

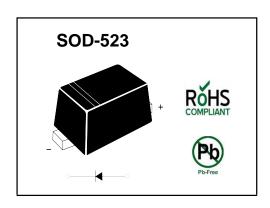
Silicon Epitaxial Planar Switching Diode

PIN	DESCRIPTION
1	Cathode
2	Anode

PINNING

Features

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



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Repetitive Reverse Voltage	V_{RRM}	100	V
Average Rectified Forward Current	I _{F(AV)}	200	mA
Non-repetitive Peak Forward Surge Current Pulse Width = 1 s Pulse Width = 1 is	I _{FSM}	0.5 1	А
Power Dissipation	P _{tot}	150	mW
Thermal Resistance Junction to Ambient	R _{èJA}	833	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

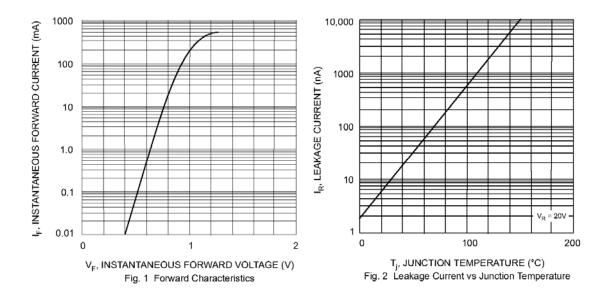
Electrical Characteristics (T_a = 25 °C)

Parameter	Symbol	Min.	Max.	Unit
Breakdown Voltage at I_R = 5 μ A at I_R = 100 μ A	V _R	75 100		V V
Forward Voltage at I _F = 10 mA	V _F	-	1	V
Reverse Current at $V_R = 20 \text{ V}$ at $V_R = 75 \text{ V}$	I _R	- -	25 5	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_{Rr} , I_{Fr} = I_{Rr} = 10 mA, R_{Lr} = 100 Ω	t _{rr}	-	4	ns

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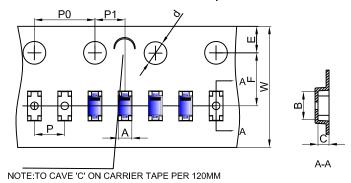
Typical Characteristics



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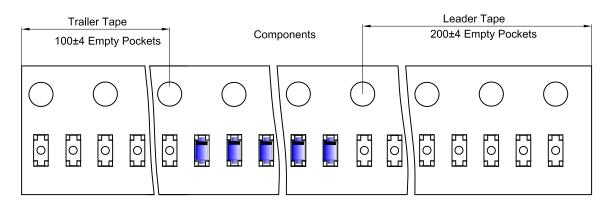


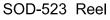
SOD-523 Embossed Carrier Tape

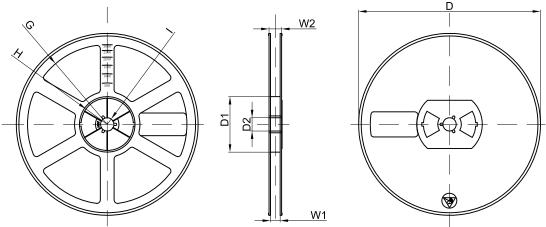


Dimensions are in millimeter										
Pkg type	Α	В	С	d	Е	F	P0	Р	P1	W
SOD-523	0.9	1.94	0.73	Ø1.50	1.75	3.50	4.00	2.00	2.00	8.00

SOD-523 Tape Leader and Trailer







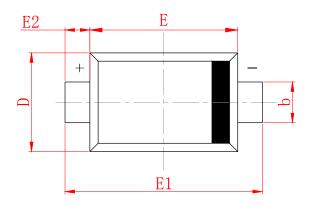
Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	I	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

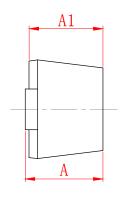
REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
8000 pcs	7 inch	120,000 pcs	203×203×195	480,000 pcs	438×438×220	

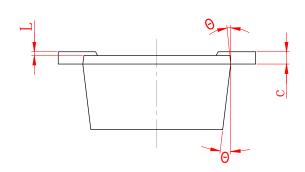
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SOD-523 Package Outline Dimensions







	MILLIMETER				
SYMBOL	MIN	MAX			
A	0. 530	0. 730			
A1	0. 500	0.700			
b	0. 280	0. 380			
С	0. 080	0. 150			
D	0. 750	0.850			
Е	1. 100	1. 300			
E1	1. 500	1. 700			
E2	0. 200 REF				
L	0. 010	0. 070			
θ	7° REF				

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