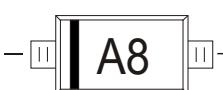
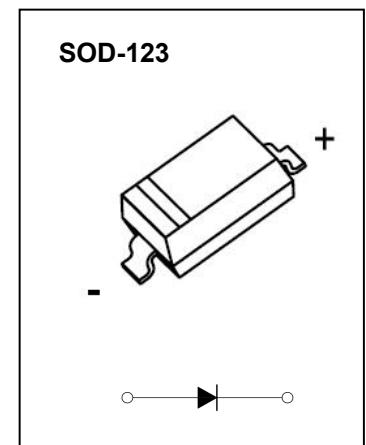


FEATURES

- Low Reverse Current
- Surface Mount Package Ideally Suited for Automatic Insertion
- Fast Switching Speed
- For General Purpose Switching Applications

MARKING:

BAV19W	BAV20W	BAV21W
A8	T2	T3
		

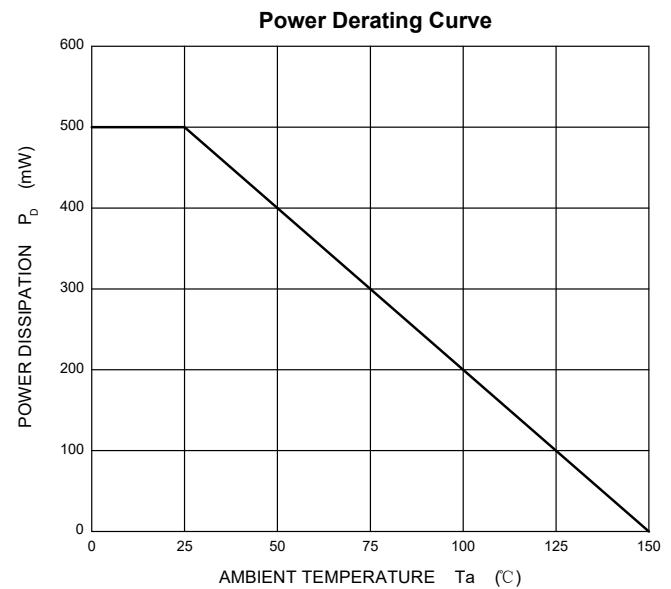
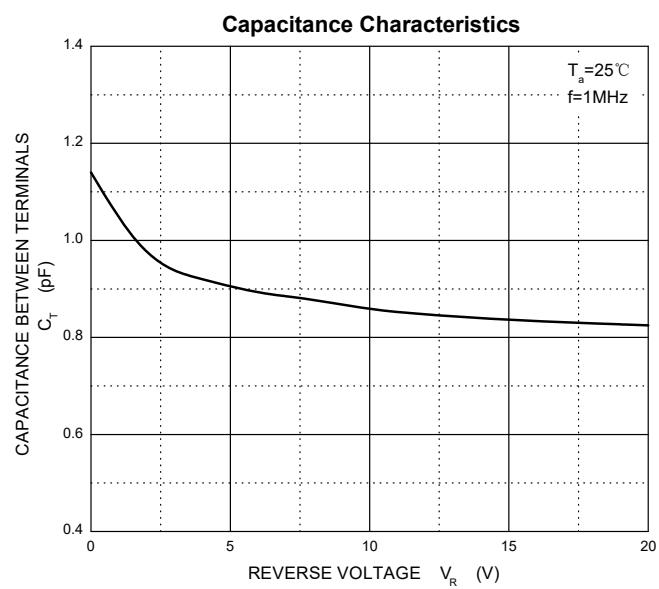
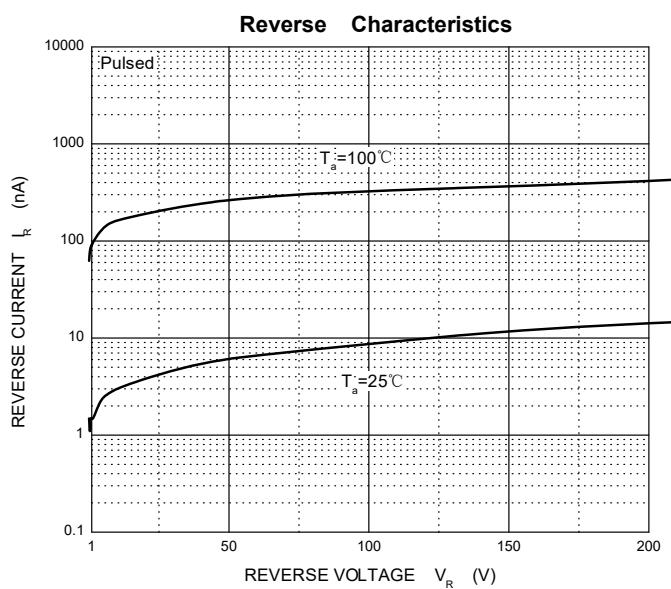
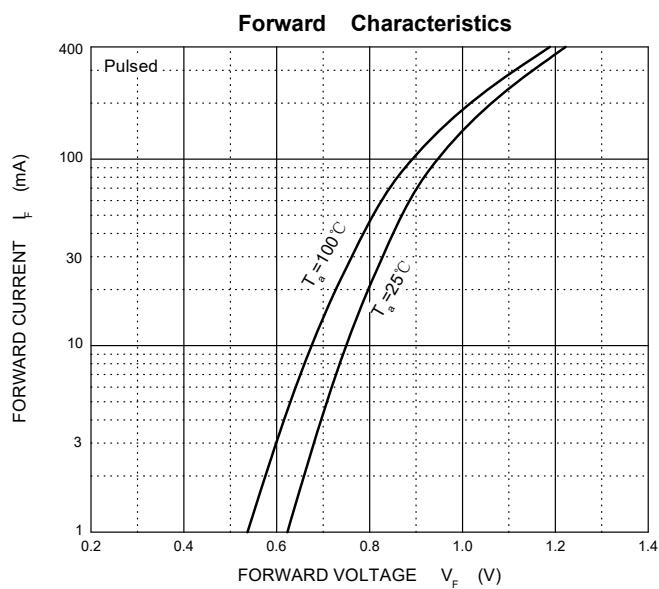

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

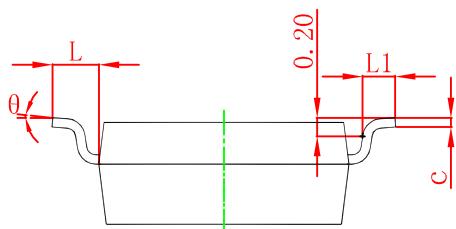
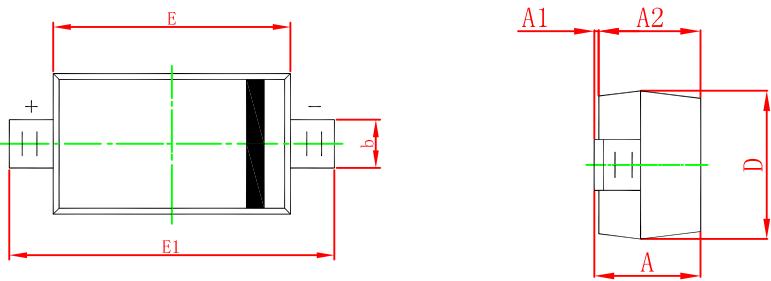
Symbol	Parameter	Value			Unit
		BAV19W	BAV20W	BAV21W	
V_{RM}	Non-Repetitive Peak Reverse Voltage	120	200	250	V
V_{RRM}	Peak Repetitive Reverse Voltage	100	150	200	V
V_{RWM}	Working Peak Reverse Voltage				
$V_{R(RMS)}$	RMS Reverse Voltage	71	106	141	V
I_o	Average Rectified Output Current	200			mA
I_{FSM}	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			°C/W
T_j	Junction Temperature	150			°C
T_{stg}	Storage Temperature	-55~+150			°C

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

Parameter	Symbol	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

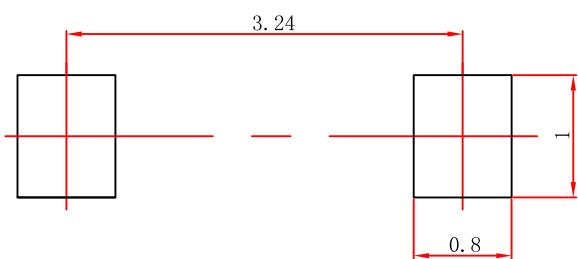
Typical Characteristics





Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°

SOD-123 Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.