PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

Top View

Simplified outline SOD-323 and symbol
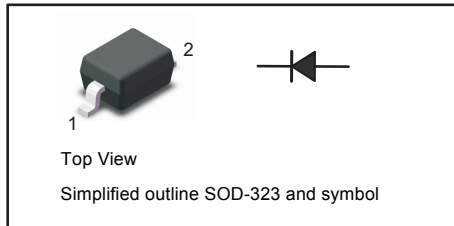
Features

◆ Low forward voltage

◆ Guard ring protected

◆ Small plastic SMD SOD-323 package

Applications

◆ Ultra high-speed switching

◆ Voltage clamping

◆ Protection circuits

Absolute Maximum Ratings (T_a = 25 ℃)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	30	V
Forward Current	I_F	200	mA
Repetitive Peak Forward Current	I_{FRM}	300	mA
Peak Forward Surge Current (t_p = 10 ms)	I_{FSM}	600	mA
Power Dissipation	P_D	230	mW
Thermal Resistance from Junction Ambient	R_{thJA}	500	K/W
Junction Temperature	T_J	125	℃
Storage Temperature Range	T_{stg}	- 65 to + 150	℃

Characteristics at T_a = 25 ℃

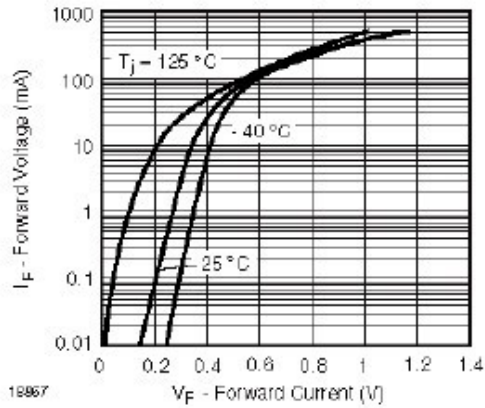| Parameter	Symbol	Max.	Unit
Forward Voltage at I_F = 0.1 mA at I_F = 1 mA at I_F = 10 mA at I_F = 30 mA at I_F = 100 mA	V_F	240 320 400 500 800	mV
Reverse Current at V_R = 25 V	I_R	2	μA
Total Capacitance at V_R = 1 V, f = 1 MHz	C_T	10	pF
Reverse Recovery Time at I_F = 10 mA, V_R = 6 V, I_R = 10 mA, R_L = 100 Ω	t_{rr}	6	ns

Typical Characteristics

Figure 1. Typical Forward Voltage Forward Current at Various Temperatures
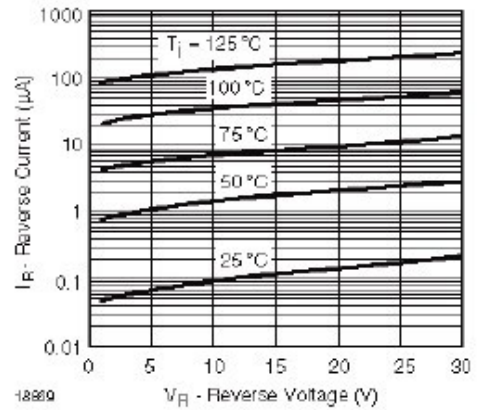

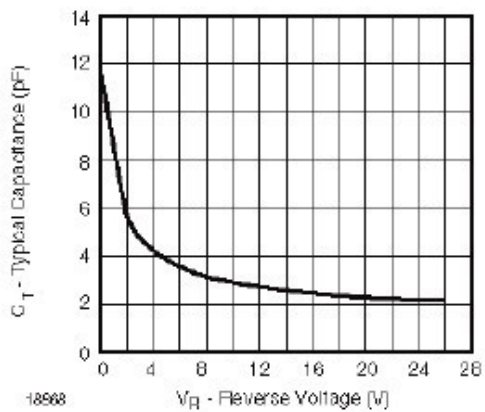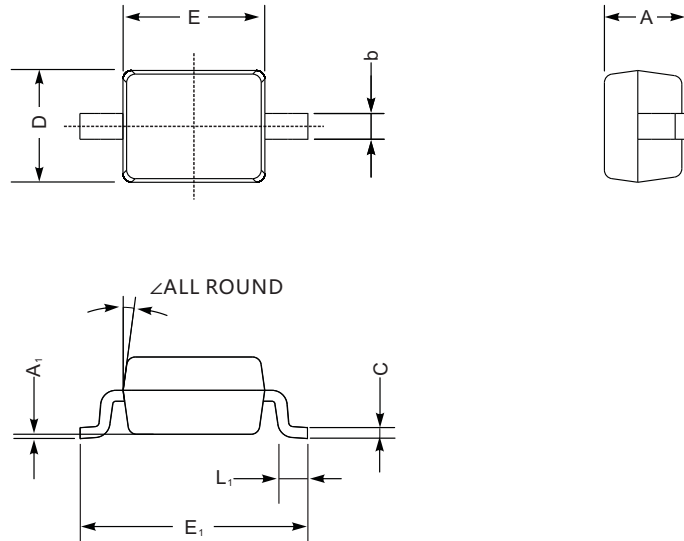Figure 3. Typical Variation of Reverse Current at Various Temperatures

Figure 2. Typical Capacitance °C vs. Reverse Applied Voltage V_R

PACKAGE OUTLINE

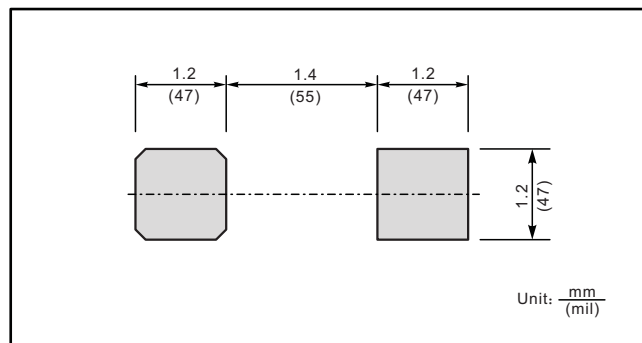**Plastic surface mounted package; 2 leads**

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

Unit: mm/(mil)

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