

## SOD323 Plastic-Encapsulate Diodes

Small Signal Fast Switching Diodes

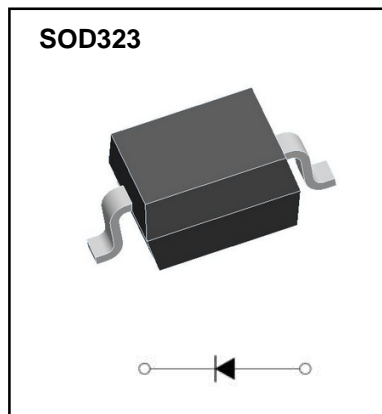
### Features

- $V_R$  75V
- $I_{FAV}$  150mA

### Applications

- Extreme fast switches

**Marking: T4**



### Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	Limit
Non-Repetitive Peak Reverse Voltage	V <sub>RSM</sub>	V		100
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V		75
Repetitive Peak Forward Current	I <sub>FRM</sub>	mA		300
Non-Repetitive Peak Forward Current	I <sub>FSM</sub>	A	Pulse width=1 us	2
Continuous Forward Current	I <sub>O</sub>	mA		150
Power Dissipation	PD	mW		200
Junction Temperature	T <sub>J</sub>	°C		150
Storage Temperature	T <sub>STG</sub>	°C		-55 to +150

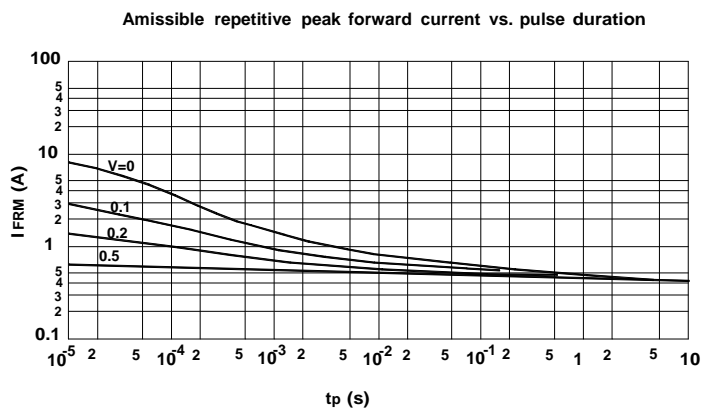
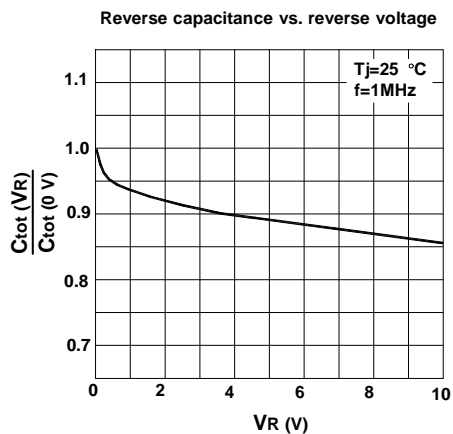
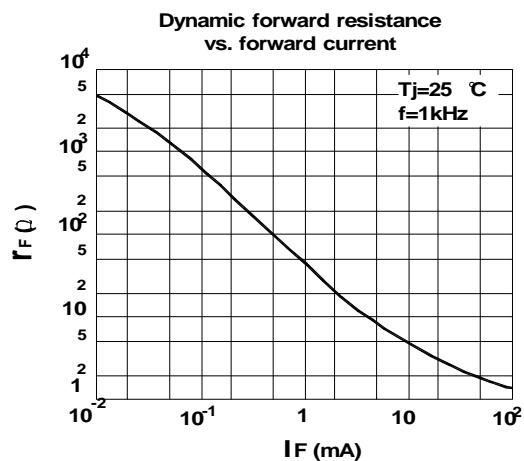
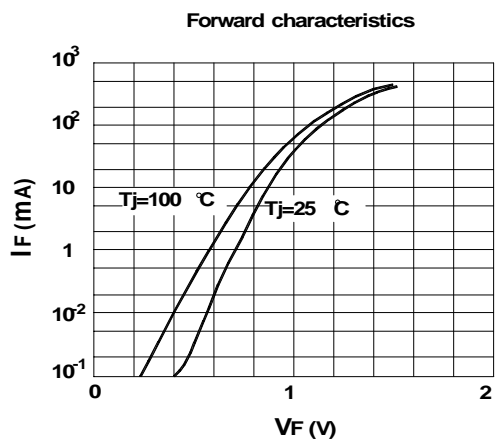
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**Electrical Characteristics ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)**

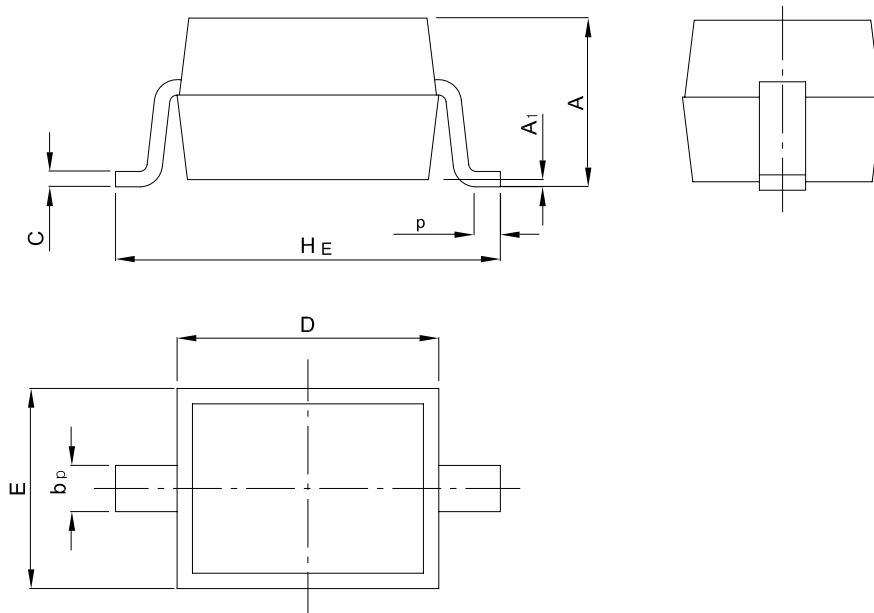
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Item	Symbol	Unit	Conditions	Min	Max
Forward Voltage	VF	V	IF=1.0mA		0.715
			IF=10mA		0.855
			IF=50mA		1.0
			IF=150mA		1.25
Reverse Leakage Current	IR1	nA	VR=20V		25
	IR2	uA	VR=75V		1
Capacitance	CT	pF	VR=0V,f=1MHz		2
Reverse Recovery Time	trr	ns	IF=IR=10mA, Irr=0.1*IR, RL=100Ω		4.0

# Typical Characteristics

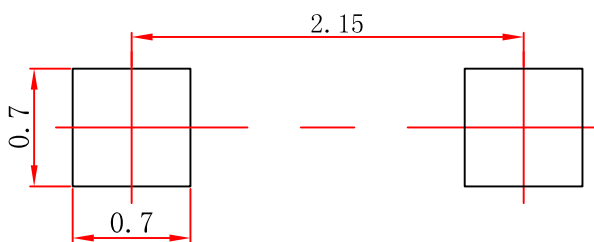


## SOD323 Package Outline Dimensions



UNIT	A	bp	C	D	E	HE	A1	Lp
mm	1.20	0.40	0.15	1.80	1.35	2.80	0.10	0.50
	0.80	0.25	0.10	1.60	1.15	2.30	0.01	0.20

## SOD323 Suggested Pad Layout



### Note:

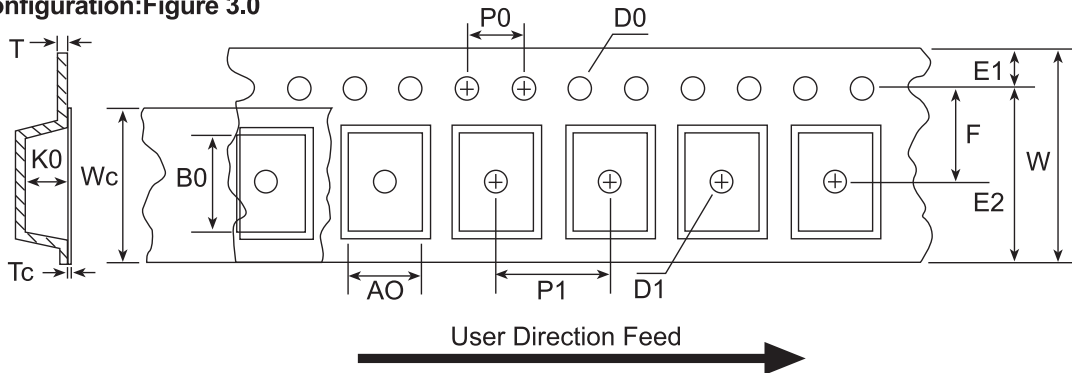
1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05$  mm.
3. The pad layout is for reference purposes only.

### NOTICE

JSHD reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. JSHD does not assume any liability arising out of the application or use of any product described herein.

# Reel Taping Specifications For Surface Mount Devices-SOD323

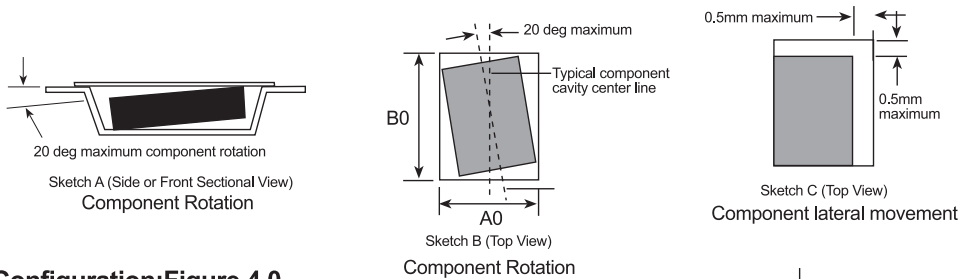
## SOD323 Embossed Carrier Tape Configuration: Figure 3.0



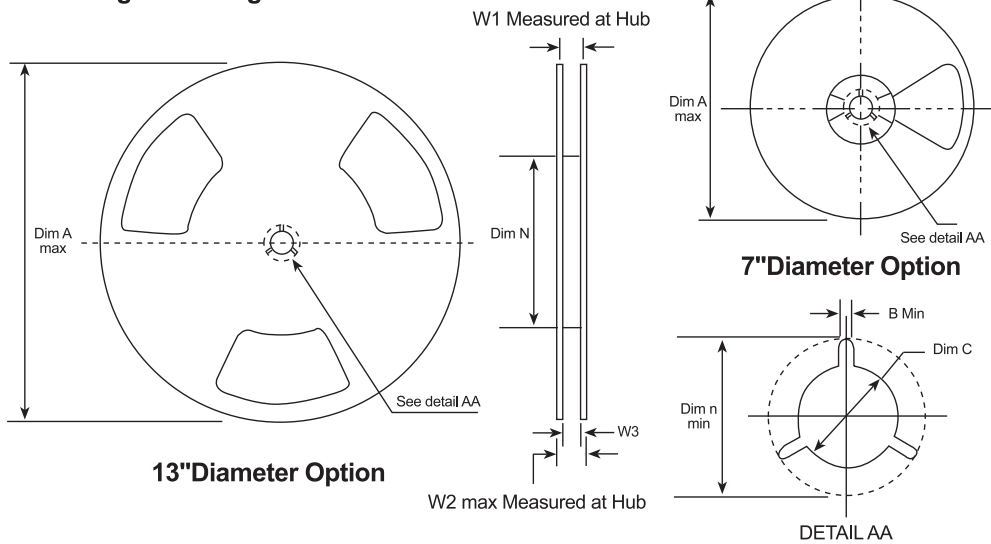
Dimensions are millimeter

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 Jeced 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