

SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER DIODE

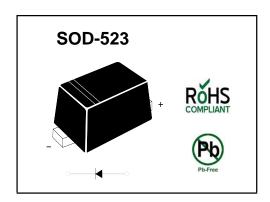
for rectifying small power applications

Features

- · Ultra small mold type
- · Low forward voltage
- High reliability

PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



Absolute Maximum Ratings ($T_a = 25$ °C)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RM}	45	V
Reverse Voltage	V_R	40	V
Mean Rectifying Current	Io	200	mA
Peak Forward Surge Current (60Hz for Cyc.)	I _{FSM}	1	Α
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

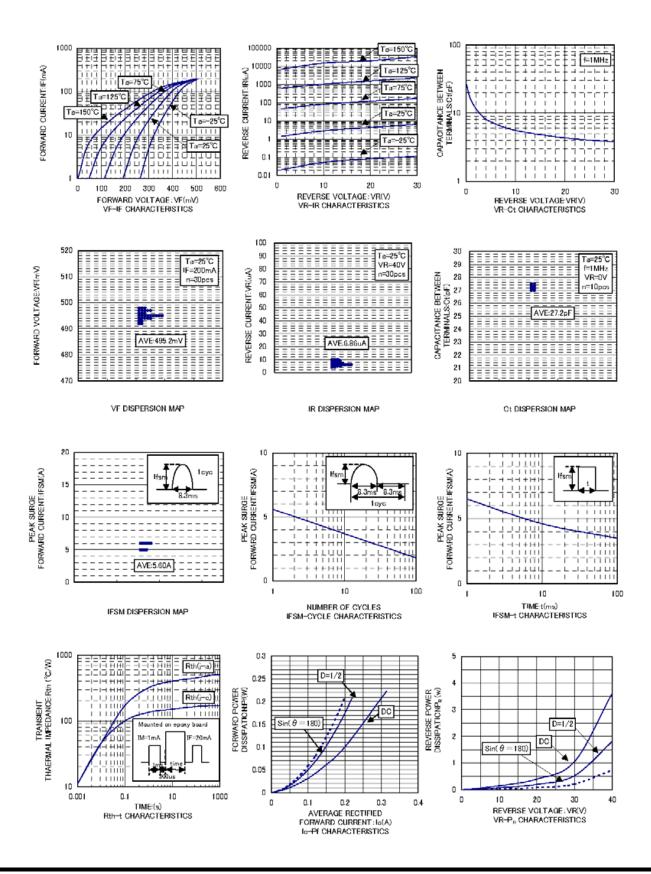
Characteristics at $T_a = 25$ °C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 10 \text{ mA}$ at $I_F = 100 \text{ mA}$ at $I_F = 200 \text{ mA}$	V _F	0.16 0.31 0.41	0.3 0.45 0.54	>
Reverse Current at $V_R = 10 \text{ V}$ at $V_R = 40 \text{ V}$	I _R	- -	20 90	μА

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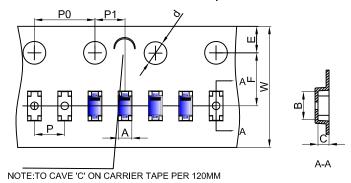
Typical Characteristics



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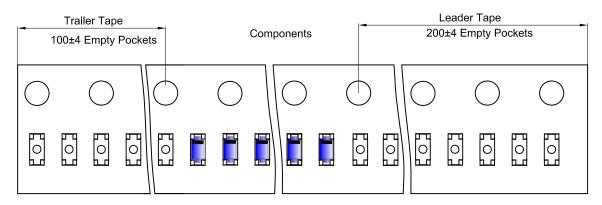


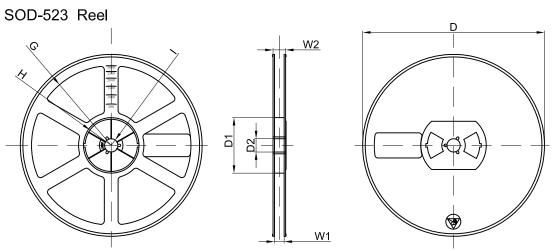
SOD-523 Embossed Carrier Tape



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





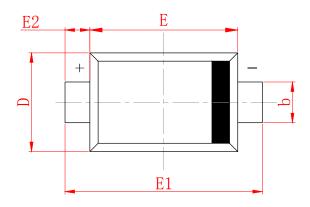
Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	I	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

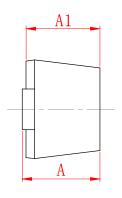
REEL	Reel Size	Вох	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
8000 pcs	7 inch	120,000 pcs	203×203×195	480,000 pcs	438×438×220	

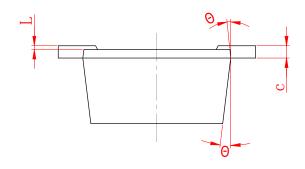
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SOD-523 Package Outline Dimensions







	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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