

# BAV19W THRU BAV21W

## SWITCHING DIODES

**VOLTAGE** 100~200 Volt **CURRENT** 0.2 Ampere

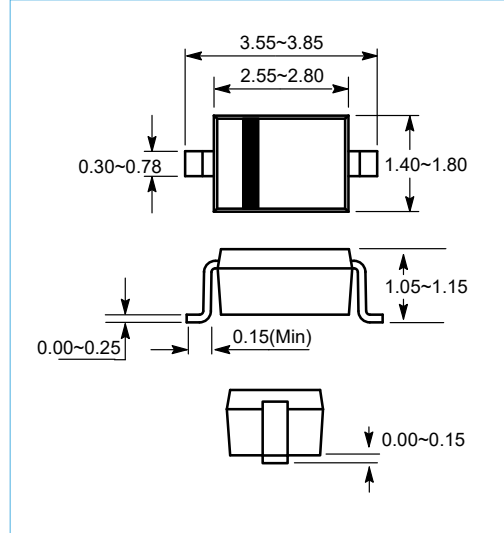
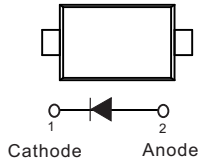
**SOD-123** Unit:mm

### FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- Lead free in compliance with EU RoHS
- Marking code: BAV19W-A8,BAV20W-T2,BAV21W-T3

### MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Symbol	meter	Value			Unit
		BAV19W	BAV20W	BAV21W	
$V_{RM}$	Non-Repetitive Peak Reverse Voltage	120	200	250	V
$V_{RRM}$	Peak Repetitive Reverse Voltage	100	150	200	V
$V_{RWM}$	Working Peak Reverse Voltage				
$V_{R(RMS)}$	RMS Reverse Voltage	71	106	141	V
$I_o$	Average Rectified Output Current	200			mA
$I_{FSM}$	Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	2.0			A
$P_D$	Power Dissipation	500			mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	250			$^\circ\text{C}/\text{W}$
$T_j$	Junction Temperature	150			$^\circ\text{C}$
$T_{stg}$	Storage Temperature	-55~+150			$^\circ\text{C}$

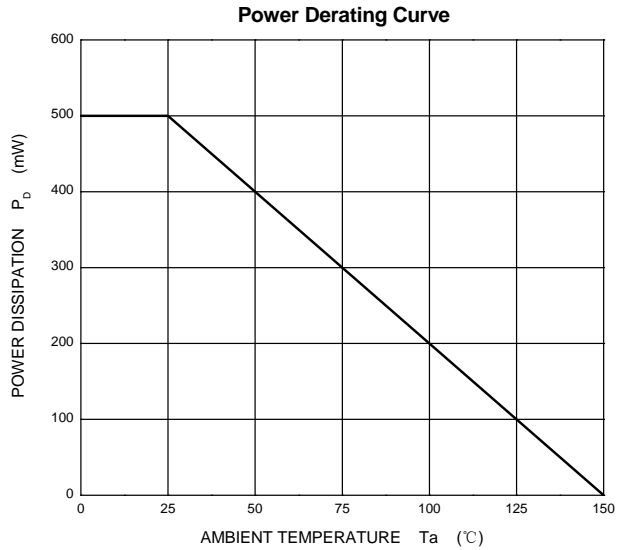
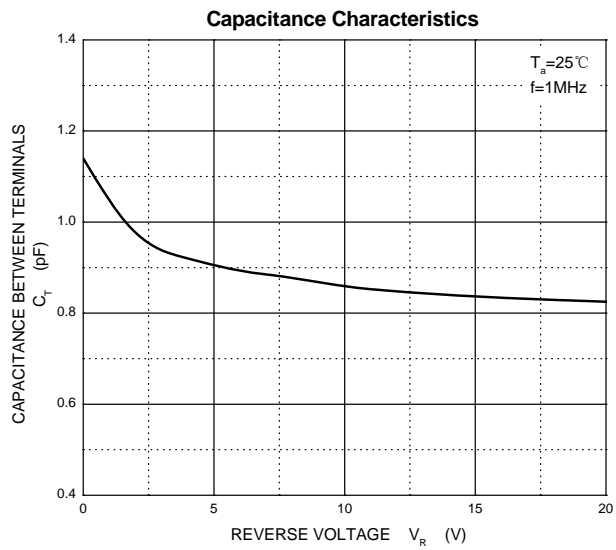
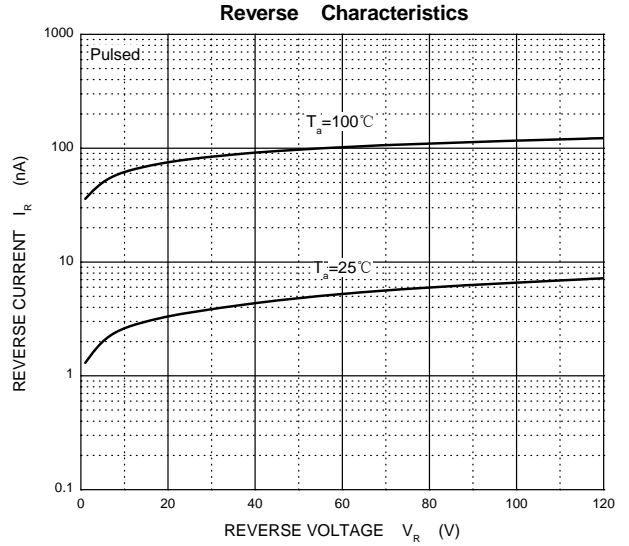
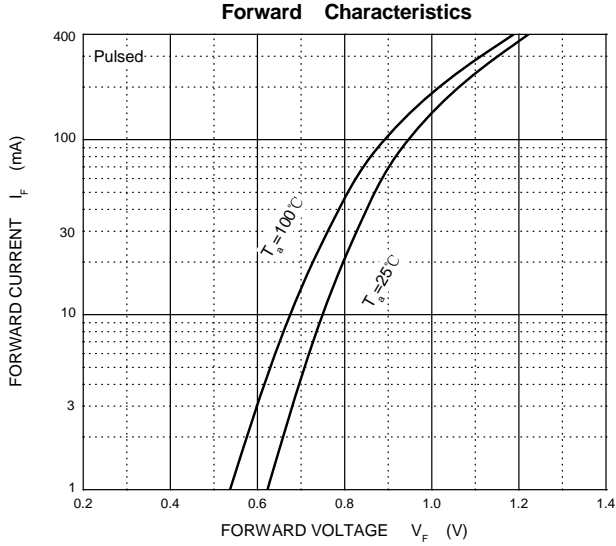
### ELECTRICAL CHARACTERISTICS( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	mbol	Test conditions	Min	Typ	Max	Unit
Reverse current	$I_R$	$V_R=100\text{V}$ BAV19W			0.1	uA
		$V_R=150\text{V}$ BAV20W			0.1	
		$V_R=200\text{V}$ BAV21W			0.1	
Forward voltage	$V_F$	$I_F=100\text{mA}$			1	V
		$I_F=200\text{mA}$			1.25	
Total capacitance	$C_{tot}$	$V_R=0\text{V}, f=1\text{MHz}$			5	pF
Reverse recovery time	$t_{rr}$	$I_F=I_R=30\text{mA}, I_{rr}=0.1*I_R, R_L=100\Omega$			50	ns

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## SWITCHING DIODES

### Typical Characteristics



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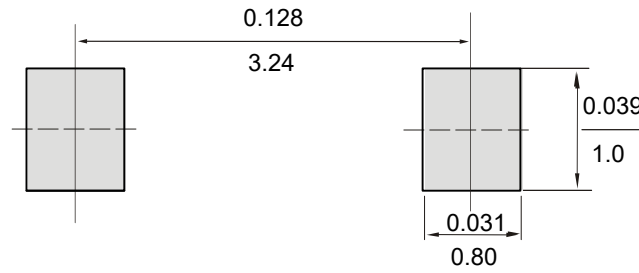
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## SWITCHING DIODES

### MOUNTING PAD LAYOUT

#### SOD-123

Unit:Inch(mm)




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### ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
BAV19W~BAV21W	SOD-123	7 Inch	3000

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