

BAV19W~BAV21W

SWITCHING DIODE

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

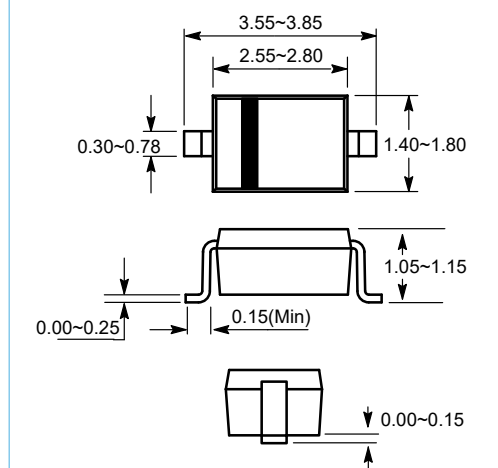
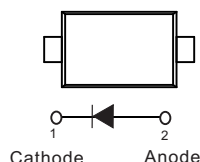
SOD-123 Unit:mm

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			$^\circ\text{C/W}$
T_j	Junction Temperature	150			$^\circ\text{C}$
T_{stg}	Storage Temperature	$-55\sim+150$			$^\circ\text{C}$

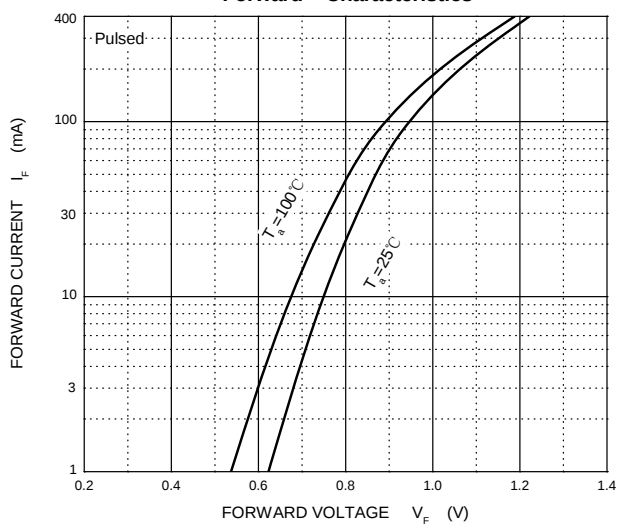
ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	mbol	Test conditions	Min	Typ	Max	Unit
Reverse current	I_R	$V_R=100\text{V}$ BAV19W			0.1	μA
		$V_R=150\text{V}$ 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

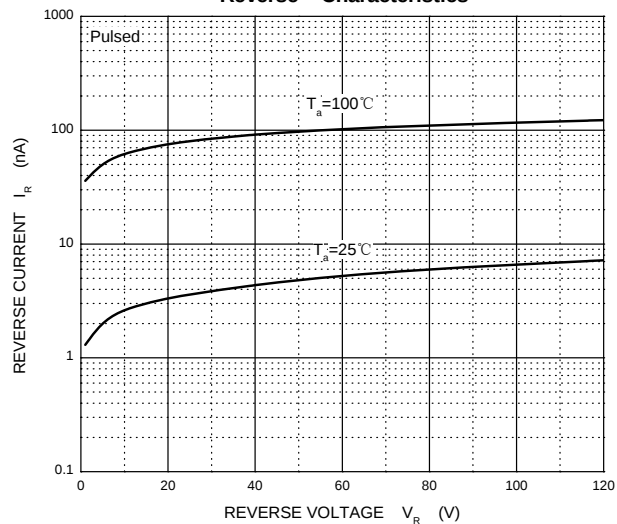
BAV19W~BAV21W

Typical Characteristics

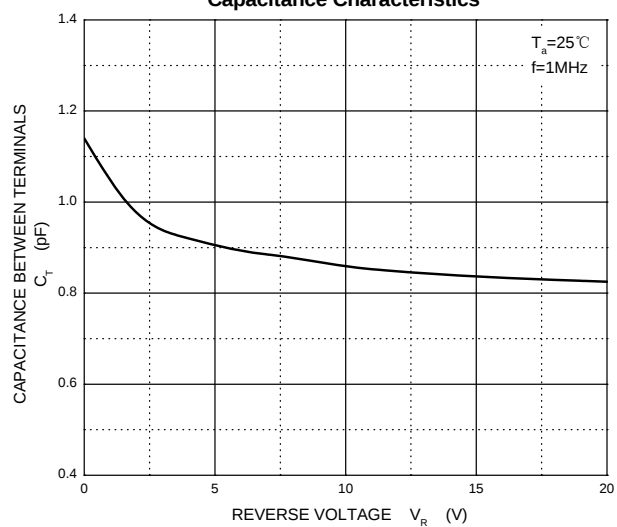
Forward Characteristics



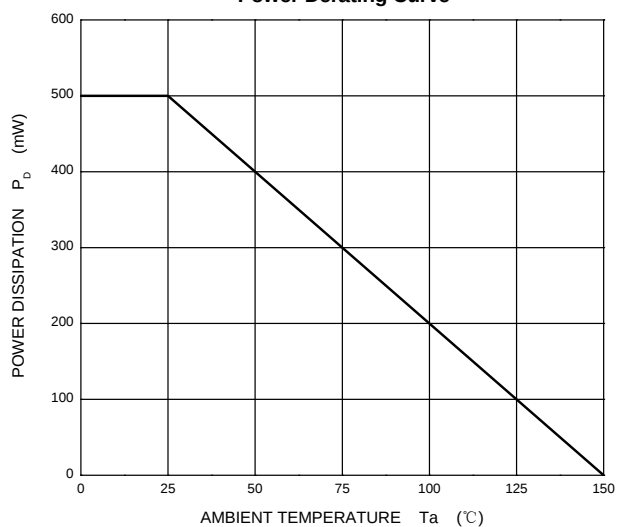
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

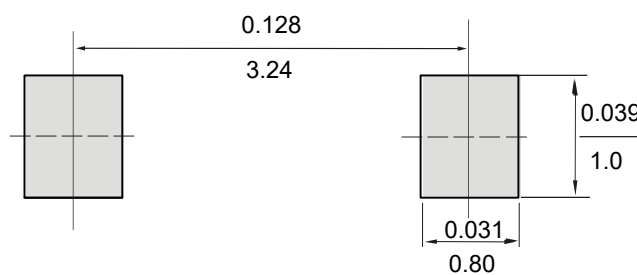


BAV19W~BAV21W

MOUNTING PAD LAYOUT

SOD-123

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

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