PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

Top View

Simplified outline SOD-323 and symbol

Features

◆ Low forward voltage

◆ Fast switching

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
DC Blocking Voltage	V_R	40	V
Forward Continuous Current	I_F	200	mA
Peak Forward Surge Current (at tp = 8.3 ms)	I_{FSM}	600	mA
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{Stg}	- 55 to + 150	°C

Characteristics at T_a = 25 °C

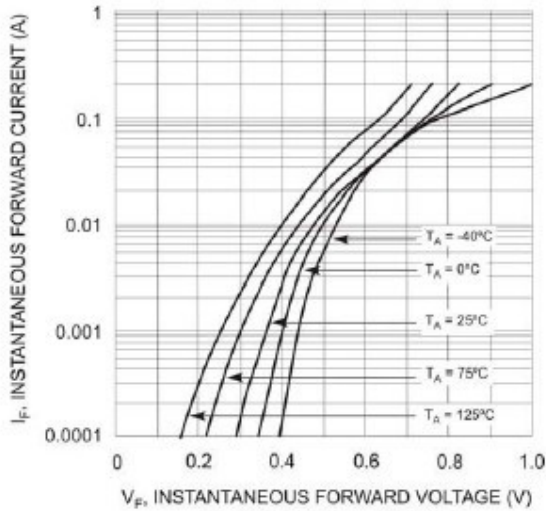| Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I_F = 1 mA at I_F = 40 mA	V_F V_F	- -	0.38 1	V V
Reverse Current at V_R = 30 V	I_R	-	200	nA
Reverse Breakdown Voltage at I_R = 10 µA	$V_{(BR)R}$	40	-	V
Reverse Recovery Time at I_F = I_R = 10 mA to I_R = 1 mA, R_L = 100 Ω	t_{rr}	-	5	ns
Capacitance at V_R = 0 V, f = 1 MHz	C_j	-	5	pF

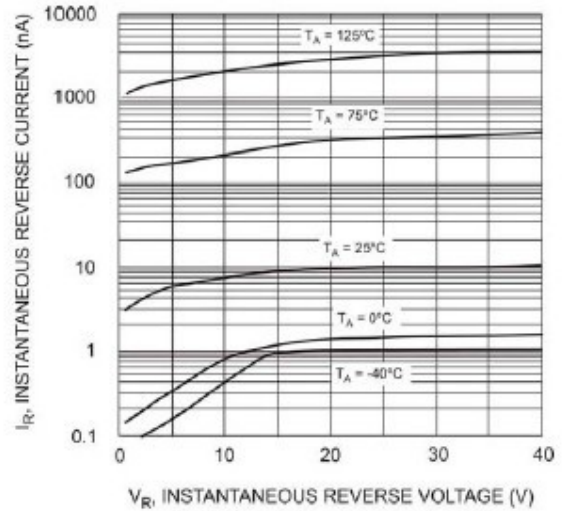## Typical Characteristics

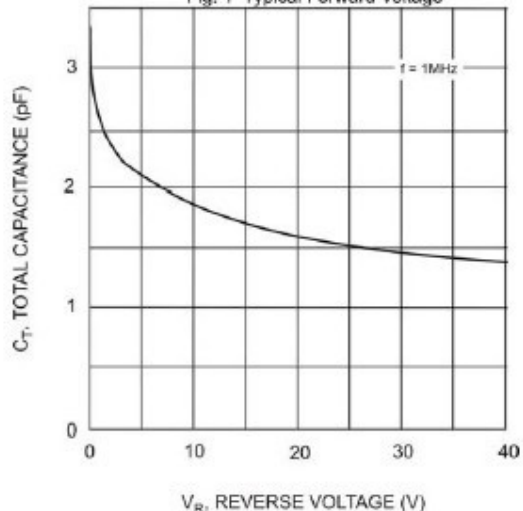Fig. 1 Typical Forward Voltage

Fig. 2 Typical Reverse Characteristics

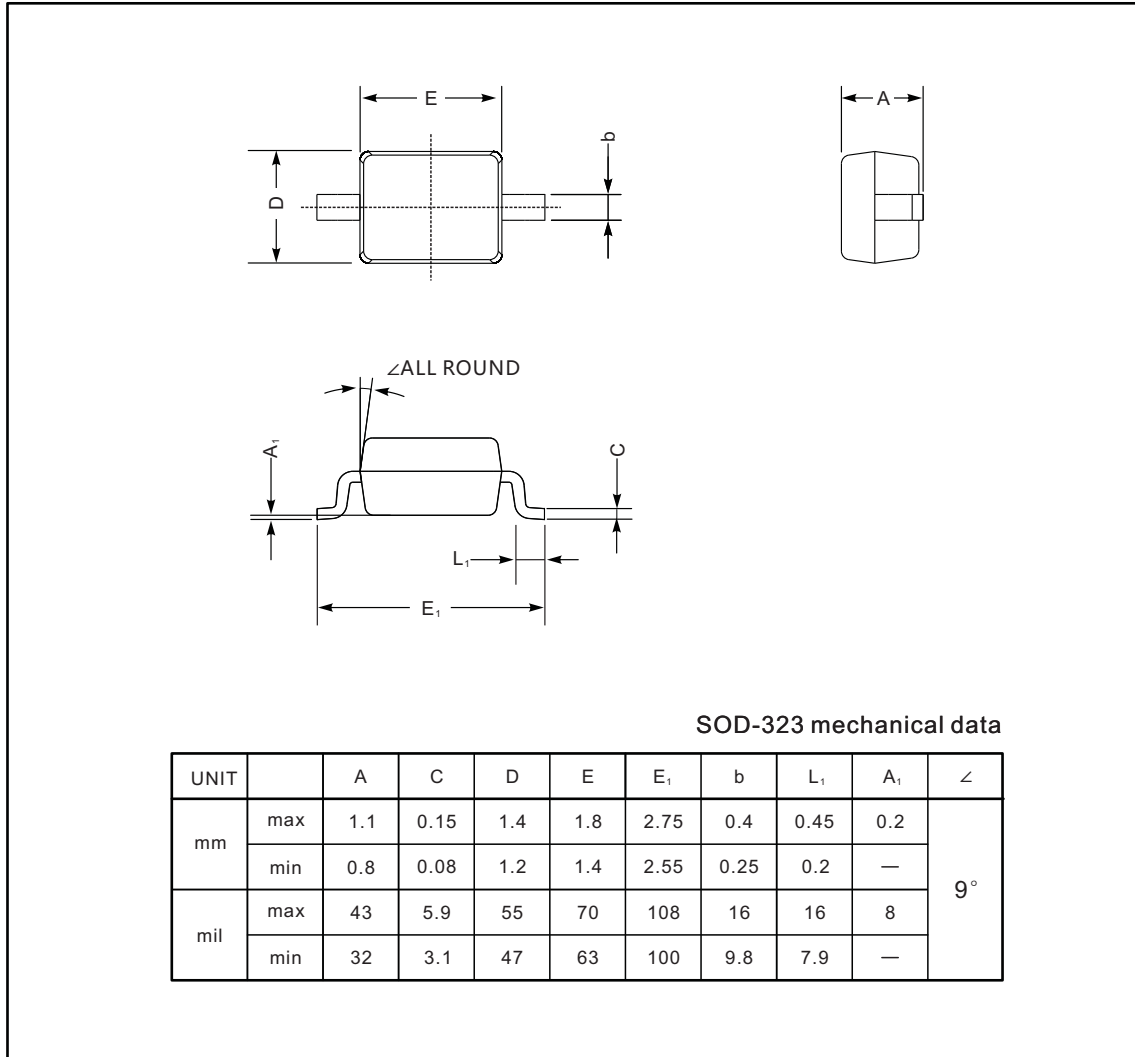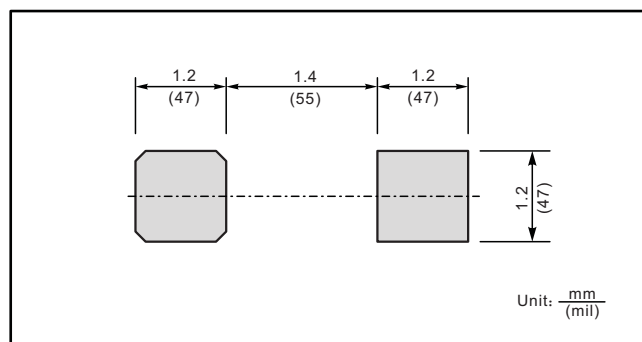Fig. 3 Typical Capacitance

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323

∠ALL ROUND

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

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

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