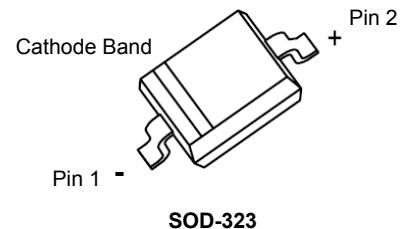


## Features

- Low forward voltage drop
- Guard ring construction for transient protection
- Negligible reverse recovery time
- Low reverse capacitance



Schematic Diagram



## Absolute Maximum Ratings

(T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	60	V
Working Peak Reverse Voltage	V <sub>RWM</sub>		
DC Blocking Voltage	V <sub>R</sub>		
RMS reverse Voltage	V <sub>R(RMS)</sub>	42	V
Forward Continuous Current	I <sub>FM</sub>	15	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	2	A
Power Dissipation	P <sub>D</sub>	200	mW
Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	500	°C/W
Junction Temperature	T <sub>j</sub>	125	°C
Storage Temperature	T <sub>STG</sub>	-50 to +150	°C

## Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

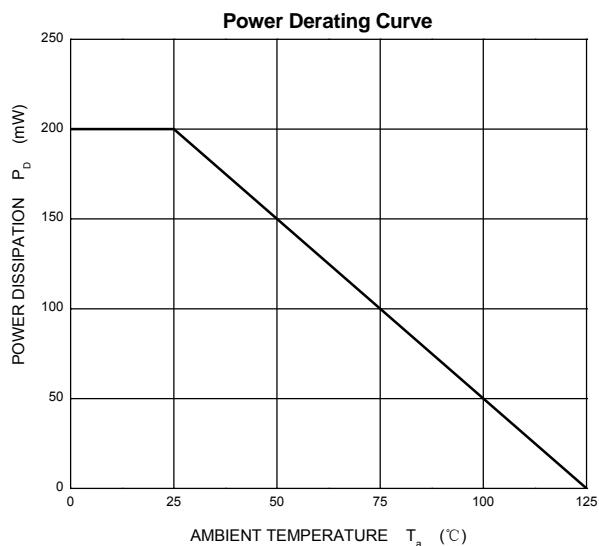
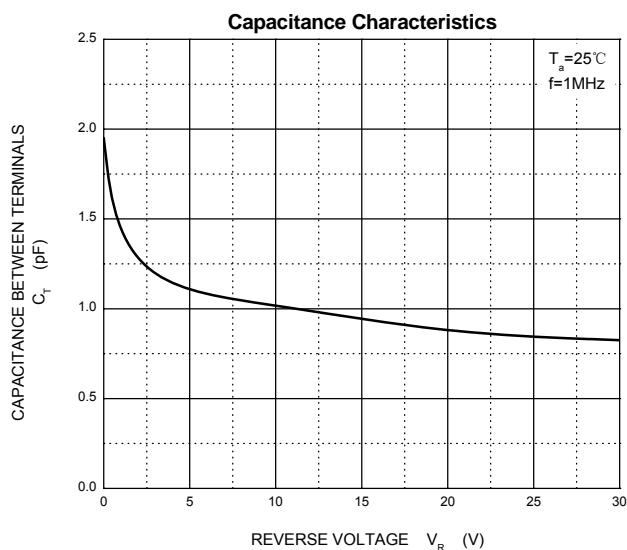
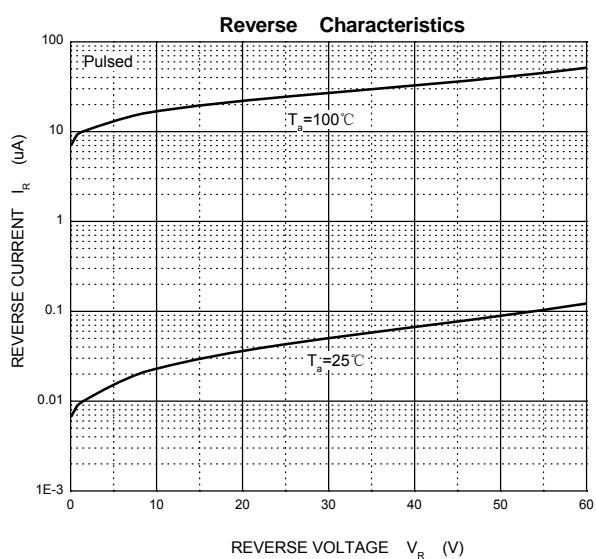
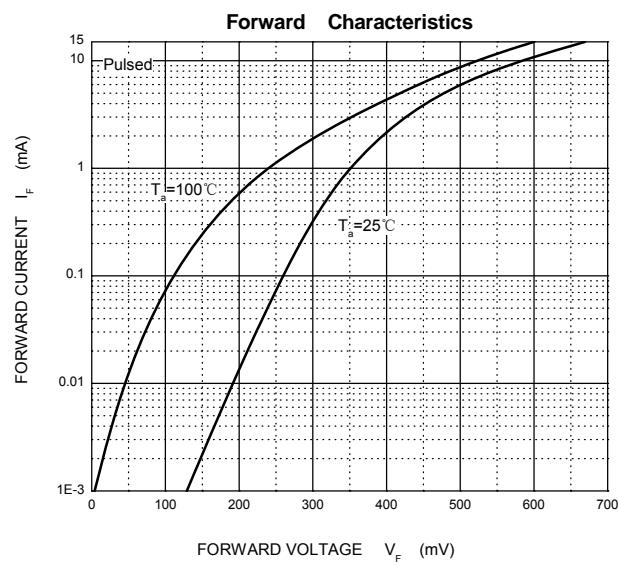
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse Voltage	V <sub>(BR)</sub>	I <sub>R</sub> =10µA	60	-	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =50V	-	0.2	µA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =1mA	-	0.41	V
		I <sub>F</sub> =15mA	-	1	
Total Capacitance	C <sub>tot</sub>	V <sub>R</sub> =0V,f=1MHz	-	2	pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =5mA, I <sub>rr</sub> =0.1×I <sub>R</sub> , R <sub>L</sub> =100Ω	-	1	ns



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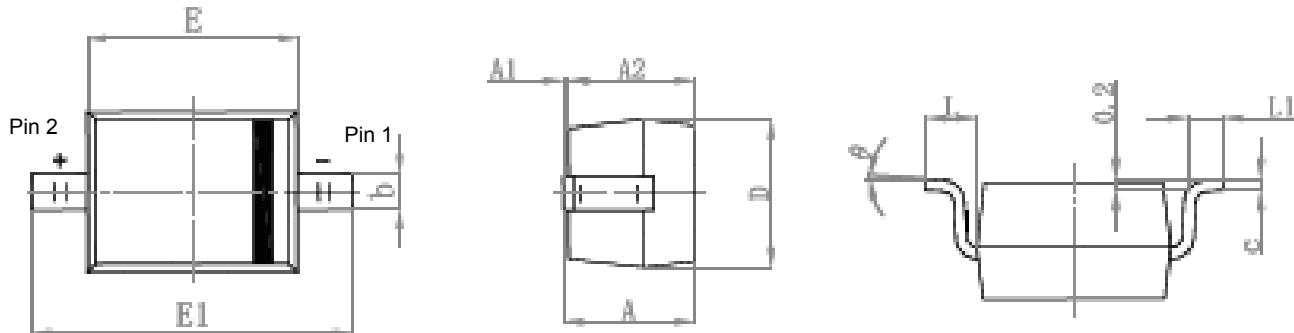
**SPD101AWS**  
**Schottky Diode**

## Typical Characteristic Curves





## Package Outline Dimensions SOD-323



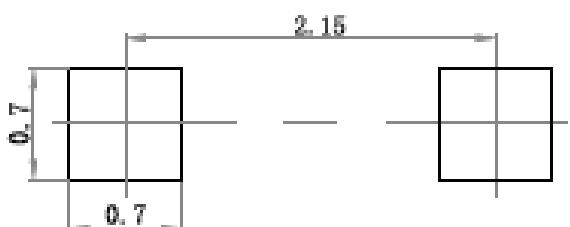
Pin 1= Cathode

Pin 2 = Anode

Marking bar indicates the cathode.

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L	0.475 REF.		0.019 REF.	
L1	0.250	0.400	0.010	0.016
$\theta$	0°	8°	0°	8°

## Suggested Pad Layout



## Note:

1. Controlling dimension:in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$ .
3. The pad layout is for reference purposes only.