

Features

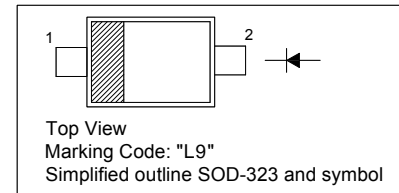
- Low forward voltage
- Guard ring protected
- Small plastic SMD SOD-323 package
- Halogen and Antimony Free(HAF), RoHS compliant

Applications

- Ultra high-speed switching
- Voltage clamping
- Protection circuits

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode


Absolute Maximum Ratings (T_a = 25 °C)

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 _{tot}	230	mW
Thermal Resistance from Junction Ambient	R _{θJA}	500	K/W
Junction Temperature	T _j	125	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

Characteristics at T_a = 25 °C

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 _{tot}	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

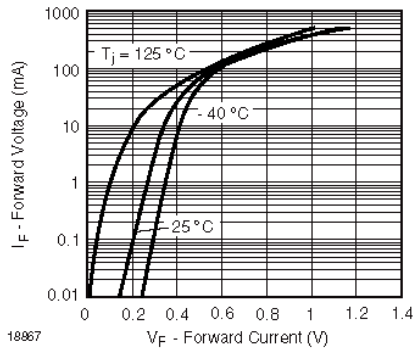


Figure 1. Typical Forward Voltage Forward Current at Various Temperatures

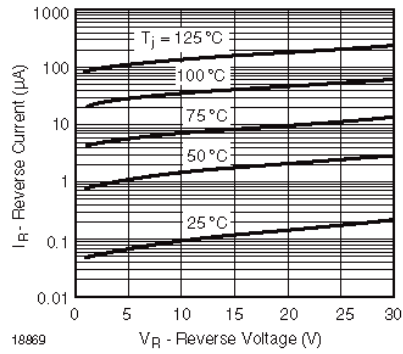


Figure 3. Typical Variation of Reverse Current at Various Temperatures

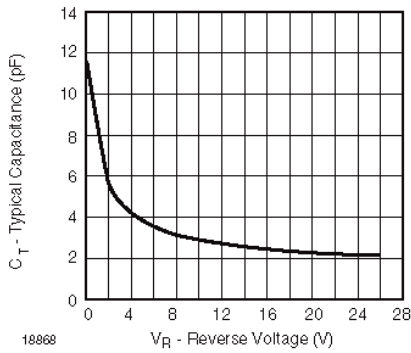
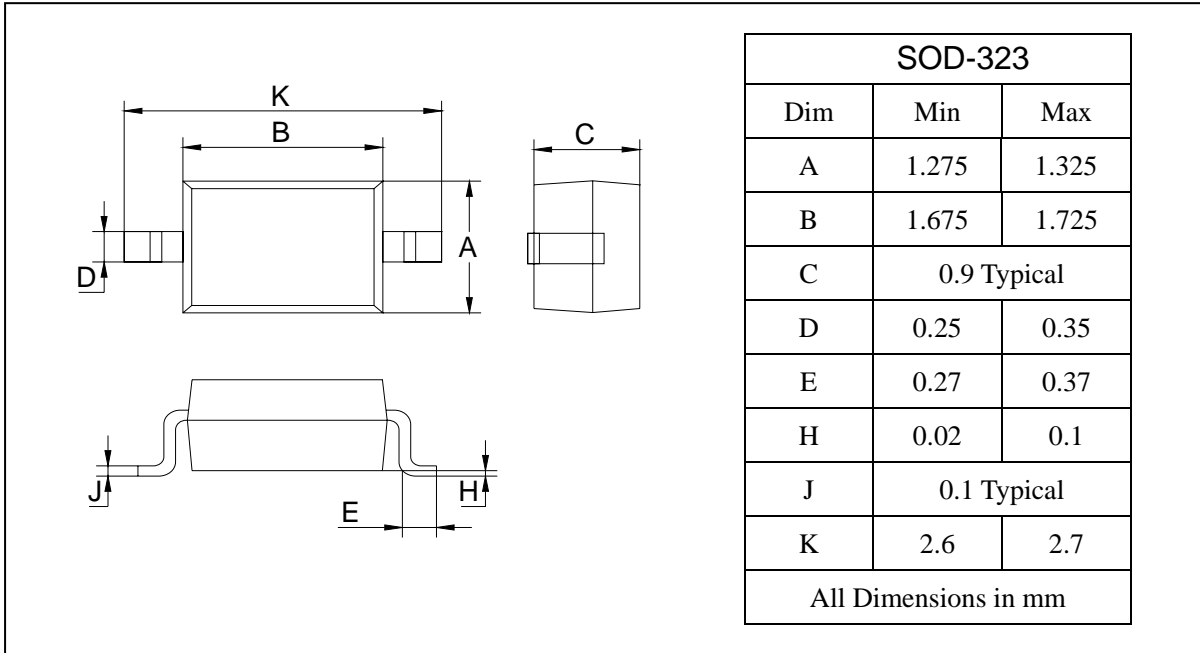


Figure 2. Typical Capacitance C_T vs. Reverse Applied Voltage V_R

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323


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