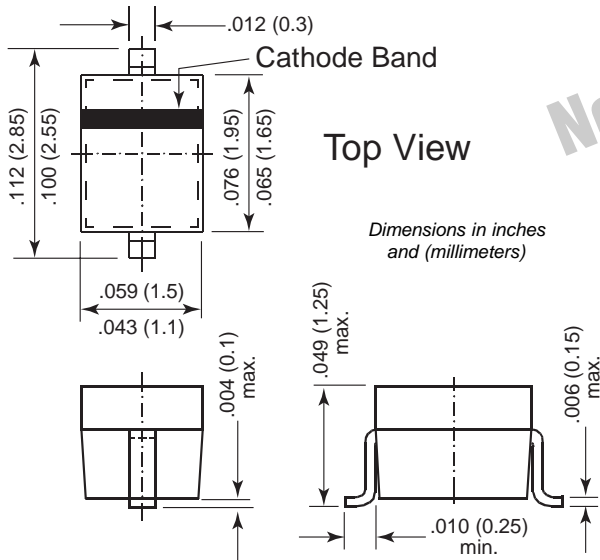


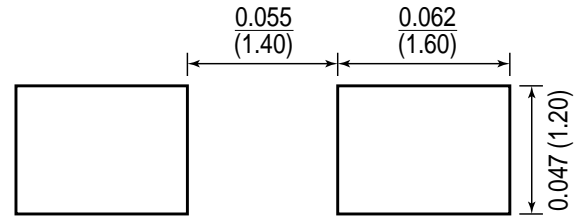


SOD-323



New Product

Pad Layout SOD-323



Mechanical Data

- Case:** SOD-323 plastic case
- Weight:** approximately 0.004 grams
- Marking Code:** S1
- Packaging Codes/Options:**
 - D5/10K per 13" reel (8mm tape)
 - D6/3K per 7" reel (8mm tape)

Features

- Low turn-on voltage
- Fast switching
- Microminiature plastic package
- This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharge.
- Ideal for protection of MOS devices, steering, biasing, and coupling diodes for fast switching and low logic level applications.

Maximum Ratings and Thermal Characteristics (T_C = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	V _R	30	V
Forward Current	I _F	100	mA
Forward Surge Current, t _p = 10 ms	I _{FSM}	0.75	A
Power Dissipation T _C = 25°C	P _{tot}	250 ⁽¹⁾	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	500	°C/W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _S	-65 to +150	°C

Note: (1) Valid provided that electrodes are kept at ambient temperature

Electrical Characteristics (T_J = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	BV _R	I _R = 100 μA	30	—	—	V
Leakage Current	I _R	V _R = 25 V	—	—	1000	nA
Forward Voltage	V _F	I _F = 2.0 mA	—	300	—	mV
		I _F = 15 mA	—	360	—	
		I _F = 50 mA	—	470	550	
		I _F = 100 mA	—	580	800	
Junction Capacitance	C _{tot}	V _R = 10 V, f = 1.0 MHz	—	—	7.0	pF