PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

Top View

Simplified outline SOD-323 and symbol
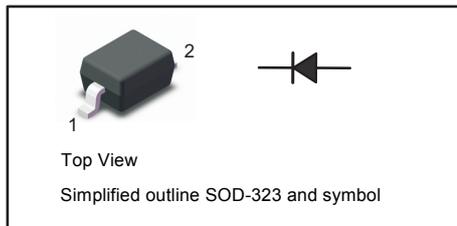
Features

◆ Low Forward Voltage drop

◆ Surface mount device

Description

◆ High voltage schottky rectifier suited for SLIC

◆ protection during the card insertion operation

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Continuous Forward Current	I_F	150	mA
Power Dissipation	P_{tot}	200	mW
Thermal Resistance Junction Ambient	R_{thJA}	500	°C/W
Operating Junction Temperature Range	T_J	125	°C
Storage Temperature Range	T_{stg}	- 65 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at I_R = 100 μA	V_{BR}	100	-	-	V
Forward Voltage at I_F = 0.1 mA at I_F = 10 mA at I_F = 250 mA	V_F	- - -	- - -	0.25 0.45 1	V
Reverse Current at V_R = 1.5 V at V_R = 10 V at V_R = 50 V at V_R = 75 V at V_R = 1.5 V, T_j = 60 °C at V_R = 10 V, T_j = 60 °C at V_R = 50 V, T_j = 60 °C at V_R = 75 V, T_j = 60 °C	I_R	- - - - - - - -	- - - - - - - -	0.5 0.8 2 5 5 7.5 15 20	μA
Total Capacitance at V_R = 0 V, f = 1 MHz at V_R = 1 V, f = 1 MHz	C_T	- -	10 6	- -	pF

Typical Characteristics
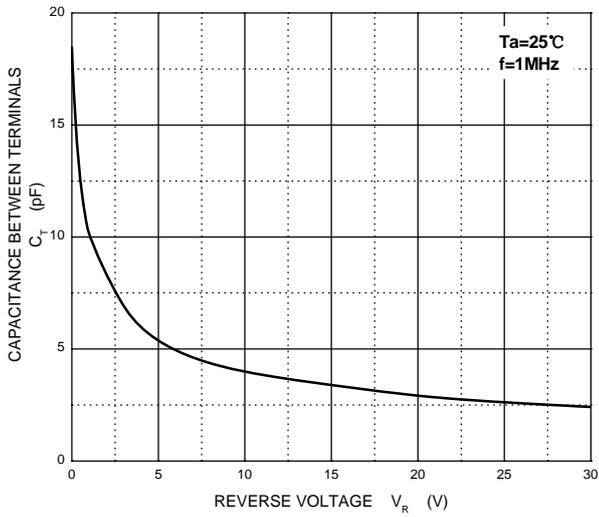
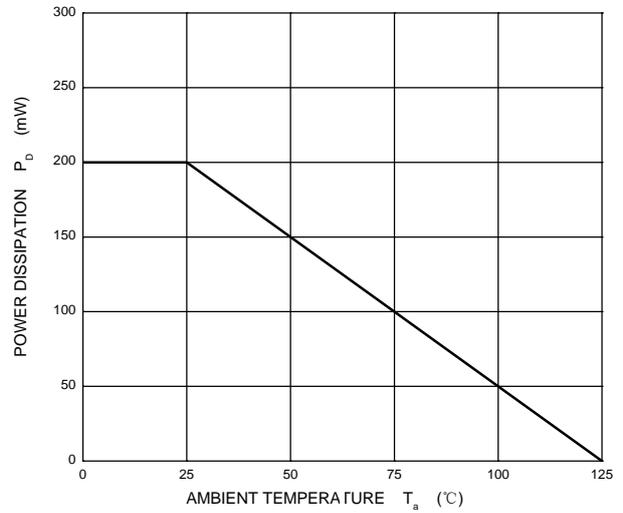### Forward   Characteristics
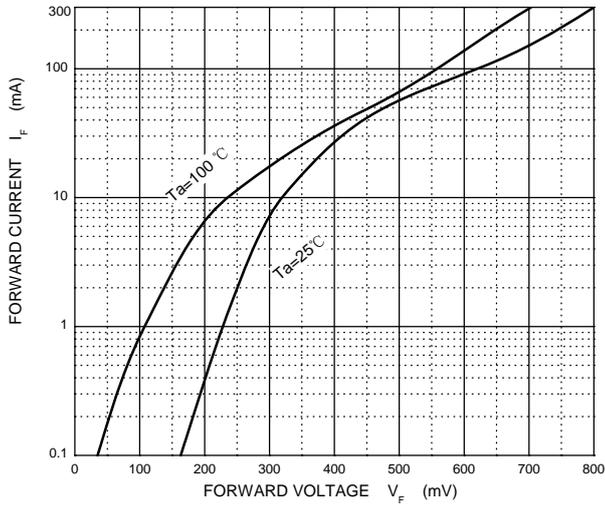
Reverse   Characteristics
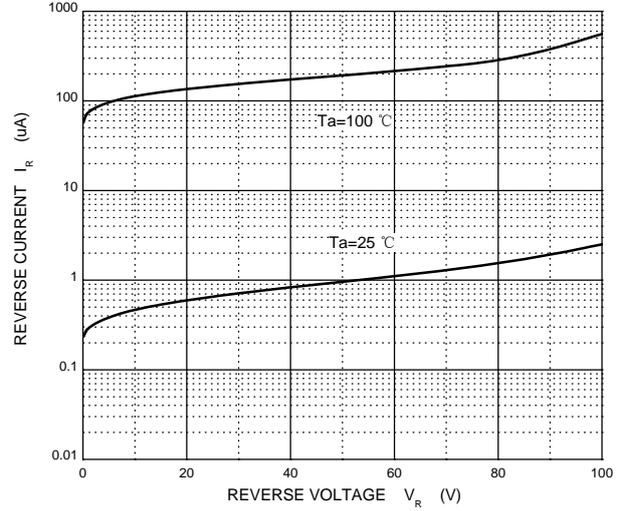
Capacitance Characteristics

Power Derating Curve

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323

SOD-323 mechanical data

UNIT		A	C	D	E	E₁	b	L₁	A₁	∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	63	100	9.8	7.9	—	
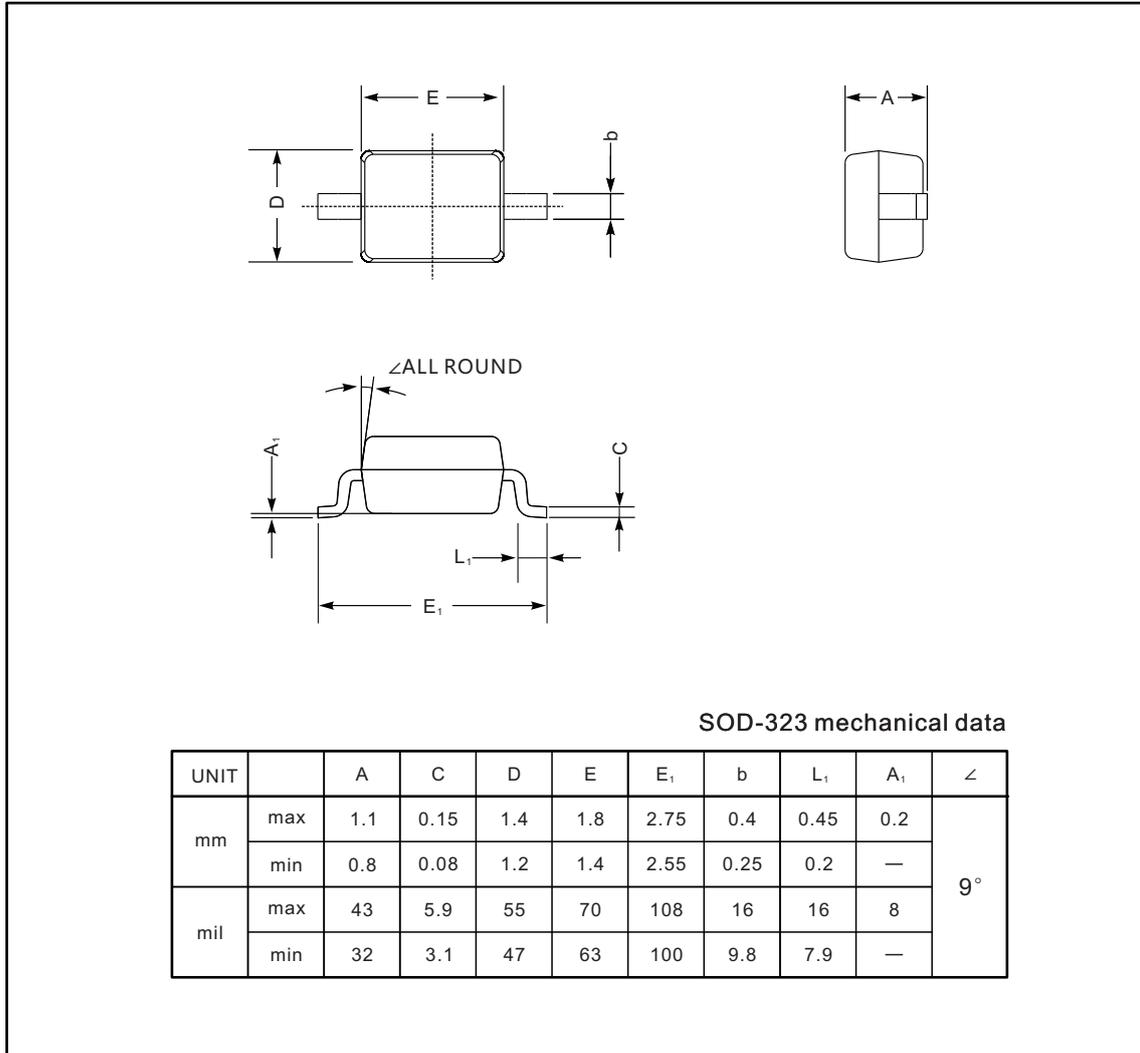
The recommended mounting pad size

$\frac{1.2}{(47)}$ $\frac{1.4}{(55)}$ $\frac{1.2}{(47)}$

$\frac{1.2}{(47)}$

Unit: $\frac{mm}{(mil)}$
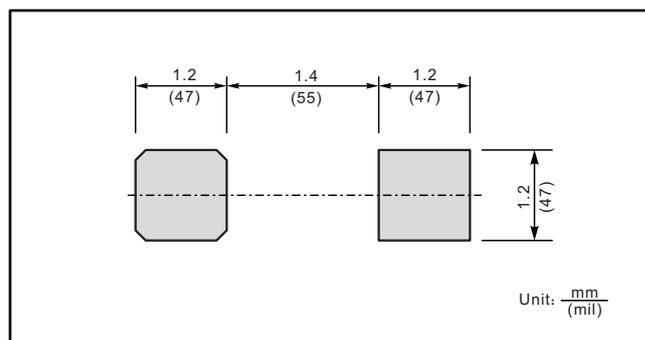
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