

SOD323 Plastic-Encapsulate Diodes

Small Signal Fast Switching Diodes

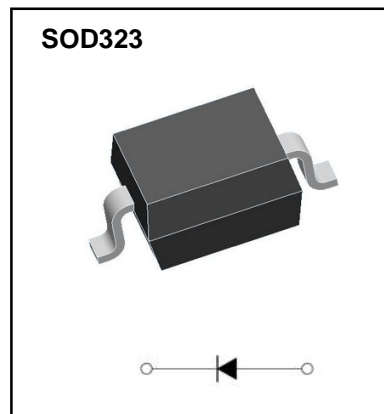
Features

- V_R 75V
- I_{FAV} 150mA

Applications

- Extreme fast switches

Marking: T4



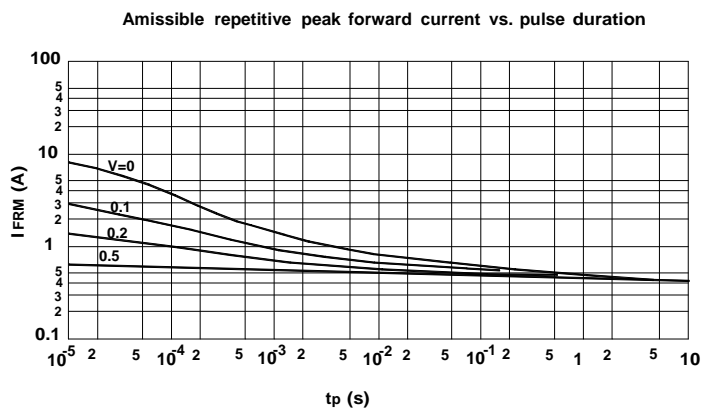
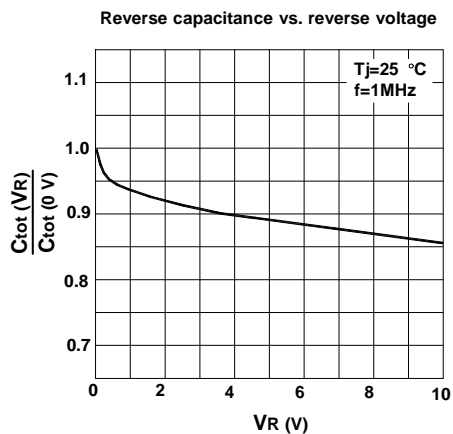
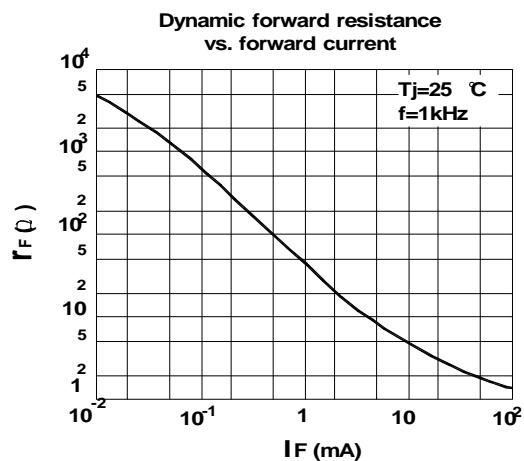
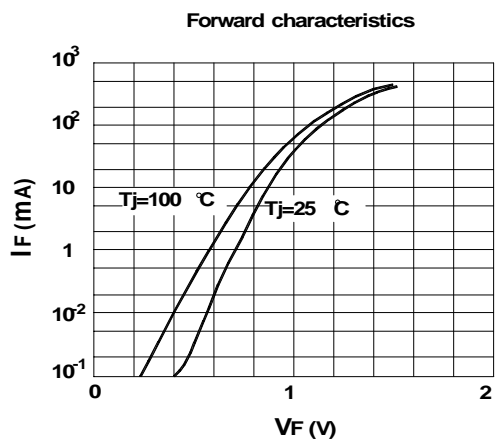
Limiting Values (Absolute Maximum Rating)

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

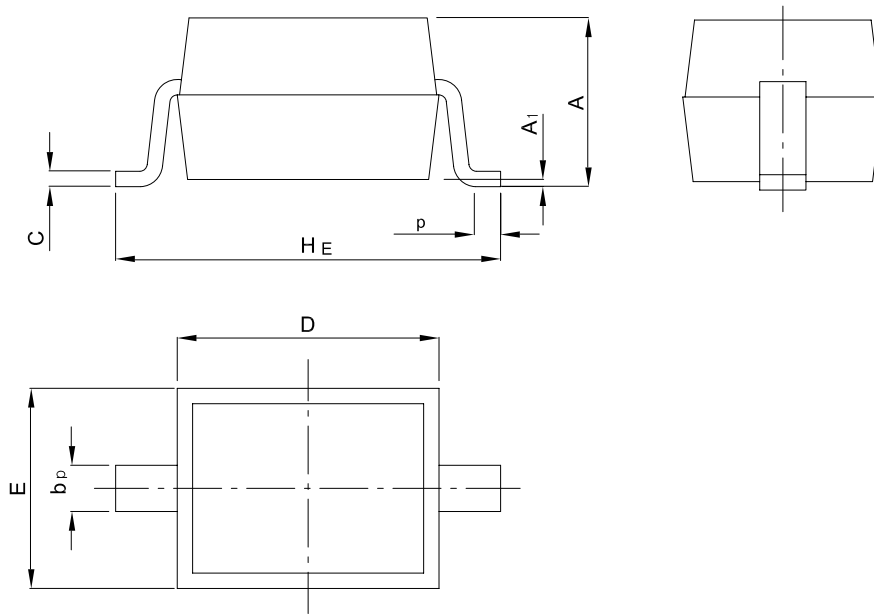
Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

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

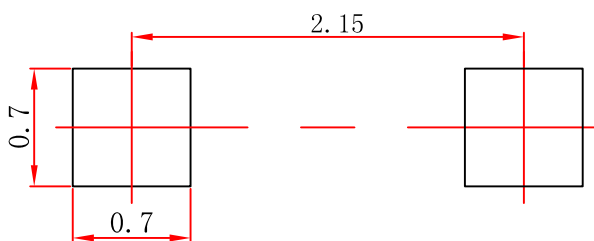


SOD323 Package Outline Dimensions



UNIT	A	b _p	C	D	E	H _E	A ₁	L _p
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:

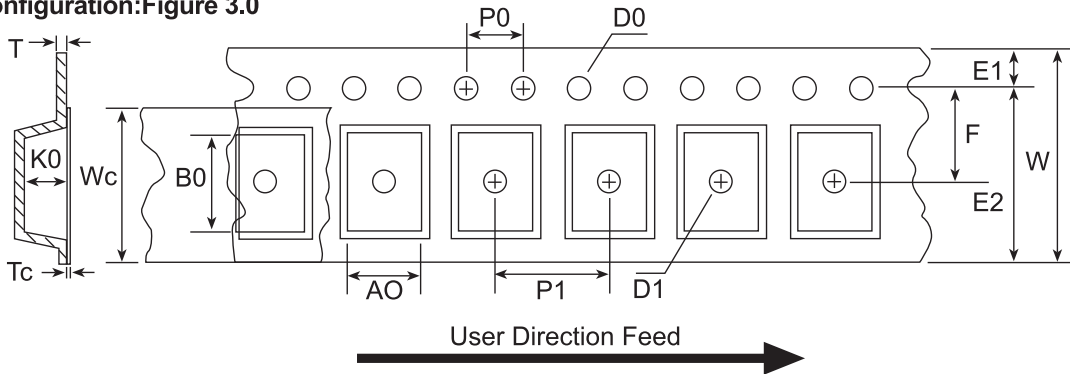
1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.

NOTICE

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Reel Taping Specifications For Surface Mount Devices-SOD323

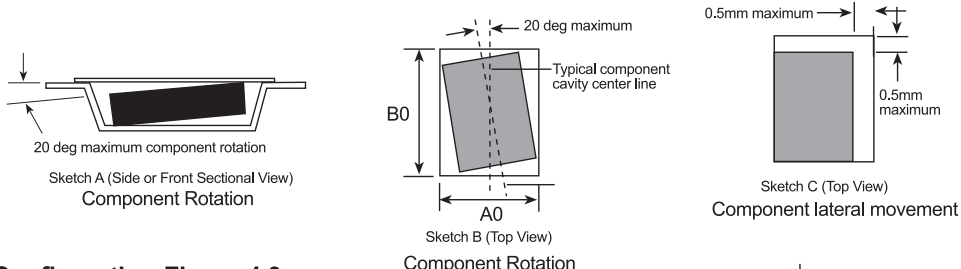
SOD323 Embossed Carrier Tape Configuration: Figure 3.0



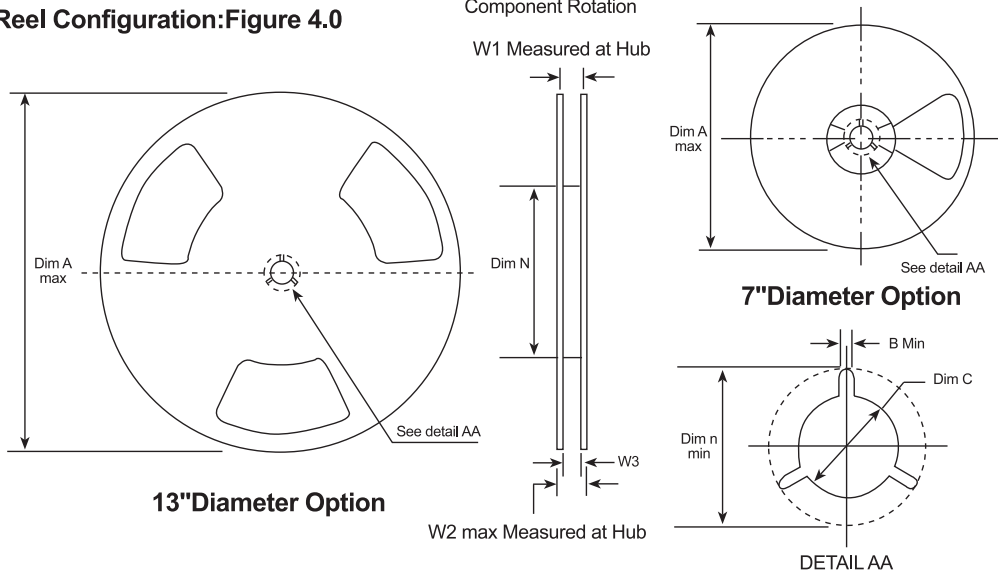
Dimensions are millimeter

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 Jedec 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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