BAV19WS,BAV20WS,BAV21WS

Switching Diodes

Features

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

SOD-123



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

Maxmim Ratings (Ta=25 unless otherwise noted)

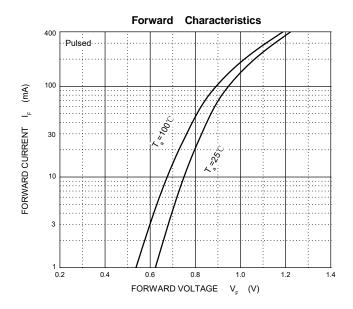
Symbol	Davamatas	Value			11
	Parameter	BAV19W	BAV20W	BAV21W	Unit
V _{RM}	Non-Repetitive Peak Reverse Voltage	120	200	250	V
V _{RRM}	Peak Repetitive Reverse Voltage	100 150 200		200	
V _{RWM}	Working Peak Reverse Voltage	100	150	200	V
V _{R(RMS)}	RMS Reverse Voltage	71	106	141	V
lo	Average Rectified Output Current	200		mA	
I _{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms	2.0		Α	
P _D	Power Dissipation	500		mW	
R _{OJA}	Thermal Resistance from Junction to Ambient	250			°C/W
Tj	Junction Temperature	erature 150		°C	
T _{stg}	Storage Temperature	-55~+150		℃	

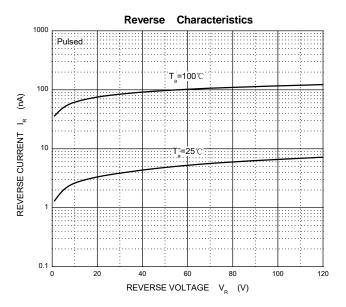
Electrical Charcteristics (Ta=25 unless otherwise specified)

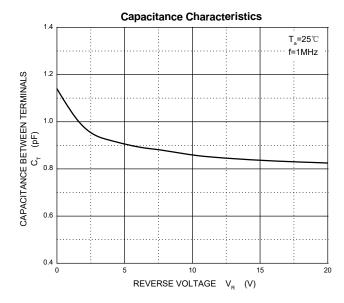
	` ',						
Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse current	I _R	V _R =100V	BAV19W			0.1	uA
		V _R =150V	BAV20W			0.1	
		V _R =200V	BAV21W			0.1	
Forward voltage	V _F	I _F =100mA				1	V
		I _F =200mA				1.25	V
Total capacitance	C _{tot}	V _R =0V,f=1MHz				5	pF
Reverse recovery time	t _{rr}	$I_F = I_R = 30 \text{mA}, I_{rr} = 0.1 \text{*} I_R, R_L = 100 \Omega$				50	ns

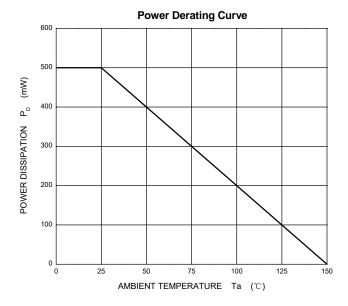


Typical Characteristics



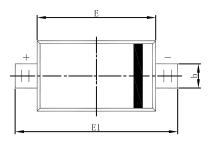


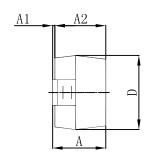


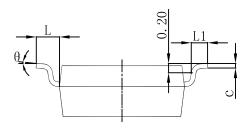




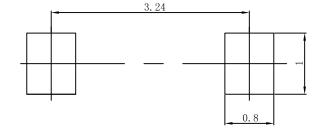
SOD-123 Package Outline Dimensions







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	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	
Е	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.

SD103AW/SD103BW/SD103CW SCHOTTKY BARRIER DIODE

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