

SOD323 Plastic-Encapsulate Diodes

Schottky Rectifier

Features

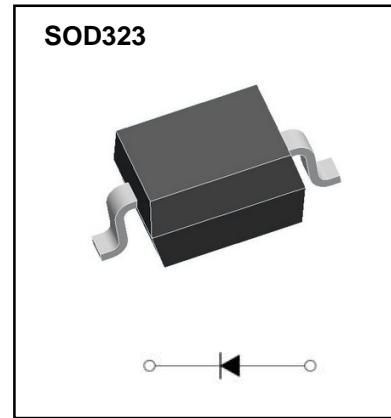
- V_R 20V-40V
- I_O 1A

Applications

- Low Voltage Rectification
- Low Power Consumption Applications
- High Efficiency DC/DC Conversion

Marking

- B5817WS:SJ
- B5818WS:SK
- B5819WS:SL



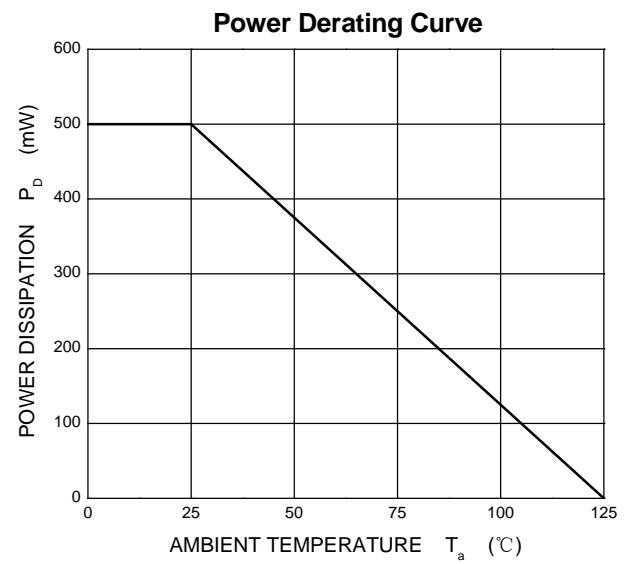
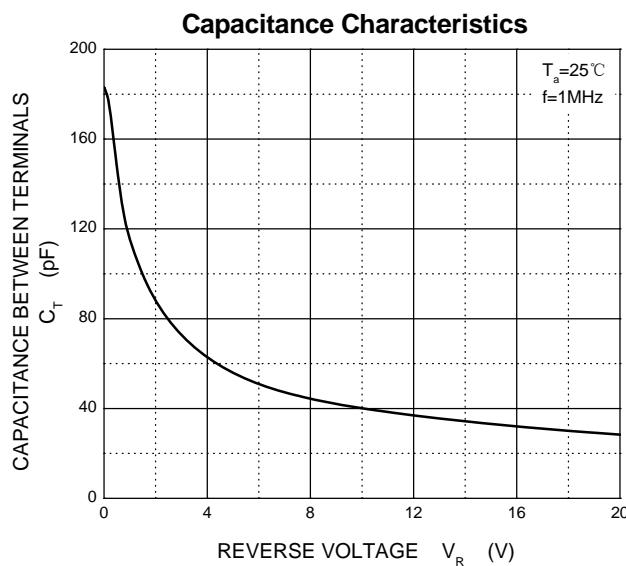
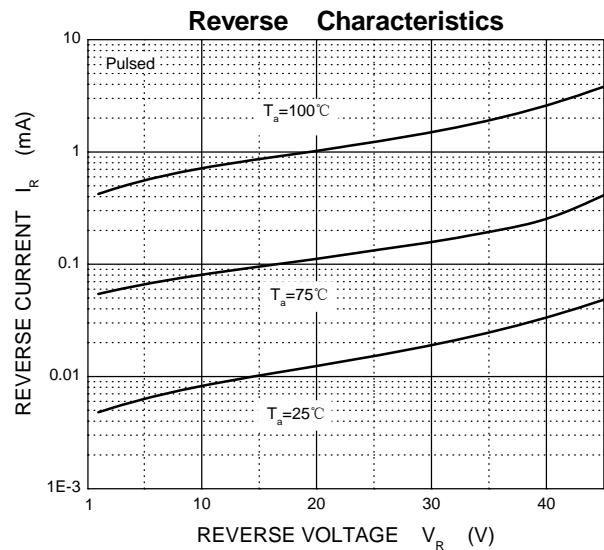
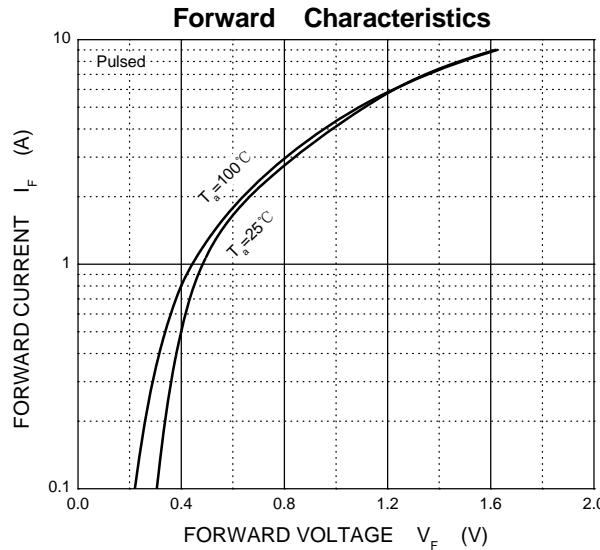
Limiting Values (Absolute Maximum Rating)

Parameter	Symbol	B5817WS	B5818WS	B5819WS	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	20	30	40	V
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	20	30	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	V
Average Rectified Output Current	I_O		1		A
Non-repetitive Peak Forward Surge Current $@t=8.3ms$	I_{FSM}		9		A
Repetitive Peak Forward Current	I_{FRM}		1.5		A
Power Dissipation	P_d		500		mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$		400		°C/W
Junction temperature	T_J		125		°C
Storage Temperature	T_{STG}		-55~+150		°C

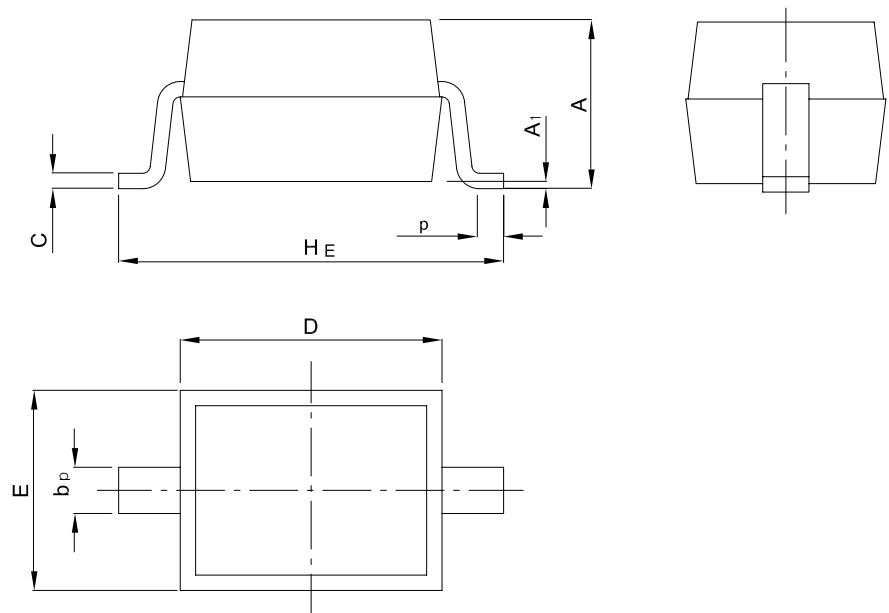
Electrical Characteristics ($T_a=25^\circ C$ Unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=1mA$ B5817WS B5818WS B5819WS	20 30 40		V
Reverse voltage leakage current	I_R	$V_R=20V$ B5817WS $V_R=30V$ B5818WS $V_R=40V$ B5819WS		1	mA
Forward voltage	V_F	B5817WS $I_F=1A$ $I_F=3A$ B5818WS $I_F=1A$ $I_F=3A$ B5819WS $I_F=1A$ $I_F=3A$		0.45 0.75 0.55 0.875 0.6 0.9	V
Diode capacitance	C_D	$V_R=4V, f=1MHz$		120	pF

Typical Characteristics

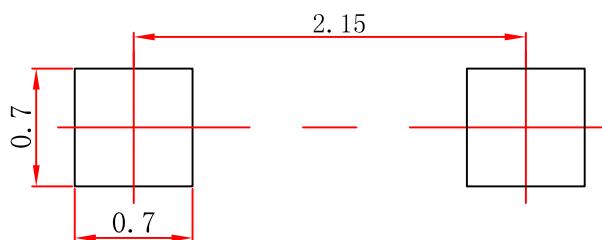


SOD323 Package Outline Dimensions



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:

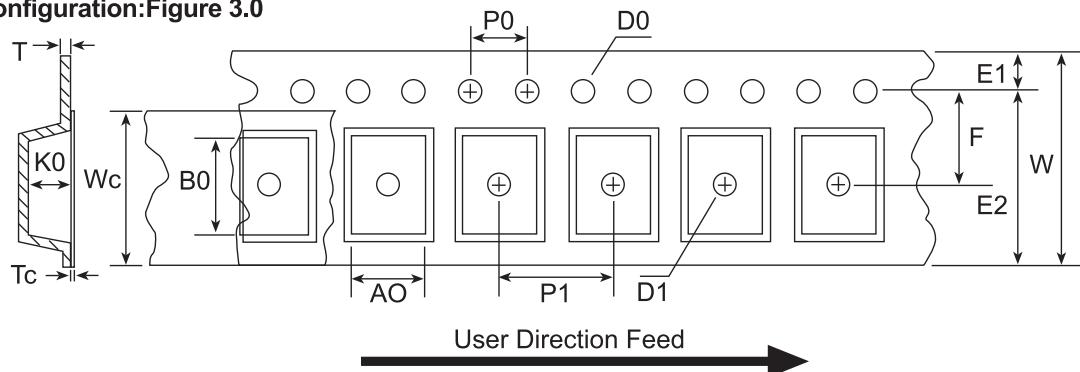
1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.

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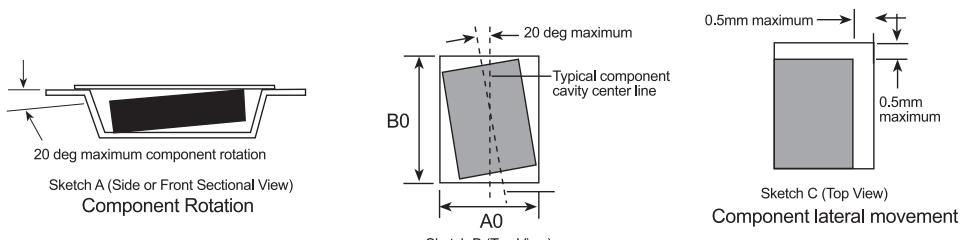
Reel Taping Specifications For Surface Mount Devices-SOD323

SOD323 Embossed Carrier Tape Configuration:Figure 3.0

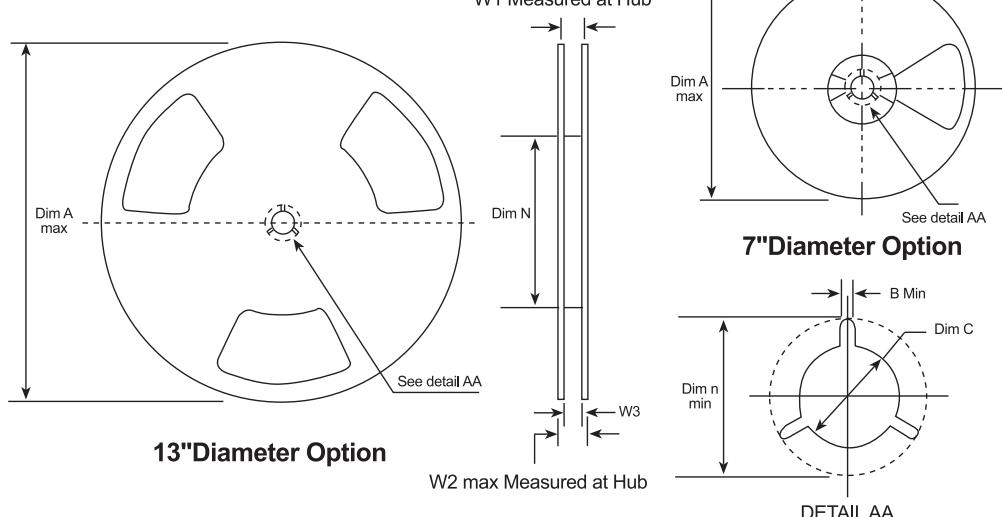


Dimensions are millimeter														
Pkg type	A0	B0	W	D0	D1	E1	E2	F	P1	P0	K0	T	Wc	Tc
SOD323 (8mm)	1.46 +/-0.10	2.9 +/-0.10	8.0 +/-0.3	1.50 +/-0.125	1.125 +/-0.125	1.75 +/-0.10	6.25 min	3.50 +/-0.05	4.0 +/-0.10	4.0 +/-0.10	1.25 +/-0.10	0.25 +/-0.020	5.2 +/-0.20	0.06 +/-0.02

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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