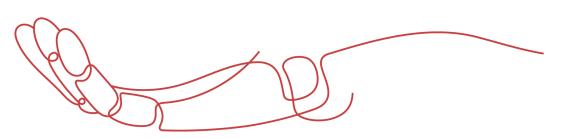




PRODUCT DATA SHEET



To learn more about JGSEMI, please visit our website at







Datasheet

urces Samples

Please note: Please check the JINGAO Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.jg-semi.cn. Please email any questions regarding the system integration to JINGAO_questions@jgsemi.com.

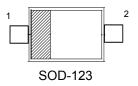


SD101AW/BW/CW

Surface Mount Schottky Barrier Diodes

Features

- · Low forward voltage
- Low reverse capacitance





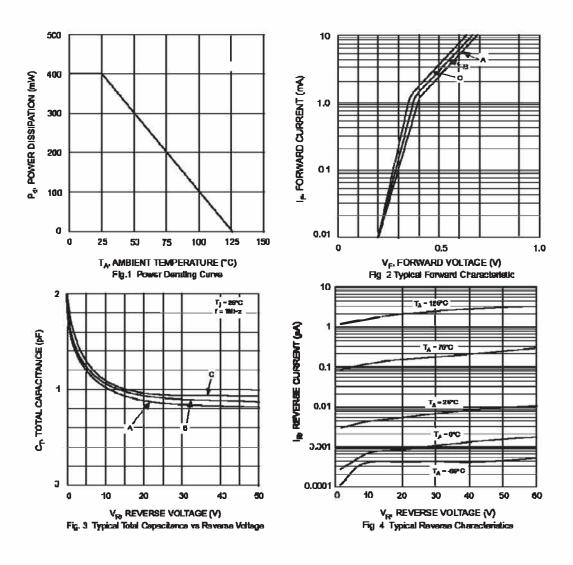
Absolute Maximum Ratings (Ta = 25 °C)

Parameter		Symbol	Value	Unit	
Peak Repetitive Reverse Voltage	SD101AW SD101BW SD101CW	V_{RRM}	60 50 40	V	
Reverse Voltage	SD101AW SD101BW SD101CW	V_{R}	60 50 40	V	
Forward Continuous Current		I _{FM}	15	mA	
Power Dissipation		P _d	400	mW	
Non-Repetitive Peak Forward Surge Current	at t = 1 s at t = 10 µs	I _{FSM}	50 2	mA A	
Operating and Storage Temperature Range		T_{j},T_{stg}	- 65 to + 125	°C	

Characteristics at Ta = 25 °C

Parameter		Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 10 μA	SD101AW SD101BW SD101CW	V _{(BR)R}	60 50 40	- - -	V
Forward Voltage at I _F = 1 mA at I _F = 15 mA	SD101AW SD101BW SD101CW SD101AW SD101BW SD101CW	V _F	-	0.41 0.4 0.39 1 0.95 0.9	V
Reverse Current at V_R = 50 V at V_R = 40 V at V_R = 30 V	SD101AW SD101BW SD101CW	I _R		200 200 200	nA
Total Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	SD101AW SD101BW SD101CW	Ст	- - -	2 2.1 2.2	pF
Reverse Recovery Time at $I_F = I_R = 5$ mA , $I_{rr} = 0.1$ X I_{R_r} $R_L = 100$ Ω		t _{rr}	-	1	ns



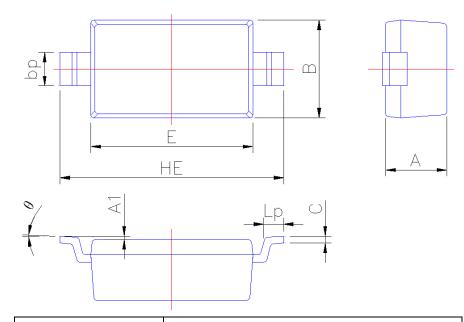




PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



Symbol	Dimension in Millimeters			
	Min	Max		
А	0.95	1.15		
A1	0.01	0.100		
В	1.55	1.65		
bp	0.50	0.70		
С	0.09	0.150		
E	2.60	2.70		
HE	3.45	3.85		
Lp	0.20	0.45		
θ	0°	5°		



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