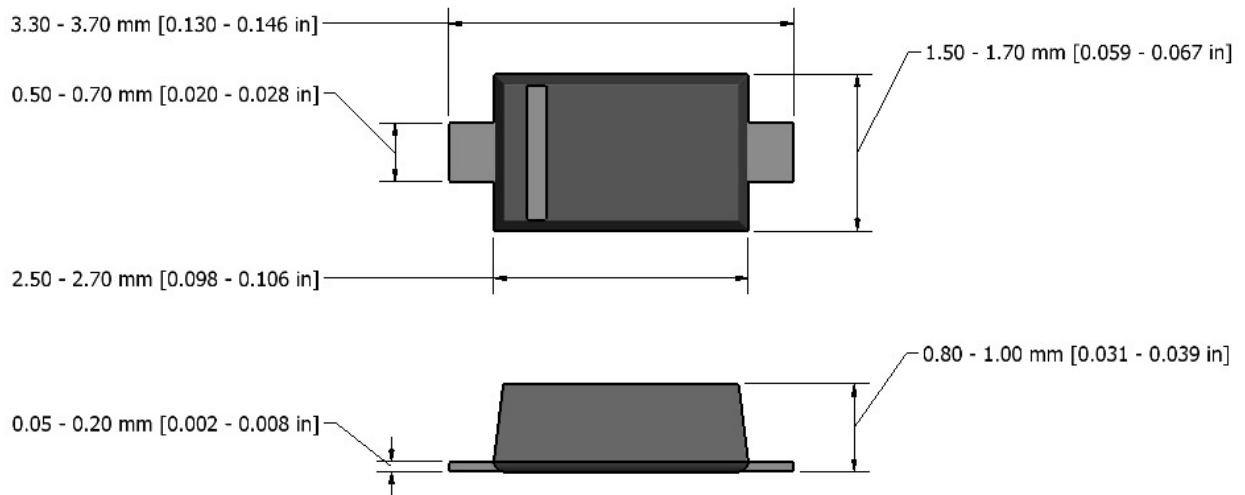
Symbol	Parameter	Test Condition	Limits		Unit	
			Min	Max		
B_V	Breakdown Voltage	BAV19W	$I_R=100\mu\text{A}$	120	---	Volts
		BAV20W		200	---	Volts
		BAV21W		250	---	Volts
I_R	Reverse Leakage Current	BAV19W	$V_R=100\text{V}$	---	100	nA
		BAV20W	$V_R=150\text{V}$	---	100	nA
		BAV21W	$V_R=200\text{V}$	---	100	nA
V_F	Forward Voltage	$I_F=100\text{mA}$ $I_F=200\text{mA}$	---	1.0	Volts	
			---	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



NOTICE

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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[SDAA13](#) [SHN2D02FUTW1T1G](#) [LS4151GS08](#) [1N4449](#) [1N456A](#) [1N4934-E3/73](#) [1N914B](#) [1N914BTR](#) [1SS226-TP](#) [RFUH20TB3S](#)
[D291S45T](#) [BAV300-TR](#) [BAW56DWQ-7-F](#) [BAW75-TAP](#) [MM230L-CAA](#) [IDW40E65D1](#) [JAN1N3600](#) [LL4151-GS18](#) [053684A](#)
[SMMSD4148T3G](#) [707803H](#) [NSVDAN222T1G](#) [CDSZC01100-HF](#) [LL4150-M-08](#) [BAV199E6433HTMA1](#) [BAS28-7](#) [BAW56HDW-13](#)
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