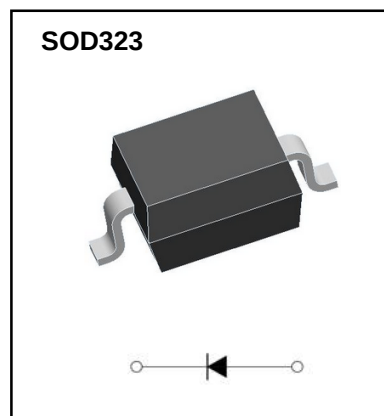


SOD323 Plastic-Encapsulate Diodes

Schottky Rectifier

Features

- High Current Rectifier Schottky Diode with Low V_F Drop
- Low Voltage, Low Inductance
- For Power Supply
- For Detection and Step-up-Conversion



Marking

- W5

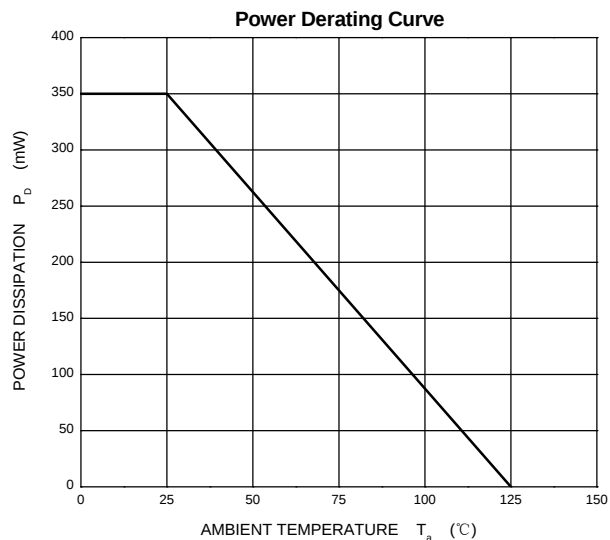
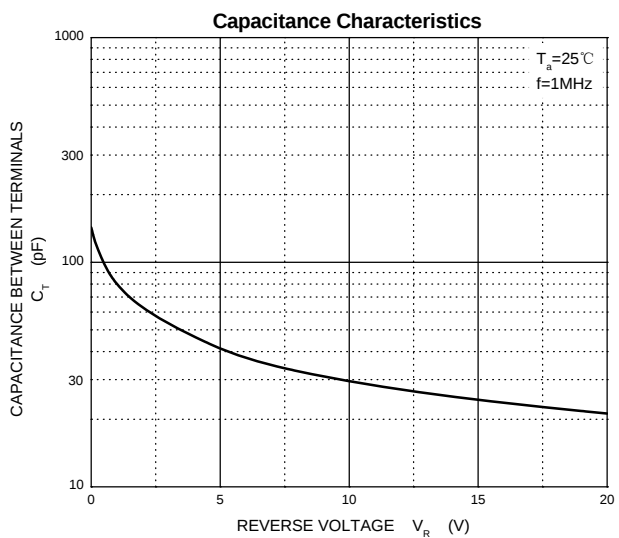
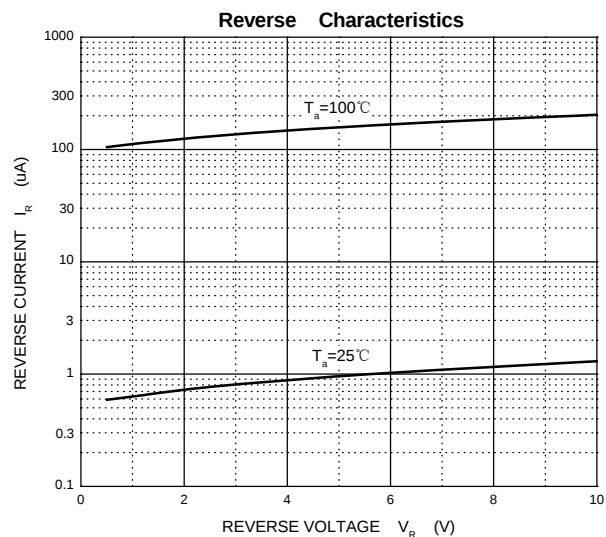
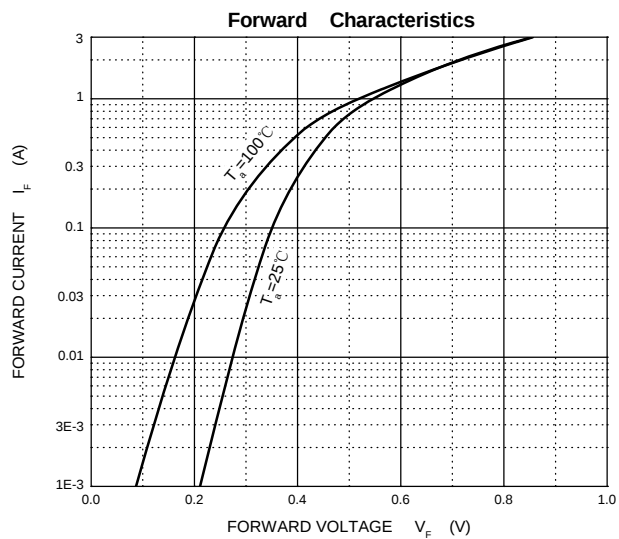
Limiting Values (Absolute Maximum Rating)

Symbol	Parameter	Value	Unit
V_R	DC Blocking Voltage	10	V
I_F	Forward Current	3	A
I_{FSM}	Non-repetitive Peak Forward Surge Current @ $t=8.3ms$	5	
P_D	Power Dissipation	350	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	286	°C/W
T_j	Junction Temperature	125	°C
T_{stg}	Storage Temperature	-55~+150	°C

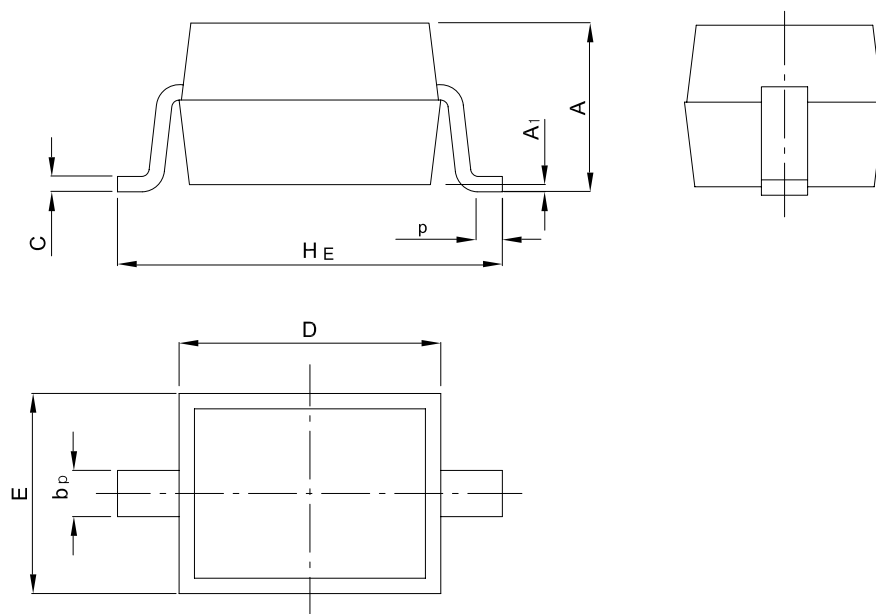
Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=1mA$	10			V
Reverse current	I_R	$V_R=5V$			15	μA
		$V_R=8V$			25	μA
Forward voltage	V_F	$I_F=100mA$			0.38	V
		$I_F=500mA$			0.5	
		$I_F=1000mA$			0.6	
Total capacitance	C_{tot}	$V_R=5V, f=1MHz$		30		pF

Typical Characteristics

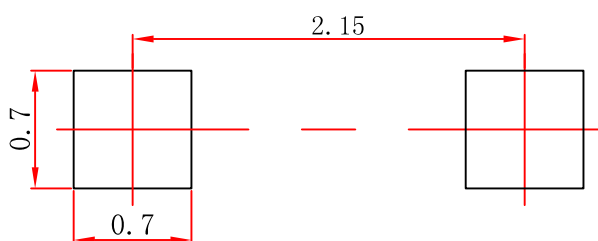


SOD323 Package Outline Dimensions



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:

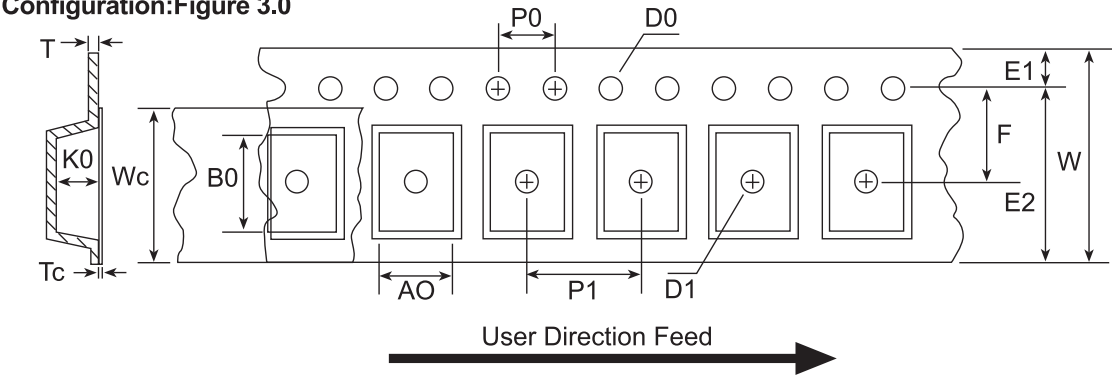
1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.

NOTICE

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.

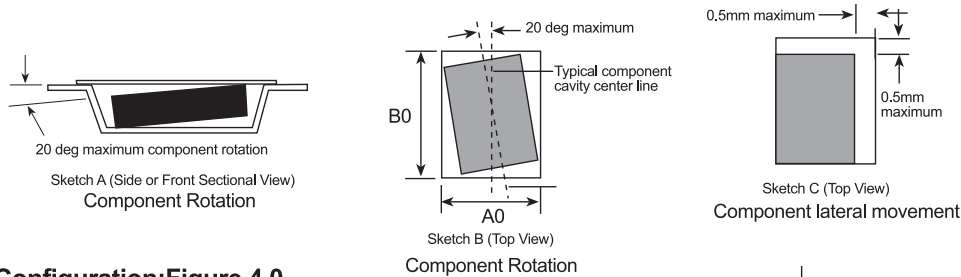
Reel Taping Specifications For Surface Mount Devices–SOD323

SOD323 Embossed Carrier Tape
Configuration:Figure 3.0

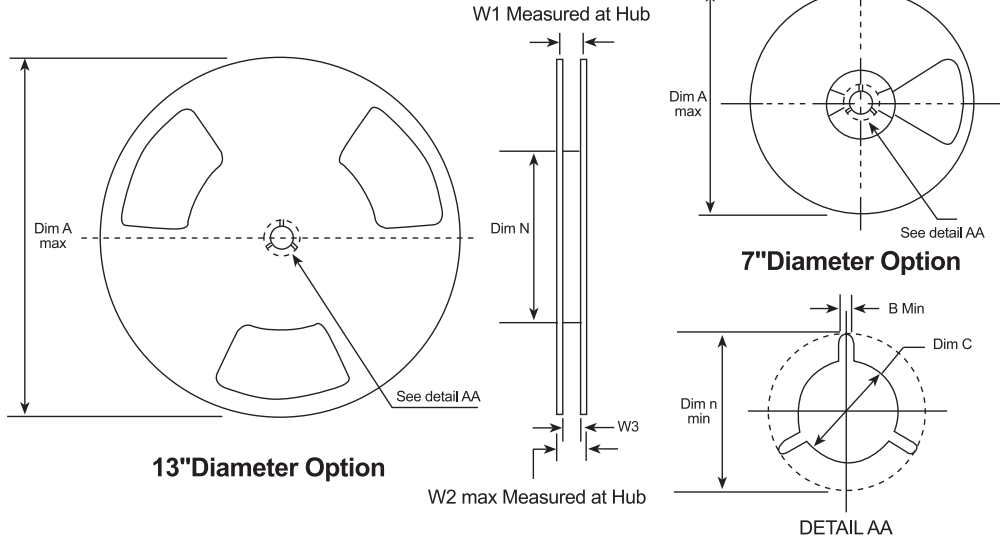


Dimensions are millimeter														
Pkg type	A0	B0	W	D0	D1	E1	E2	F	P1	P0	K0	T	Wc	Tc
SOD323 (8mm)	1.46 +/-0.10	2.9 +/-0.10	8.0 +/-0.3	1.50 +/-0.125	1.125 +/-0.125	1.75 +/-0.10	6.25 min	3.50 +/-0.05	4.0 +/-0.10	4.0 +/-0.10	1.25 +/-0.10	0.25 +/-0.020	5.2 +/-0.20	0.06 +/-0.02

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