

Features

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAV19WS	SOD-123	A8	3000
BAV20WS	SOD-123	T2	3000
BAV21WS	SOD-123	Т3	3000



SOD-123

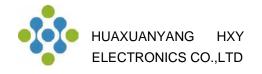


Maxmim Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value			
		BAV19W	BAV20W	BAV21W	Unit
V _{RM}	Non-Repetitive Peak Reverse Voltage	120	200	250	V
V _{RRM}	Peak Repetitive Reverse Voltage	100 150 200		200	
V _{RWM}	Working Peak Reverse Voltage	100	150	200	V
V _{R(RMS)}	RMS Reverse Voltage	71	106	141	V
lo	Average Rectified Output Current 200				mA
I _{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms	t @ t=8.3ms 2.0		А	
PD	Power Dissipation 500			mW	
R _{ØJA}	Thermal Resistance from Junction to Ambient 250			°C/W	
Tj	Junction Temperature 150			°C	
T _{stg}	Storage Temperature	-55~+150			°C

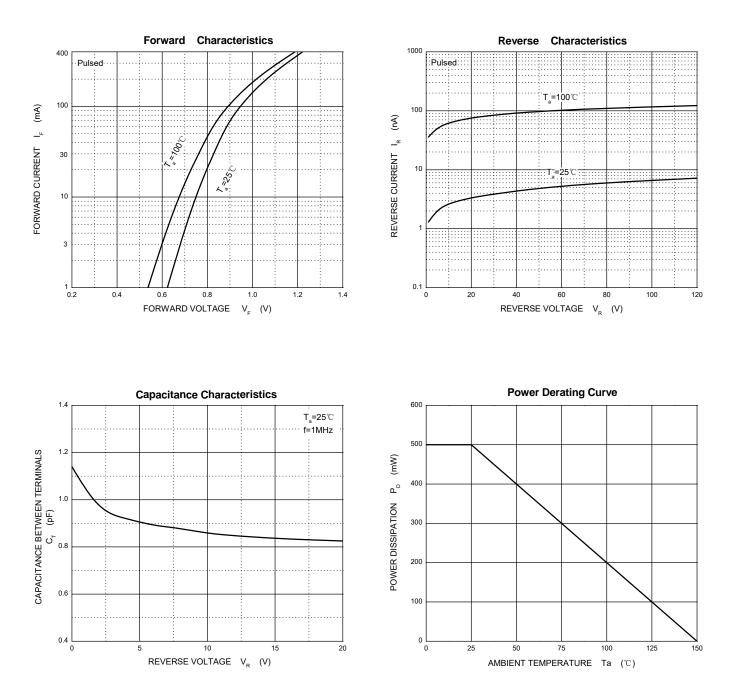
Electrcal Charcteristics (Ta=25 unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse current	I _R	V _R =100V	BAV19W			0.1	uA
		V _R =150V	BAV20W			0.1	
		V _R =200V	BAV21W			0.1	
Forward voltage	VF	I _F =100mA				1	V
		I _F =200mA				1.25	V
Total capacitance	C _{tot}	V _R =0V,f=1MHz				5	pF
Reverse recovery time	t _{rr}	$I_F = I_R = 30 \text{mA}, I_{rr} = 0.1*I_R, R_L$			50	ns	



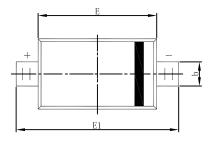
BAV19WS,BAV20WS,BAV21WS Switching Diodes

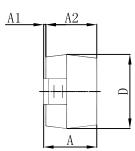
Typical Characteristics

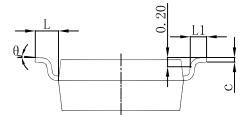




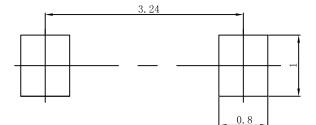
SOD-123 Package Outline Dimensions







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
А	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	
С	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°	



Note:

1.Controlling dimension:in millimeters.

2.General tolerance:±0.05mm.

3. The pad layout is for reference purposes only.



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