

# **Plastic-Encap sulate Diodes**

Schottky Barrier Diode

#### **FEATURES**

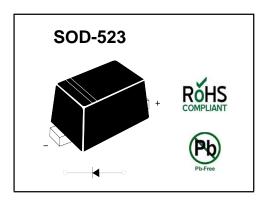
- Small surface mounting type
- Low I<sub>R</sub>
- High reliability

**MARKING: D1** 



#### **PINNING**

PIN	DESCRIPTION	
1	Cathode	
2	Anode	



# Maximum Ratings and Electrical Characteristics, Single Diode @T<sub>A</sub>=25℃

Parameter	Symbol	Limit	Unit
DC reverse voltage	V <sub>R</sub>	40	V
Mean rectifying current	lo	0.2	А
Non-repetitive peak forward surge current@t=8.3ms	I <sub>FSM</sub>	1	А
Power Dissipation	P <sub>D</sub>	150	mW
Thermal resistance from junction to ambient	$R_{ heta JA}$	667	°C/W
Junction temperature	TJ	125	•
Storage temperature	T <sub>STG</sub>	-55~+150	℃

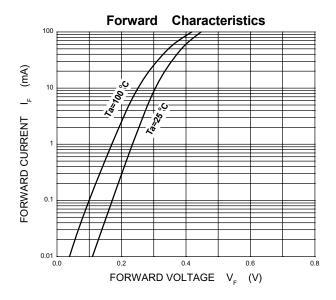
# Electrical Ratings @T<sub>A</sub>=25℃

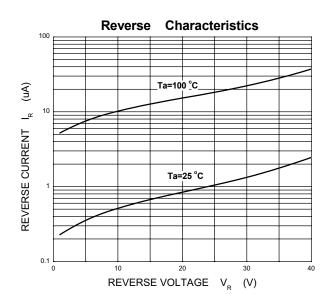
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Forward voltage	V <sub>F</sub>		0.304 0.446	0.39 0.55	V	I=10mA I=100mA
Reverse current	I <sub>R</sub>		0.605 2.837	1 10	μA	V <sub>R</sub> =10V V <sub>R</sub> =40V

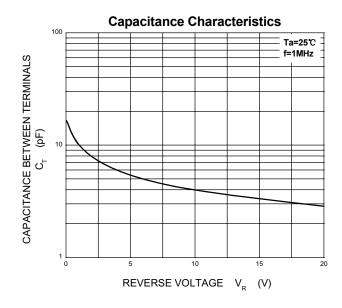
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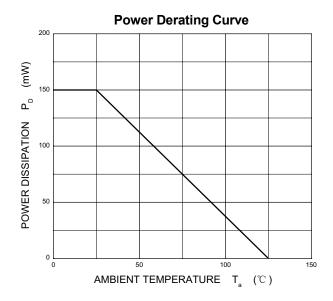


#### **Typical Characteristics**





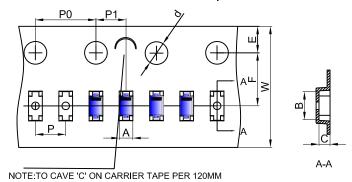




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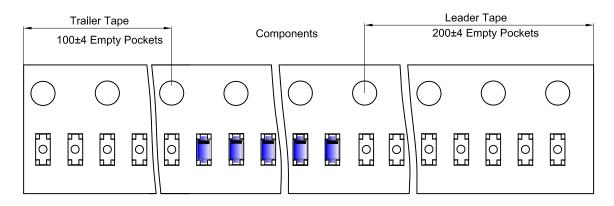


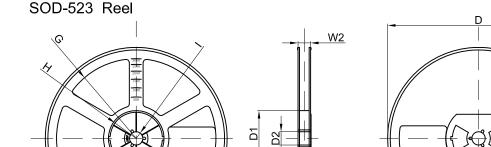
## SOD-523 Embossed Carrier Tape



Dimensions are in millimeter										
Pkg type	Α	В	С	d	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







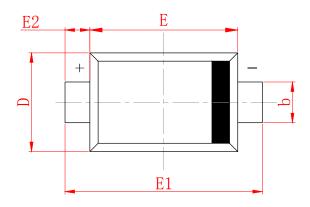
W1

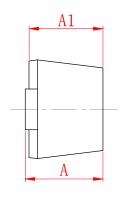
REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
8000 pcs	7 inch	120,000 pcs	203×203×195	480,000 pcs	438×438×220	

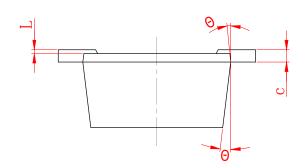
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## **SOD-523 Package Outline Dimensions**







	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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