



BAV19W / BAV20W / BAV21W

HIGH VOLTAGE SWITCHING DIODES

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Suffix "H" indicates Halogen-free parts, ex. BAV19WH

MECHANICAL DATA

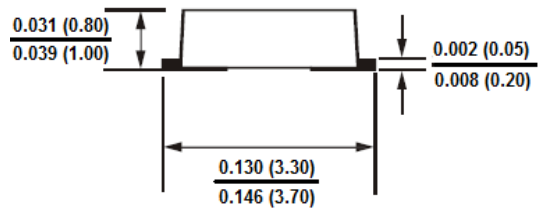
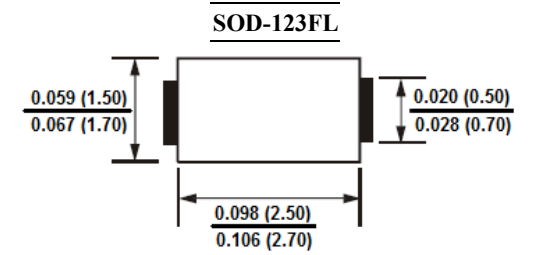
Case : SOD-123FL

Polarity : Band Indicates Cathode

Marking Code : BAV19W=H1

BAV20W=H2

BAV21W=H3



Dimensions in inches and (millimeters)

Absolute Maximum Ratings

Tamb = 25 °C, unless otherwise specified

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	400	mW
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	250	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Current Pulse Width = 1.0 Second	I_{FSM}	1.0	A
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-65 to +150	°C

Electrical Characteristics

Tamb = 25 °C, unless otherwise specified

Parameter	Symbol	Test Condition	Min.	Max.	Units	
Breakdown Voltage	B_V	$I_R=100\mu A$	BAV19W	120	-	V
			BAV20W	200	-	
			BAV21W	250	-	
Reverse Leakage Current	I_R	$V_R=100V$	BAV19W	-	100	nA
			BAV20W	-	100	
			BAV21W	-	100	
Forward Voltage	V_F	$I_F=100mA$	BAV19W	-	1.0	V
			BAV20W	-	1.25	
Capacitance	C	$V_R=0V, f=1MHz$	-	5.0	pF	
Reverse Recovery Time	T_{RR}	$I_F=I_R=30mA$ $R_L=100\Omega, I_{RR}=3mA$	-	50	nS	

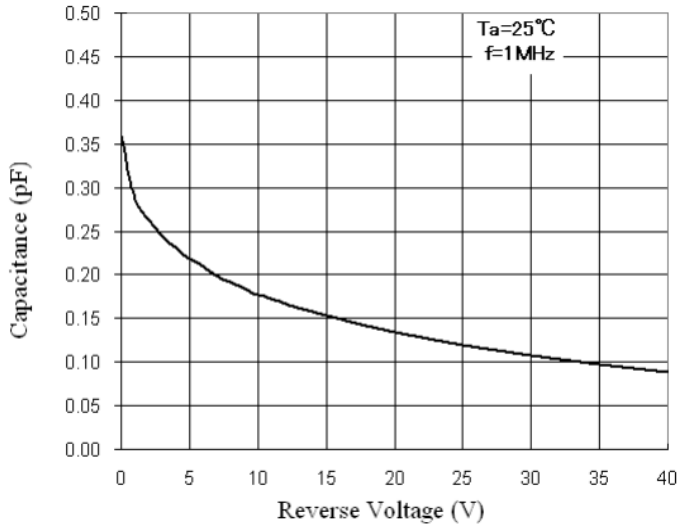


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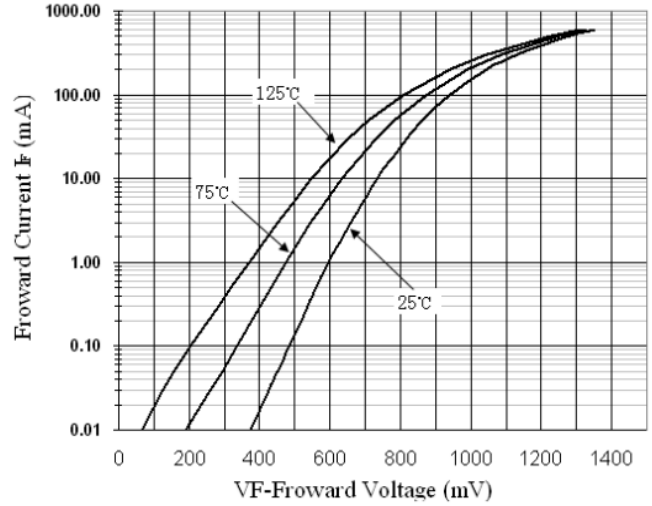
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RATINGS AND CHARACTERISTIC CURVES

Total Capacitance



Forward Voltage vs Ambient Temperature



Reverse Current vs Reverse Voltage

