

SILICON EPITAXIAL PLANAR DIODE

PIN	DESCRIPTION
1	Cathode
2	Anode

PINNING

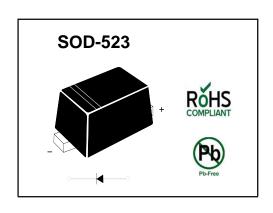
Band Swithing Diode Features

- Extremely small surface mounting type
- · High reliability

Applications

• High frequency switching

Marking Code: "K"



Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Reverse Voltage	V _R	35	V
Forward Current	I _F	100	mA
Junction Temperature	TJ	125	°C
Storage Temperature Range	T _{stg}	- 55 to + 125	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 10 \text{ mA}$	V _F	1	V
Reverse Current at V _R = 25 V	I _R	10	nA
Capacitance Between Terminals at $V_R = 6 \text{ V}$, $f = 1 \text{ MHz}$	C _T	1.2	pF
Forward Operating Resistance at I _F = 2 mA, f = 100 MHz	r _f	0.9	Ω

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Typical Characteristics

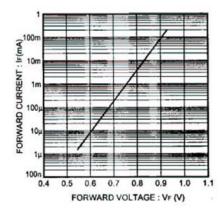


Fig. 1 Forward characteristics

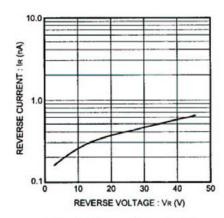


Fig. 2 Reverse characteristics

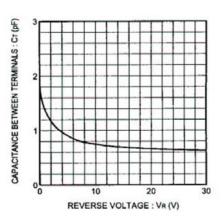


Fig. 3 Capacitance between terminals characteristics

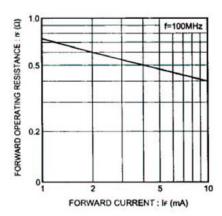
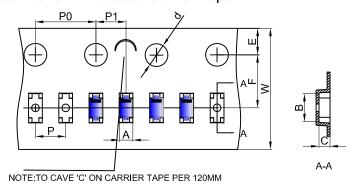


Fig. 4 Forward operating resistance characteristics

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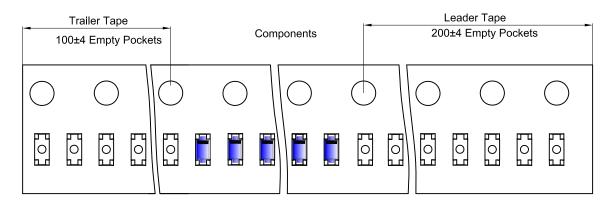


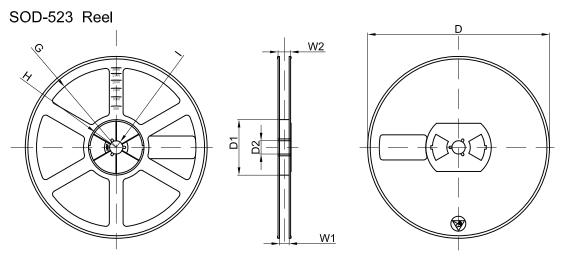
SOD-523 Embossed Carrier Tape



				Dimensions a	are in millime	ter				
Pkg type	Α	В	С	d	E	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





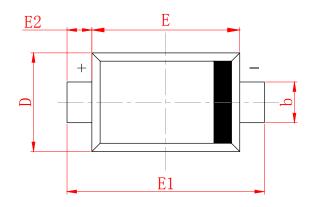
Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	I	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

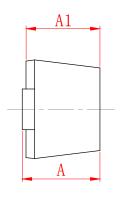
REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
8000 pcs	7 inch	120,000 pcs	203×203×195	480,000 pcs	438×438×220	

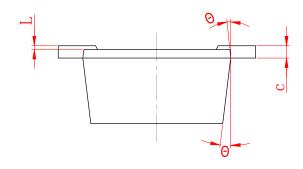
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SOD-523 Package Outline Dimensions







	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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