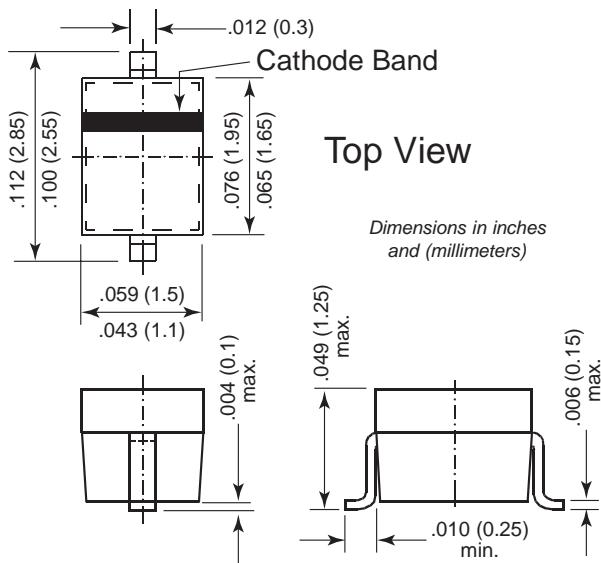




Schottky Diode

SOD-323


Mechanical Data

Case: SOD-323 plastic case

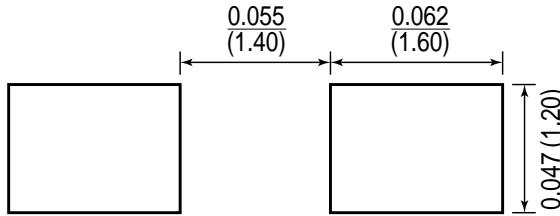
Weight: approximately 0.004g

Marking Code: S1

Packaging Codes/Options:

 D5/10K per 13" reel (8mm tape), 30K/box
 D6/3K per 7" reel (8mm tape), 30K/box

Mounting Pad Layout



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

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

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

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

Vishay Semiconductors
formerly General Semiconductor

Ratings and Characteristic Curves

($T_A = 25^\circ\text{C}$ unless otherwise noted)

