

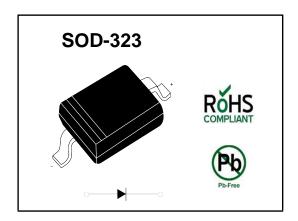
Silicon Epitaxial Planar Switching Diode Features

- · Fast switching speed
- Ultra-small surface mount package
- For general purpose switching applications

Marking Code: "D4"

PINNING

PIN	DESCRIPTION		
1	Cathode		
2	Anode		



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Repetitive Reverse Voltage	V_{RRM}	85	V
Average Rectified Forward Current	I _{F(AV)}	200	mA
Non-repetitive Peak Forward Surge Current Pulse Width = 1 s Pulse Width = 1 us	I _{FSM}	0.5 4	А
Power Dissipation	P _{tot}	250	mW
Thermal Resistance Junction to Ambient	R _{èJA}	833	°C/W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

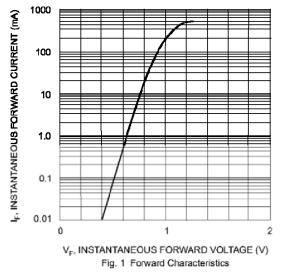
Electrical Characteristics (T_a = 25 °C)

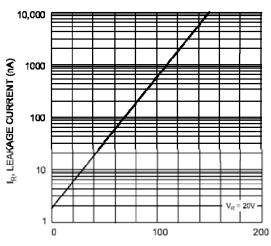
Parameter	Symbol	Min.	Max.	Unit
Breakdown Voltage at $I_R = 5 \mu A$ at $I_R = 100 \mu A$	V_R	75 100	-	V V
Forward Voltage at $I_F = 1 \text{mA}$ $I_F = 10 \text{ mA}$ $I_F = 50 \text{ mA}$ $I_F = 150 \text{ mA}$	V _F	-	0.9 1 1.1 1.25	V
Reverse Current at $V_R = 20 \text{ V}$ at $V_R = 75 \text{ V}$	I _R	- -	25 1	nΑ μΑ
Diode Capacitance at $V_R = 0 V$, $f = 1 MHz$	C _{tot}	-	4	pF
Reverse Recovery Time at I_{rr} = 0.1 X I_R , I_F = I_R = 10 mA, R_L = 100 Ω	t _{rr}	-	3	ns

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Typical Characteristics





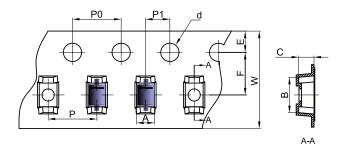
T_j, JUNCTION TEMPERATURE (°C)
Fig. 2 Leakage Current vs Junction Temperature

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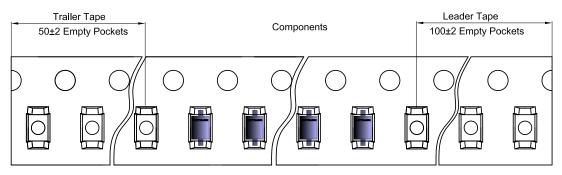
SOD-323 Tape and Reel

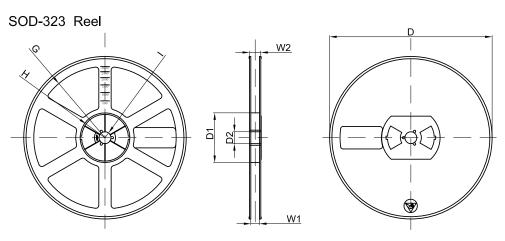
SOD-323 Embossed Carrier Tape



Dimensions are in millimeter										
Pkg type	Α	В	С	d	E	F	P0	Р	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





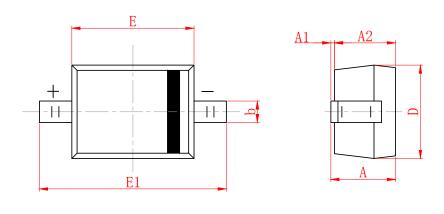
Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	Į.	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

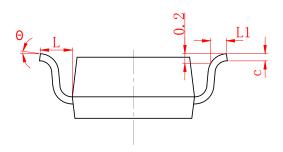
REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

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SOD-323 Package Outline Dimensions





	MILLIMETER				
SYMBOL	MIN	MAX			
A		1. 000			
A1	0.000	0. 100			
A2	0.800	0. 900			
b	0. 250	0. 350			
С	0.008	0. 150			
D	1. 200	1. 400			
Е	1.600	1.800			
E1	2. 500	2. 700			
L	0. 475 (REF)				
L1	0. 250	0. 400			
θ	0°	8°			

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