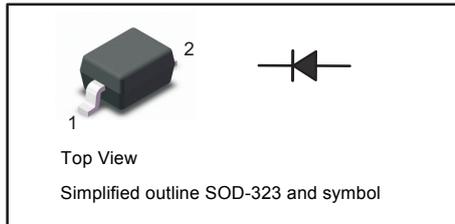


**PINNING**

PIN	DESCRIPTION
1	Cathode
2	Anode


**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<sub>a</sub> = 25 °C)**

Parameter	Symbol	Value	Unit
Reverse Voltage	V <sub>R</sub>	30	V
Forward Current	I <sub>F</sub>	200	mA
Repetitive Peak Forward Current	I <sub>FRM</sub>	300	mA
Peak Forward Surge Current (t <sub>p</sub> = 10 ms)	I <sub>FSM</sub>	600	mA
Power Dissipation	P <sub>D</sub>	230	mW
Thermal Resistance from Junction Ambient	R <sub>thJA</sub>	500	K/W
Junction Temperature	T <sub>J</sub>	125	°C
Storage Temperature Range	T <sub>stg</sub>	- 65 to + 150	°C

**Characteristics at T<sub>a</sub> = 25 °C**

Parameter	Symbol	Max.	Unit
Forward Voltage at I <sub>F</sub> = 0.1 mA at I <sub>F</sub> = 1 mA at I <sub>F</sub> = 10 mA at I <sub>F</sub> = 30 mA at I <sub>F</sub> = 100 mA	V <sub>F</sub>	240 320 400 500 800	mV
Reverse Current at V <sub>R</sub> = 25 V	I <sub>R</sub>	2	μA
Total Capacitance at V <sub>R</sub> = 1 V, f = 1 MHz	C <sub>T</sub>	10	pF
Reverse Recovery Time at I <sub>F</sub> = 10 mA, V <sub>R</sub> = 6 V, I <sub>R</sub> = 10 mA, R <sub>L</sub> = 100 Ω	t <sub>rr</sub>	6	ns

### Typical Characteristics

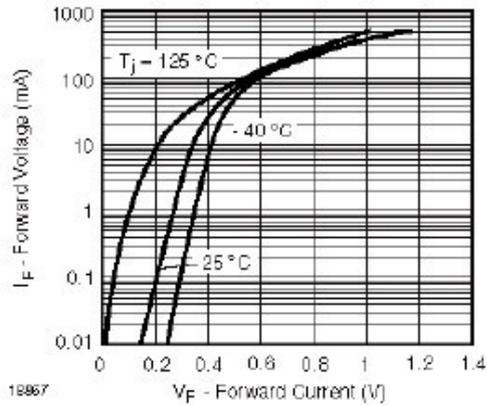


Figure 1. Typical Forward Voltage Forward Current at Various Temperatures

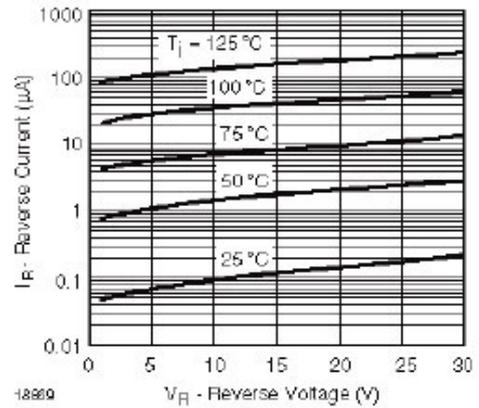


Figure 3. Typical Variation of Reverse Current at Various Temperatures

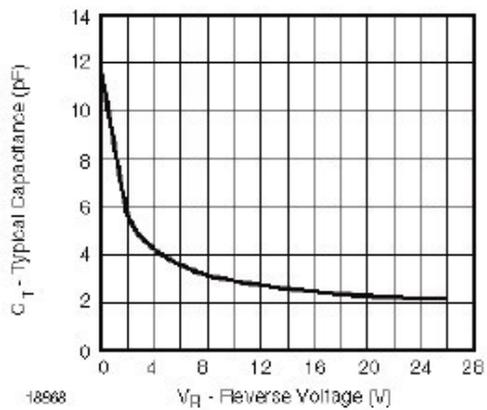
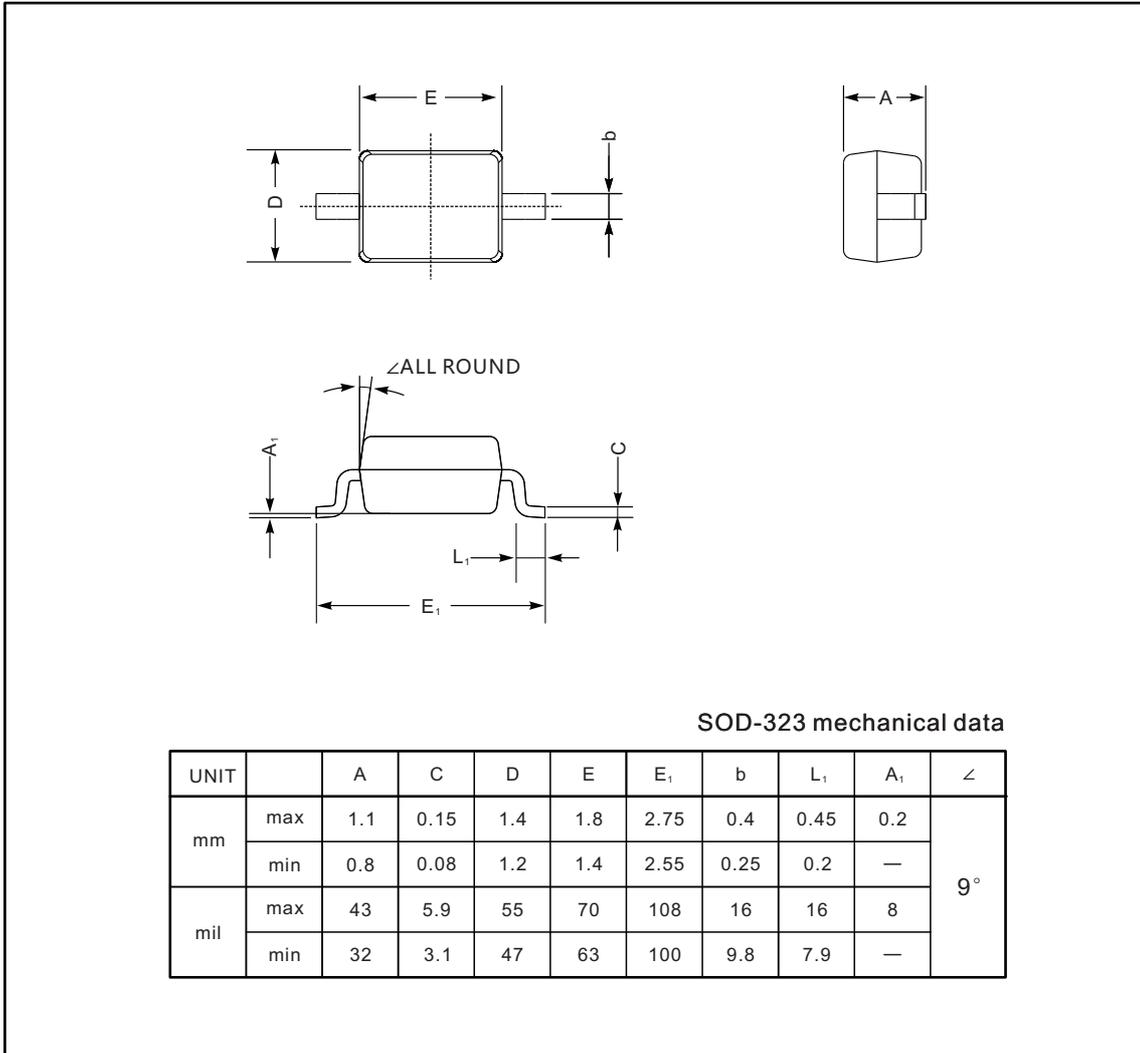


Figure 2. Typical Capacitance °C vs. Reverse Applied Voltage  $V_R$

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



The recommended mounting pad size

