

BAS316WS Switching Diode

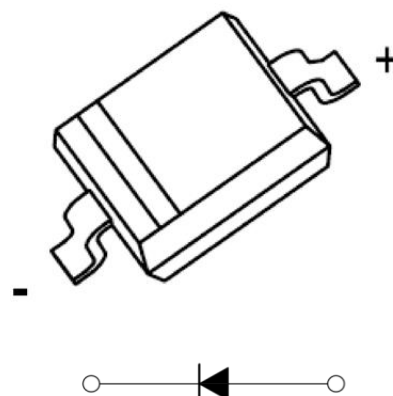
Feature

- Low Forward Voltage Drop
- Low Reverse Current
- High-speed Switching

MARKING:



SOD-323



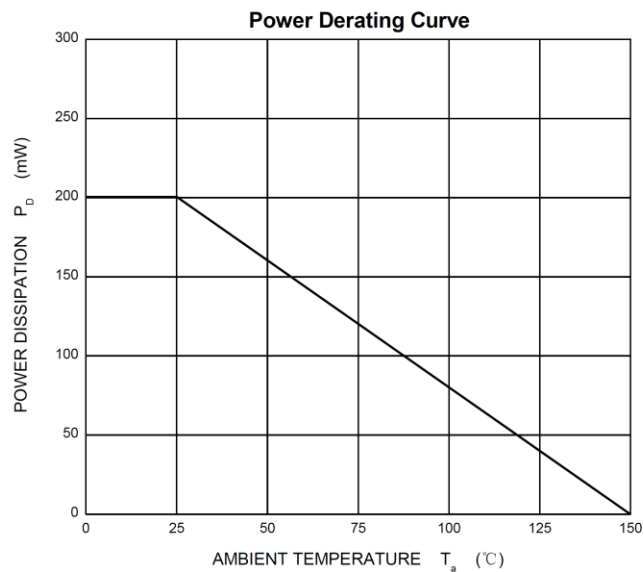
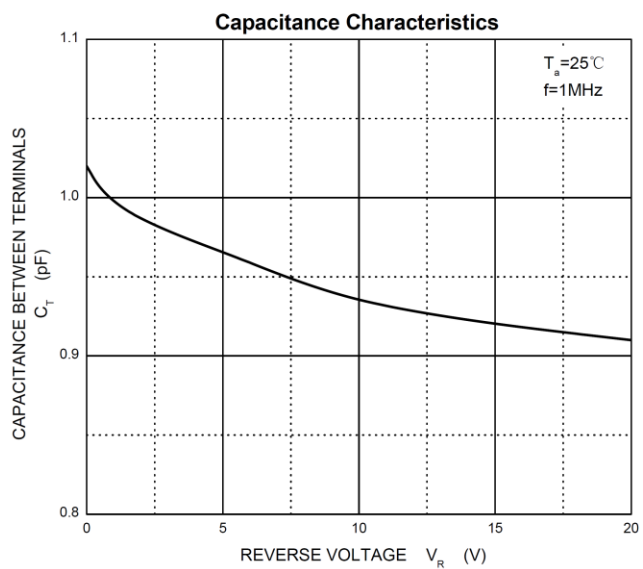
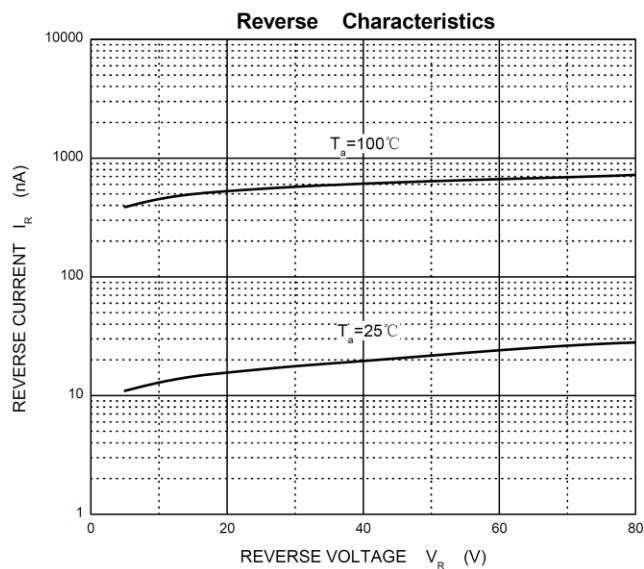
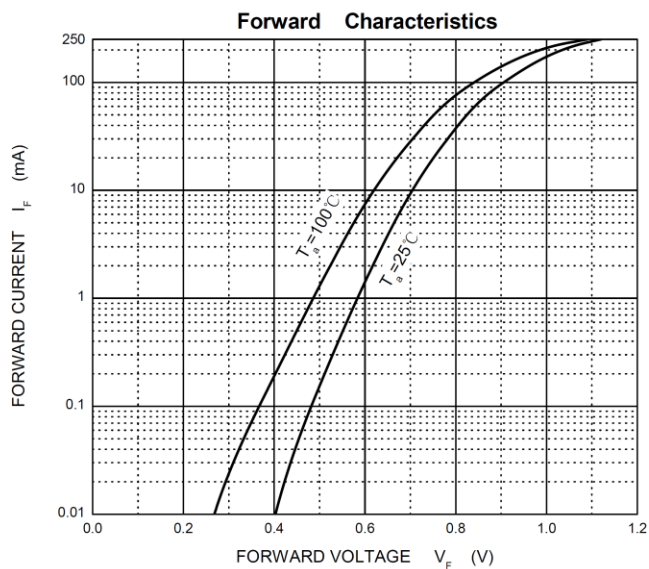
ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

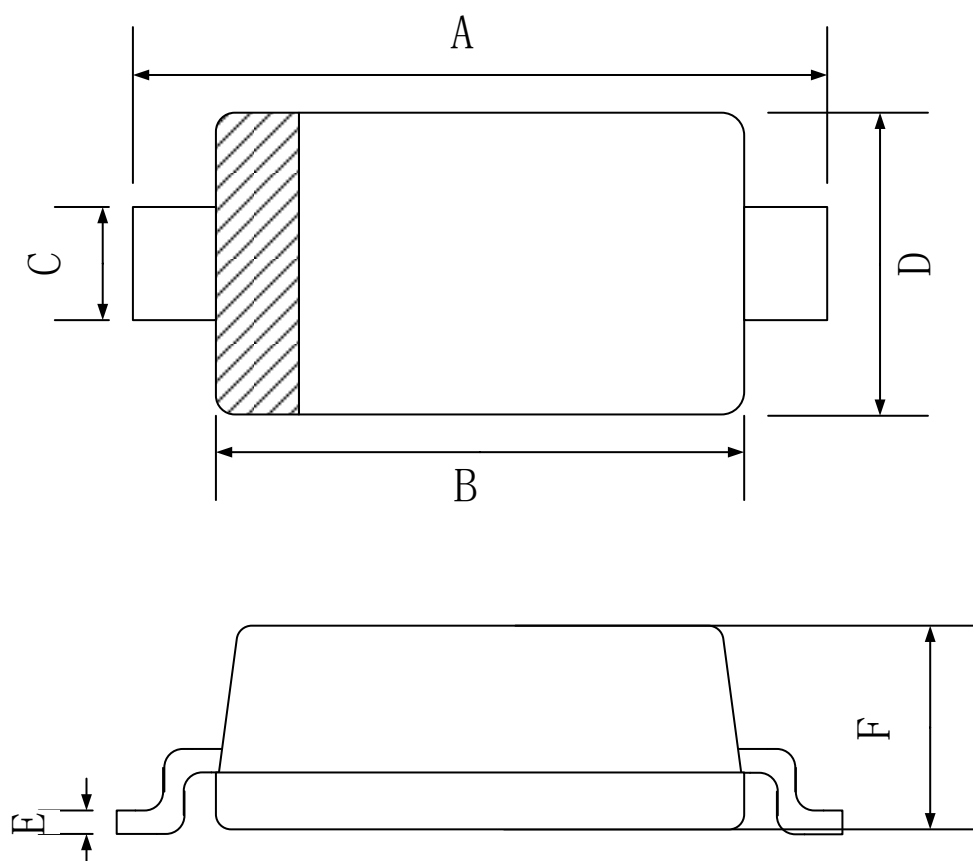
Parameter	Symbol	Value	Unit
Reverse voltage	V_R	100	V
Continuous Forward Current	I_F	0.25	A
Repetitive Peak Forward Current	I_{FRM}	0.50	A
Non-repetitive Peak Forward Surge Current @ $t=1\text{ms}$	I_{FSM}	1	A
Power Dissipation	P_D	0.2	W
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-65 ~ +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse current	I_R	$V_R = 25\text{V}$			30	nA
		$V_R = 25\text{V}, T_J = 150^{\circ}\text{C}$			30	μA
		$V_R = 75\text{V}$			1	μA
		$V_R = 75\text{V}, T_J = 150^{\circ}\text{C}$			50	μA
Forward voltage	V_F	$I_F = 1\text{mA}$			0.715	V
		$I_F = 10\text{mA}$			0.855	V
		$I_F = 50\text{mA}$			1	V
		$I_F = 150\text{mA}$			1.25	V
Diode capacitance	C_D	$V_R = 0\text{V}, f = 1\text{MHz}$			1.5	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10\text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100\ \Omega$			4	ns

Typical Characteristics

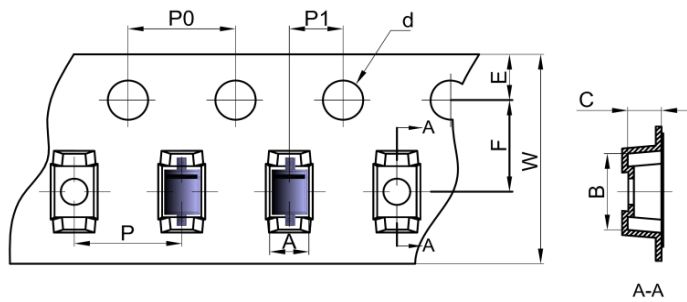


SOD-323 Package Outline Dimensions


Symbol	Dimensions In Millimeters		
	Min.	Typ.	Max.
A	2.30	2.50	2.70
B	1.60	1.70	1.90
C	0.25	0.325	0.40
D	1.15	1.25	1.35
E	0.089	0.095	0.101
F	0.80	0.90	1.00

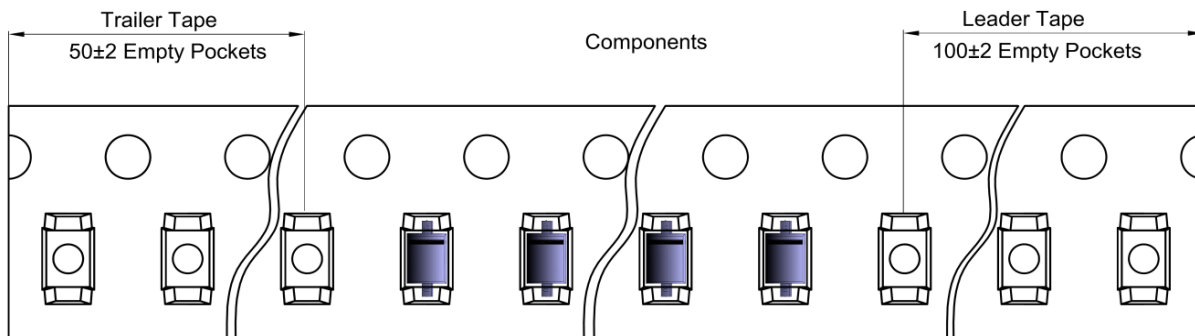
SOD-323 Package Outline Dimensions

SOD-323 Embossed Carrier Tape

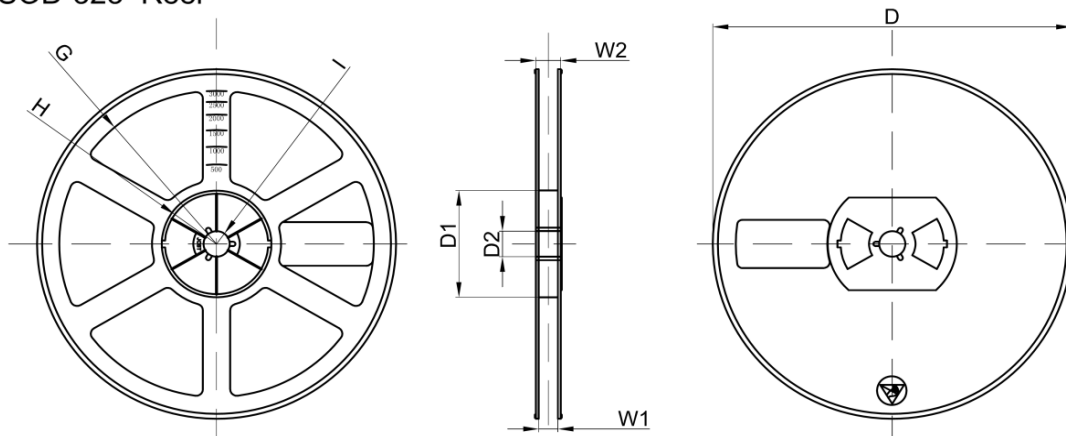


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-323	1.48	3.3	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOD-323 Tape Leader and Trailer



SOD-323 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7" Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	