

BAV21WS

SURFACE MOUNT SWITCHING DIODE

Voltage

250V

Power

200mW

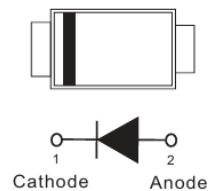
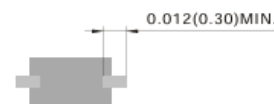
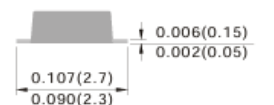
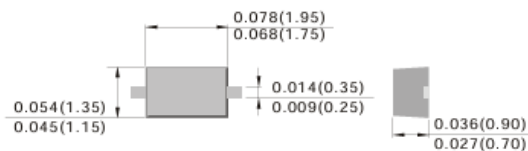
Features

- Fast switching speed
- Surface mount package Ideally Suited Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 Standard

Mechanical Data

- Case : SOD-323 Package, Molded Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight : 0.00967 grams

SOD-323



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Maximum Ratings (T_A=25°C unless otherwise noted)

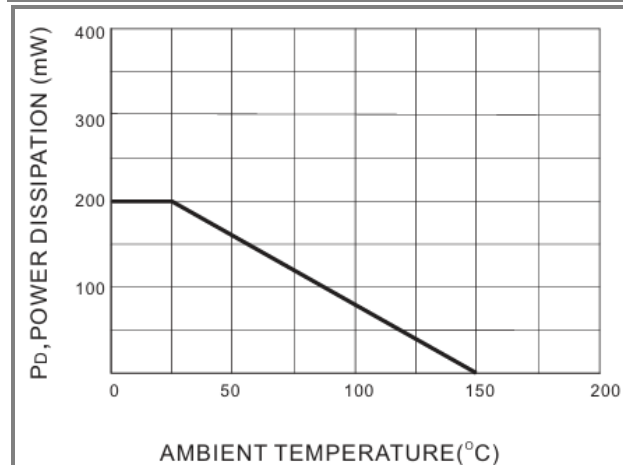
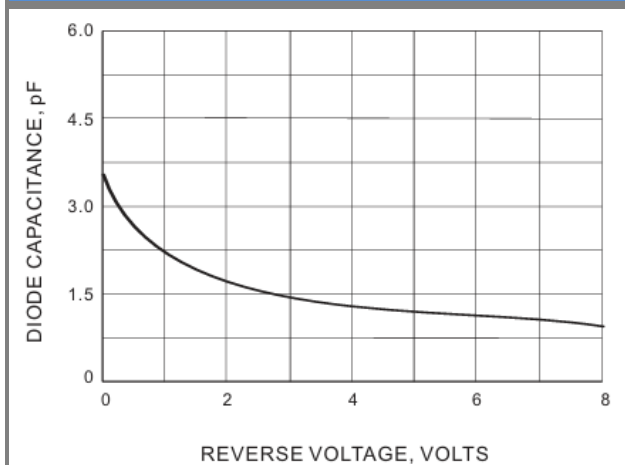
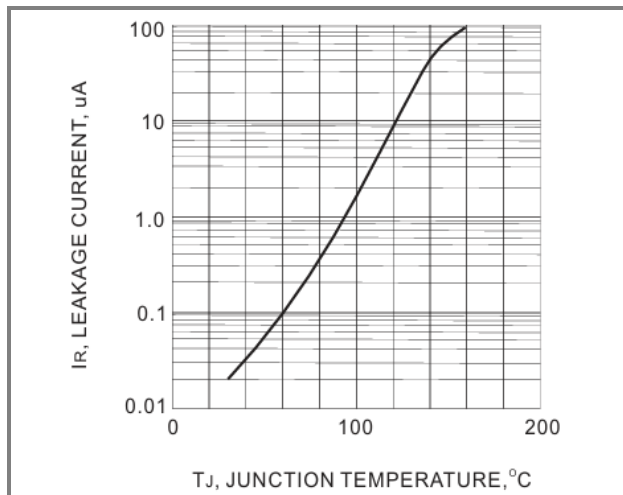
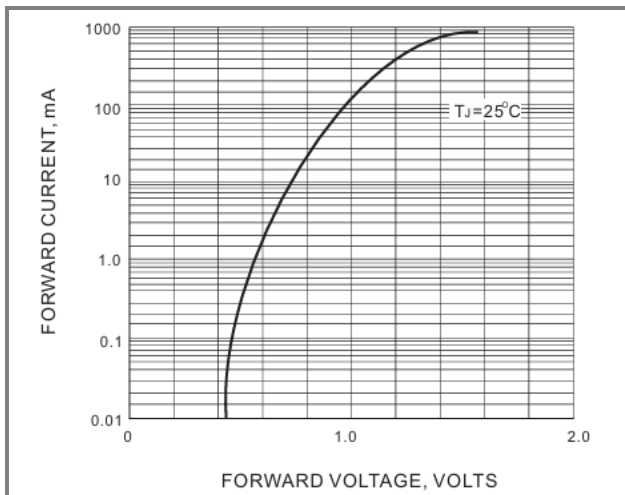
PARAMETER	SYMBOL	BAV21WS	UNITS
Reverse voltage	V _R	200	V
Peak reverse voltage	V _{RM}	250	V
Rectified Current (Average) , Half Wave Rectification with Resistive Load and f > 50 Hz	I _o	200	mA
Peak forward surge current , 0.001ms	I _{FSM}	4	A
Repetitive Peak Forward Current at f ≥ 50Hz, Θ=180°, Tamb=25°C	I _{FRM}	625	mA
Power Dissipation derate above 25°C	P _{TOT}	200	mW
Maximum forward voltage at 0.1A	V _F	1	v
Maximum dc reverse current at rated dc blocking voltage T _J =25°C	I _R	0.1	μA
Typical Junction capacitance (Note 1)	C _J	5	pF
Maximum reverse recovery time (Note 2)	T _{RR}	50	ns
Typical Thermal Resistance	(Note3) R _{θJA}	640	°C/W
	(Note4) R _{θJC}	260	
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150	°C

Note :

1. C_J at V_R=0V,f=1MHz
2. From I_F = 10mA to I_R = 1Ma, V_R = 6Volts, R_L = 100Ω
3. Mount with min mum recommended pad size ,PC Board FR4
- 4.Mount on FR-4 PCB, single-side copper, with 100 cm2 copper pad area.

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TYPICAL CHARACTERISTIC CURVES

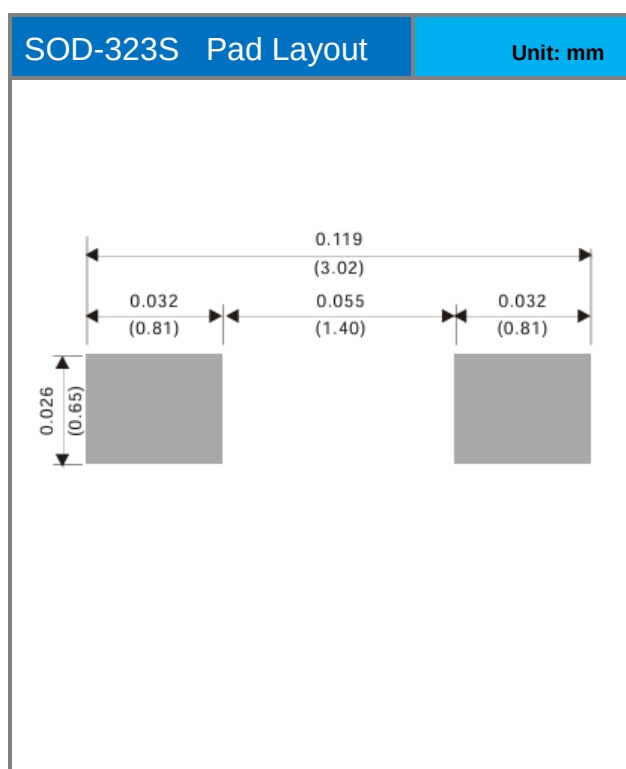


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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
BAV21WS_R1_00101	SOD-323	5K pcs / 7" reel	A82
BAV21WS_R2_00101		12K pcs / 13" reel	

Mounting Pad Layout



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