

Silicon Epitaxial Planar Switching

Features

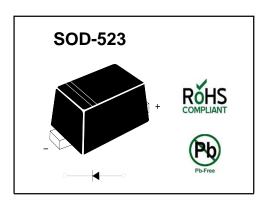
- Small plastic package suitable for surface mounted design
- High reliability with high surge current handling capability

Applications

· High speed switching

PINNING

PIN	DESCRIPTION		
1	Cathode		
2	Anode		



Absolute Maximum Ratings (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V _{RM}	90	V
Reverse Voltage	V _R	80	V
Average Rectified Forward Current	I _{F(AV)}	100	mA
Peak Forward Current	I _{FM}	225	mA
Surge Forward Current (1 s)	I _{FSM}	500	mA
Junction Temperature	Tj	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

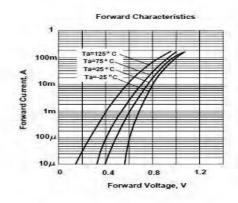
Electrical Characteristics (T_a = 25 °C)

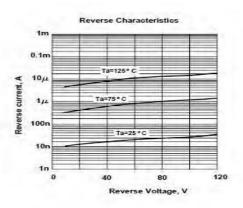
Parameter	Symbol	Max.	Unit
Forward Voltage at I _F = 100 mA	V _F	1.2	V
Reverse Current at V _R = 80 V	I _R	0.1	μΑ
Capacitance between Terminals at $V_R = 0.5 \text{ V}$, $f = 1 \text{ MHz}$	Ст	3	pF
Reverse Recovery Time at V_R = 6 V, I_F = 10 mA, R_L = 100 Ω	t _{rr}	4	ns

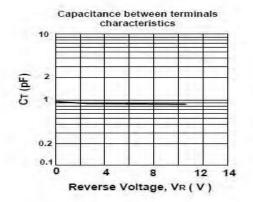
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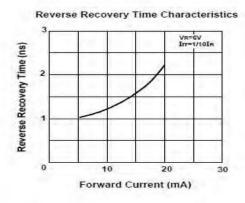


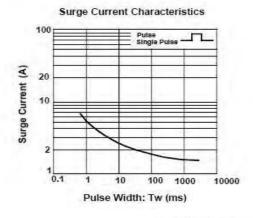
Typical Characteristics

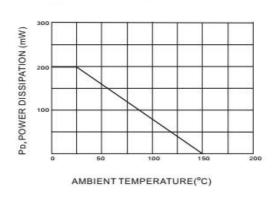




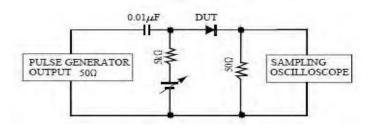








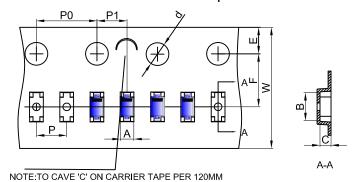
Reverse Recovery Time Measurement Circuit



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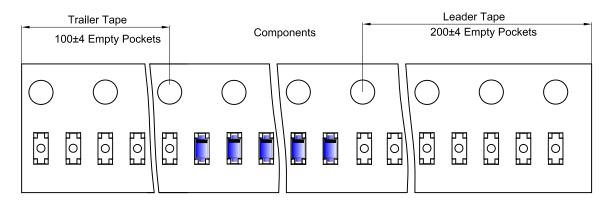


SOD-523 Embossed Carrier Tape

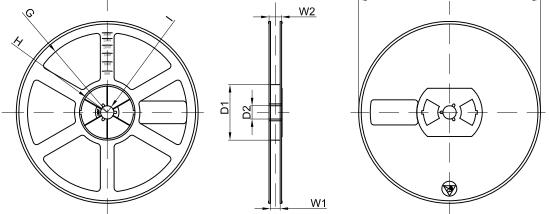


				Dimensions a	are in millime	ter				
Pkg type	Α	В	С	d	Е	F	P0	Р	P1	W
SOD-523	0.9	1.94	0.73	Ø1.50	1.75	3.50	4.00	2.00	2.00	8.00

SOD-523 Tape Leader and Trailer







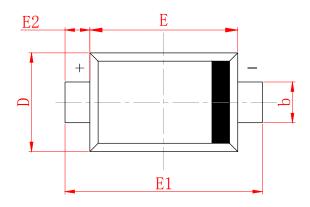
Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	I	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

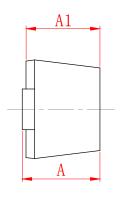
REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
8000 pcs	7 inch	120,000 pcs	203×203×195	480,000 pcs	438×438×220	

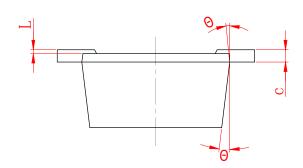
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SOD-523 Package Outline Dimensions







	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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