

SOD323 Plastic-Encapsulate Diodes

Small Signal Fast Switching Diodes

Features

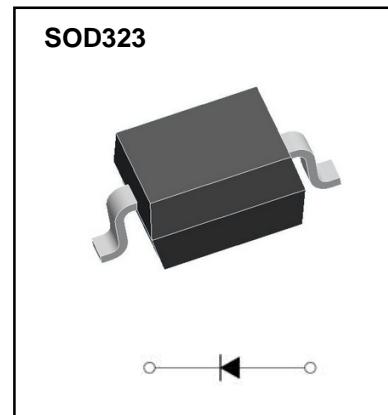
- Low Reverse Current
- Surface Mount Package Ideally Suited for Automatic Insertion
- Fast Switching Speed
- For General Purpose Switching Applications

Applications

- Extreme fast switches

Marking

- BAV19WS: A8
- BAV20WS: T2
- BAV21WS: T3



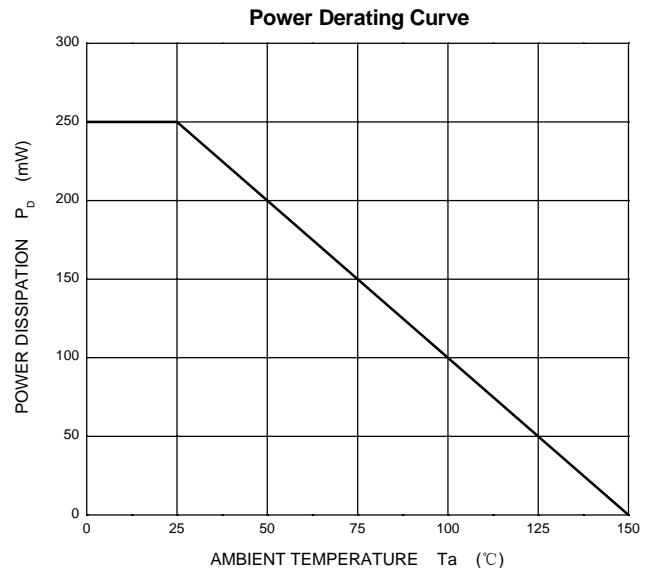
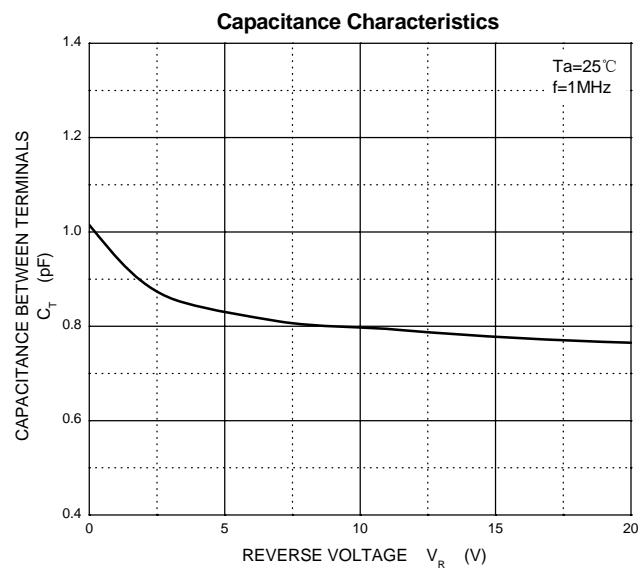
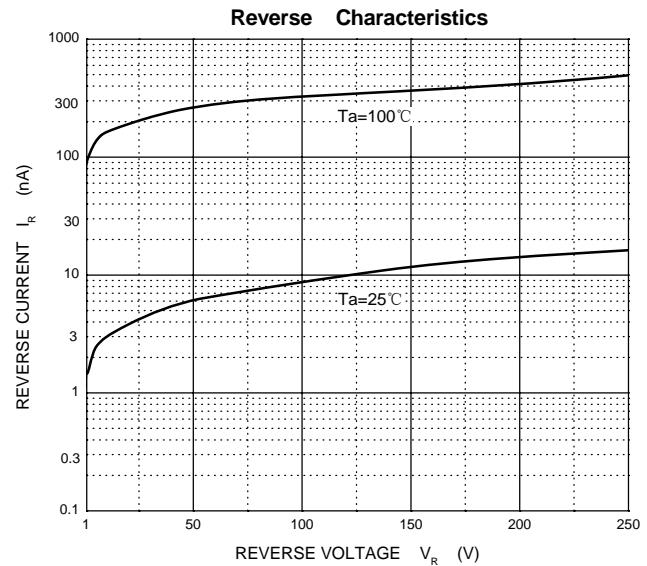
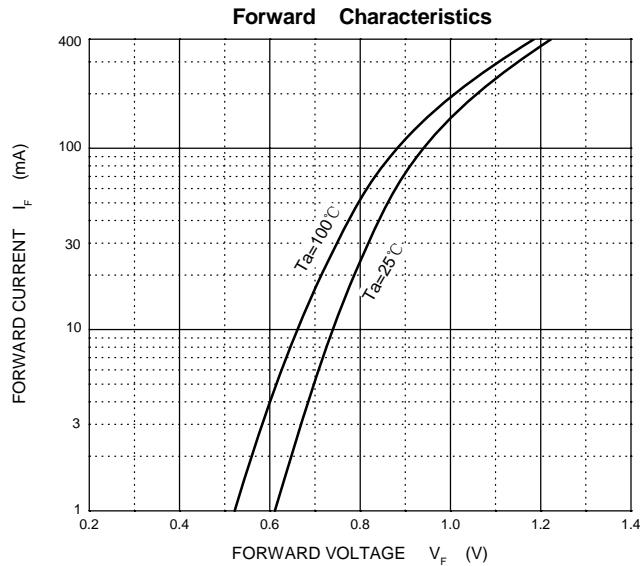
Limiting Values (Absolute Maximum Rating)

Symbol	Parameter	Value			Unit
		BAV19WS	BAV20WS	BAV21WS	
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=8.3ms	2.0			A
P_D	Power Dissipation	250			mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	500			°C/W
T_j	Junction Temperature	150			°C
T_{stg}	Storage Temperature	-55~+150			°C

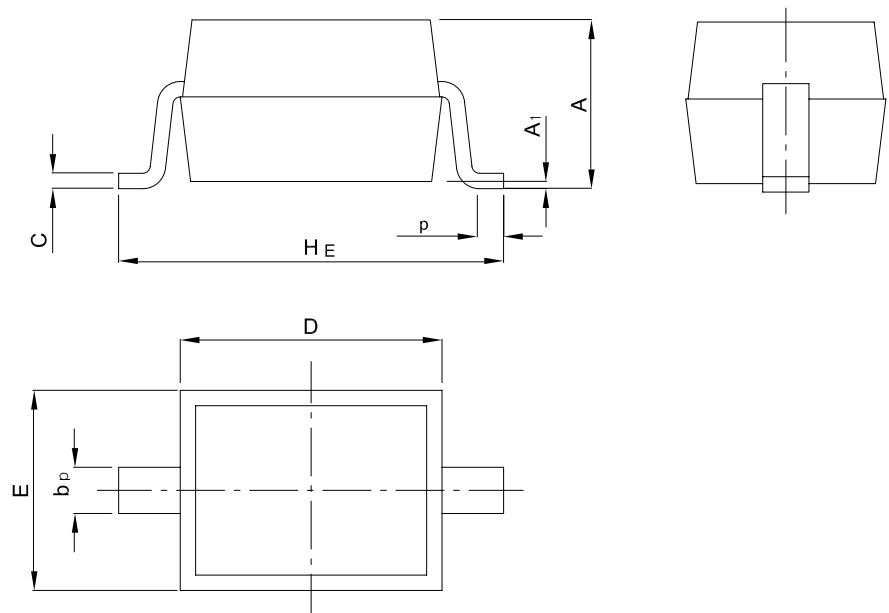
Electrical Characteristics ($T_A=25^\circ C$ unless otherwise noted)

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Reverse current	I_R	$V_R=100V$	BAV19WS			0.1	uA
		$V_R=150V$	BAV20WS			0.1	
		$V_R=200V$	BAV21WS			0.1	
Forward voltage	V_F	$I_F=100mA$				1	V
		$I_F=200mA$				1.25	
Total capacitance	C_{tot}	$V_R=0V, f=1MHz$				5	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 30mA, I_{rr}=0.1*I_R, R_L=100\Omega$				50	ns

Typical Characteristics

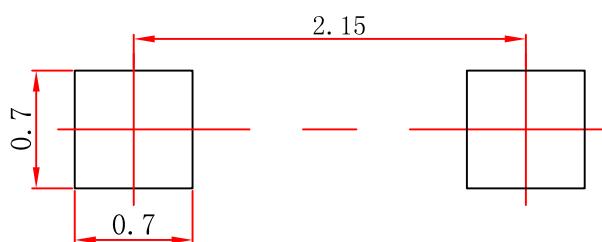


SOD323 Package Outline Dimensions



UNIT	A	b _p	C	D	E	H _E	A ₁	L _p
mm	1.20 0.80	0.40 0.25	0.15 0.10	1.80 1.60	1.35 1.15	2.80 2.30	0.10 0.01	0.50 0.20

SOD323 Suggested Pad Layout



Note:

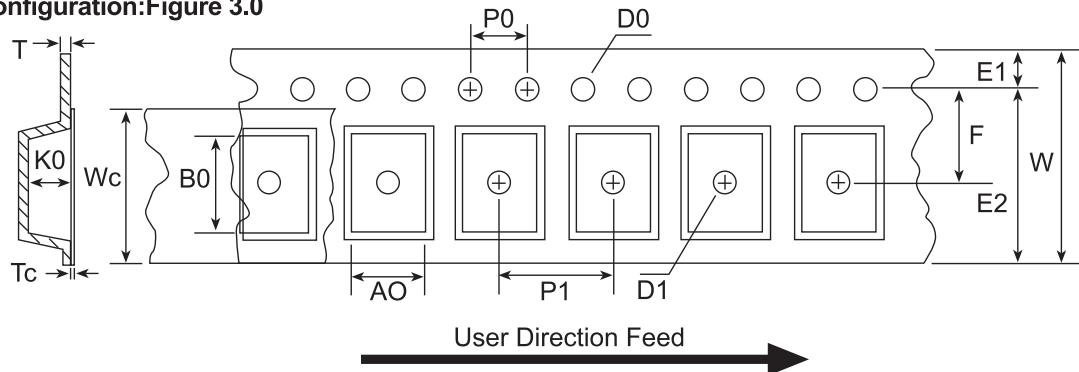
1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.

NOTICE

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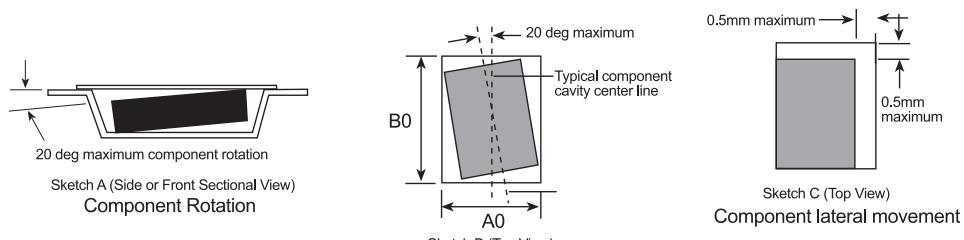
Reel Taping Specifications For Surface Mount Devices-SOD323

SOD323 Embossed Carrier Tape Configuration:Figure 3.0

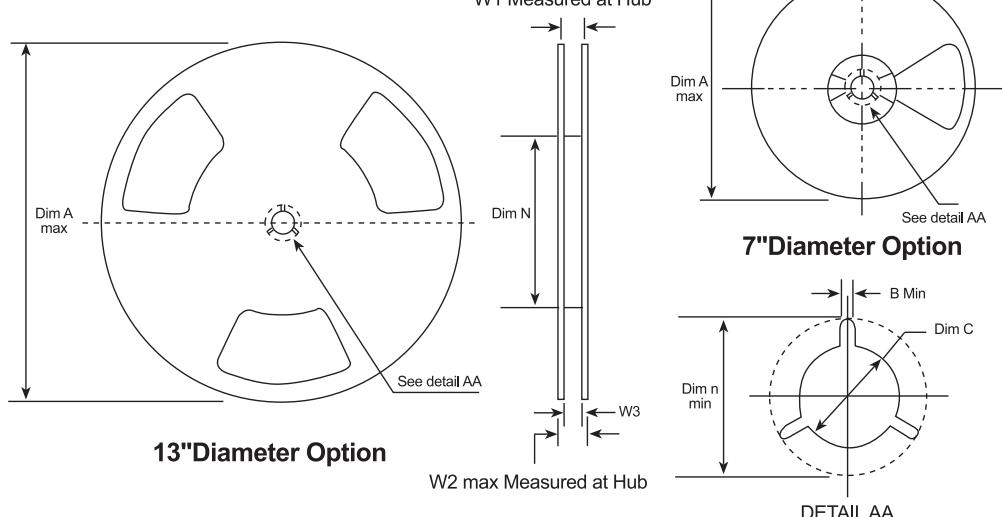


Dimensions are millimeter														
Pkg type	A0	B0	W	D0	D1	E1	E2	F	P1	P0	K0	T	Wc	Tc
SOD323 (8mm)	1.46 +/-0.10	2.9 +/-0.10	8.0 +/-0.3	1.50 +/-0.125	1.125 +/-0.125	1.75 +/-0.10	6.25 min	3.50 +/-0.05	4.0 +/-0.10	4.0 +/-0.10	1.25 +/-0.10	0.25 +/-0.020	5.2 +/-0.20	0.06 +/-0.02

Notes:A0,B0 and K0 dimensions are determined with respect to the EW Jedecl RS-481 rotational and lateral movement requirements (see sketches A,B and C).



SOD323 Reel Configuration:Figure 4.0



Dimensions are in inches and millimeter									
Type Size	Reel Option	Dim A	Dim B	Dim C	Dim D	Dim N	Dim W1	Dim W2	Dim W3 (LSL-USL)
8mm	7" Dia	7.00 177.8	0.059 1.5	512+0.020/-0.008 13+0.5/-0.2	0.795 20.0	2.165 55	0.331+0.059/-0.000 8.4+1.5/0	0.567 14.4	0.311-0.429 7.9-10.9
8mm	13" Dia	13.00 330	0.059 1.5	512+0.020/-0.008 13+0.5/-0.2	0.795 20.0	4.00 100	0.331+0.059/-0.000 8.4+1.5/0	0.567 14.4	0.311-0.429 7.9-10.9

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