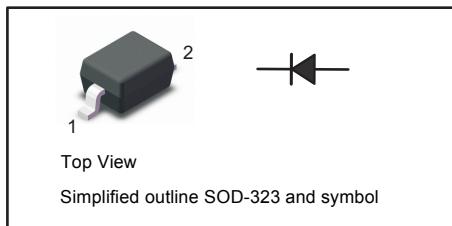


PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode


Applications

- ◆ High-speed switching

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Reverse Voltage	V_R	100	V
Continuous Forward Current	I_F	250	mA
Repetitive Peak Forward Current	I_{FRM}	500	mA
Non-Repetitive Peak Forward Current	I_{FSM}	4 1 0.5	A
Total Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	- 65 to + 150	°C

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 50 \text{ mA}$ at $I_F = 150 \text{ mA}$	V_F	0.715 0.855 1 1.25	V
Reverse Current at $V_R = 25 \text{ V}$ at $V_R = 75 \text{ V}$ at $V_R = 25 \text{ V}, T_j = 150^\circ\text{C}$ at $V_R = 75 \text{ V}, T_j = 150^\circ\text{C}$	I_R	30 1 30 50	nA μA μA μA
Diode Capacitance at $V_R = 0 \text{ V}, f = 1 \text{ MHz}$	C_{tot}	1.5	pF
Reverse Recovery Time at $I_F = I_R = 10 \text{ mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$	t_{rr}	4	ns

Typical Characteristics

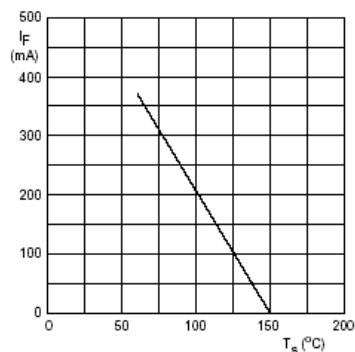


Fig. 1 Maximum permissible continuous forward current as a function of soldering point temperature.

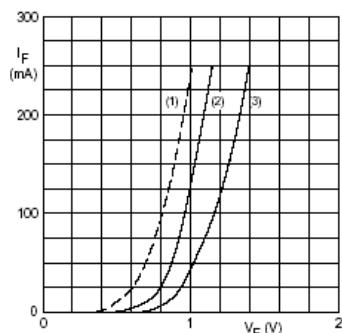
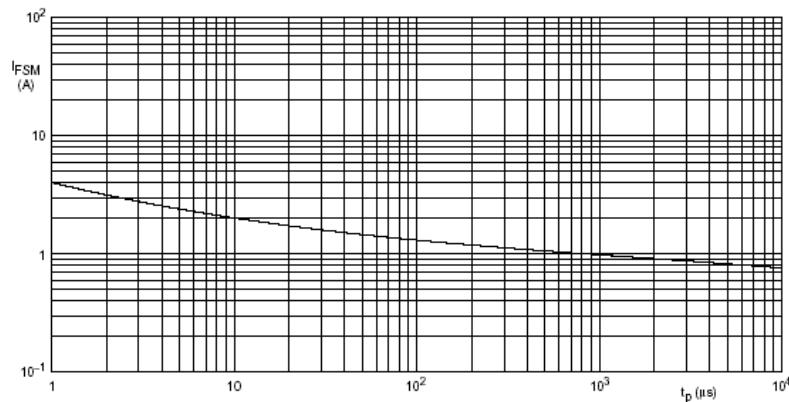


Fig. 2 Forward current as a function of forward voltage.
(1) $T_j = 150$ $^{\circ}$ C; typical values.
(2) $T_j = 25$ $^{\circ}$ C; typical values.
(3) $T_j = 25$ $^{\circ}$ C; maximum values.



Based on square wave currents.
 $T_j = 25$ $^{\circ}$ C prior to surge.

Fig. 3 Maximum permissible non-repetitive peak forward current as a function of pulse duration.

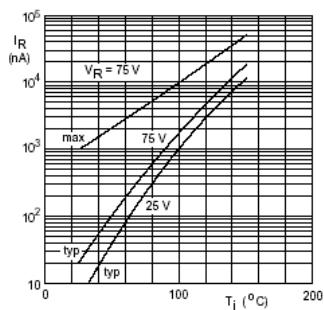


Fig. 4 Reverse current as a function of junction temperature.

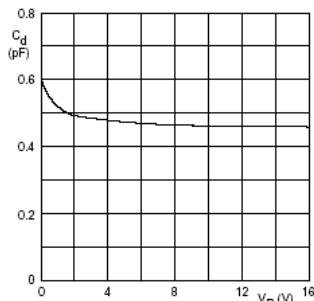
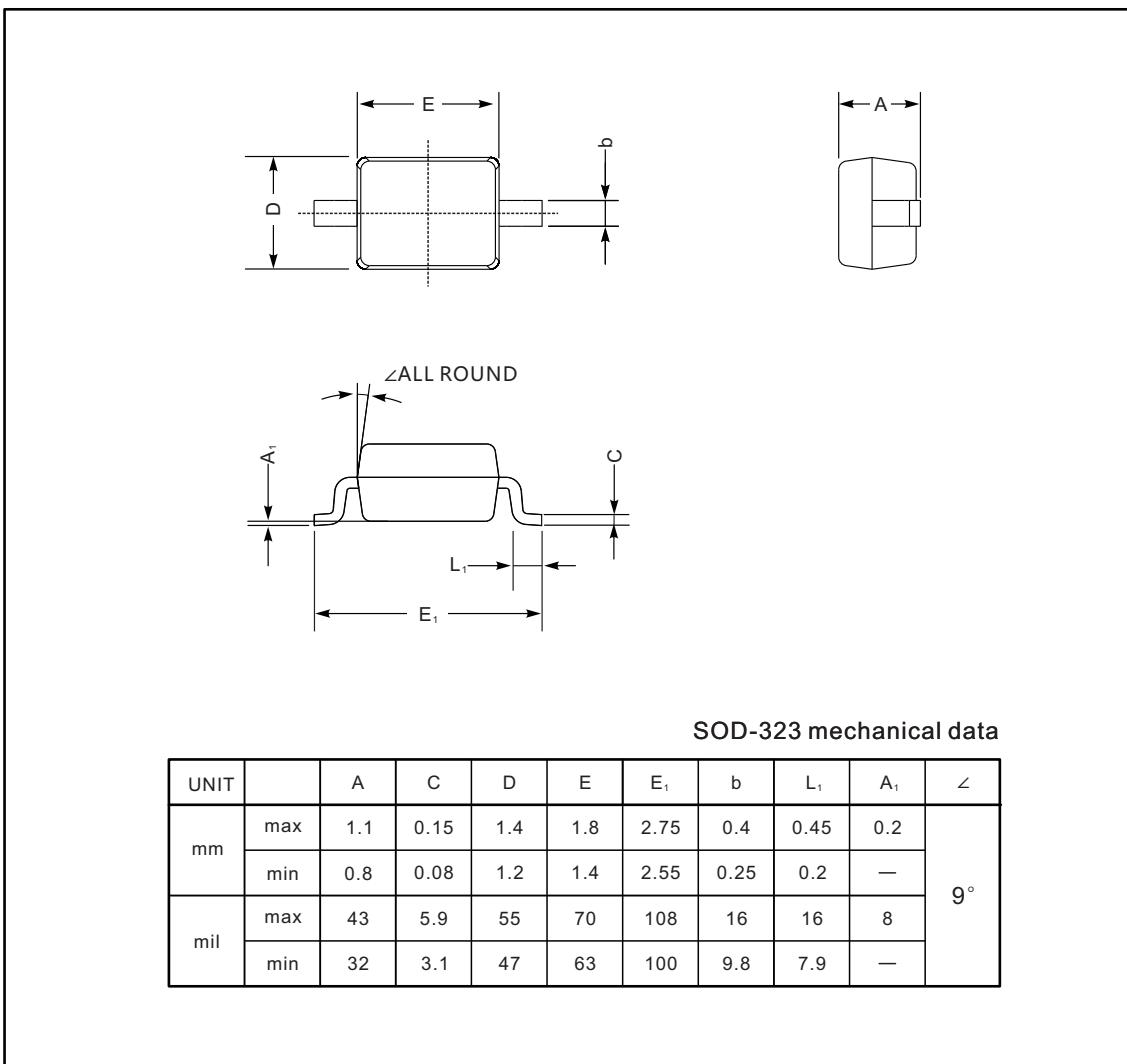


Fig. 5 Diode capacitance as a function of reverse voltage; typical values.
 $f = 1$ MHz; $T_j = 25$ $^{\circ}$ C.

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



The recommended mounting pad size

