

### Schottky Barrier Diode

Pinning					
1.Cathode 2.Anode					
1	2	- <del>]4</del>			
		SOD-323			

Marking Code				
SD101AWS	S1			
SD101BWS	S2			
SD101CWS	S3			

### Features

- Low Forward Voltage Drop.
- Guard Ring Construction For Transient Protection.
- Negligible Reverse Recovery Time.
- Low Reverse Capacitance.

### **Applications**

• Schotty barrier switching.

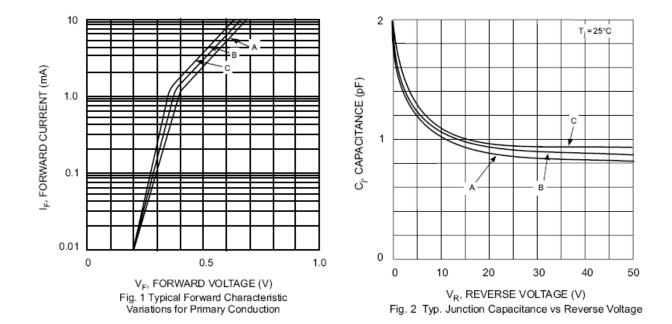
### Maximum Rating @ Ta=25°C unless otherwise specified

Parameter	Symbol	SD101AWS	SD101BWS	SD101CWS	Unit
Peak Repetitive reverse voltage Working Peak reverse voltage DC Reverse Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	60	50	40	v
RMS Reverse Voltage	V <sub>R(RMS)</sub>	42	35	28	V
Forward Continuous Current	I <sub>F</sub>	15			mA
Repetitive Peak Forward Current @t<1.0s @t=10µs	I <sub>FRM</sub>	50			mA
@t=10µ3		2.0			A
Power Dissipation P <sub>d</sub> 200			mW		
Thermal Resistance Junction to Ambient	$R_{ heta j A}$	625			°C/W
Storage temperature	T <sub>stg</sub>	-65 to+125			°C



Parameter		Symbol	Min.	Тур.	Max.	Unit	Conditions
Reverse Breakdown Voltage	SD101AWS		60				I <sub>R</sub> =10μΑ
	SD101BWS	V( <sub>BR)R</sub>	50			V	Ι <sub>R</sub> =10μΑ
	SD101CWS		40				Ι <sub>R</sub> =10μΑ
Forward voltage	SD101AWS				0.41		I <sub>F</sub> =1.0mA
	SD101BWS				0.40		I <sub>F</sub> =1.0mA
	SD101CWS	V <sub>F</sub>			0.39	v	I <sub>F</sub> =1.0mA
	SD101AWS				1.00		I <sub>F</sub> =15mA
	SD101BWS				0.95		I <sub>F</sub> =15mA
	SD101CWS				0.90		I <sub>F</sub> =15mA
Reverse current	SD101AWS						V <sub>R</sub> =50V
	SD101BWS	I <sub>RM</sub>			0.2	μA	V <sub>R</sub> =40V
	SD101CWS						V <sub>R</sub> =30V
Capacitance between terminals SD101AWS					2.0		
SD101BWS		CT			2.1	рF	V <sub>R</sub> =0,f=1MHz
	SD101CWS				2.2		
Reverse Recovery Time		t <sub>rr</sub>			1.0	ns	I <sub>R</sub> =I <sub>F</sub> =5mA
							I <sub>rr</sub> =0.1*I <sub>R</sub> ,R <sub>L</sub> =100Ω

#### Electrical Characteristics @ Ta=25°C unless otherwise specified





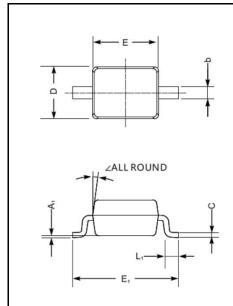
# SD101AWS/SD101BWS/SD101CWS SOD-323

## **Ordering information**

Package Packing Description		Packing Quantity		
SOD-323	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton		

### **Package Dimensions**

SOD-323

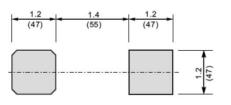


-	A-
	ЦЦ

Dim.		Millimet	ter(mm)	mil		
	11.	Min. Max.		Min.	Max.	
A		0.8	1.1	32	43	
С		0.08	0.15	3.1	5.9	
D		1.2	1.4	47	55	
E		1.4	1.8	63	70	
E		2.55	2.75	100	108	
b		0.25	0.4	9.8	16	
L1		0.2	0.45	7.9	16	
A		-	0.2	-	8	
۷		9°				

Т

## The recommended mounting pad size



Unit: mm (mil)



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