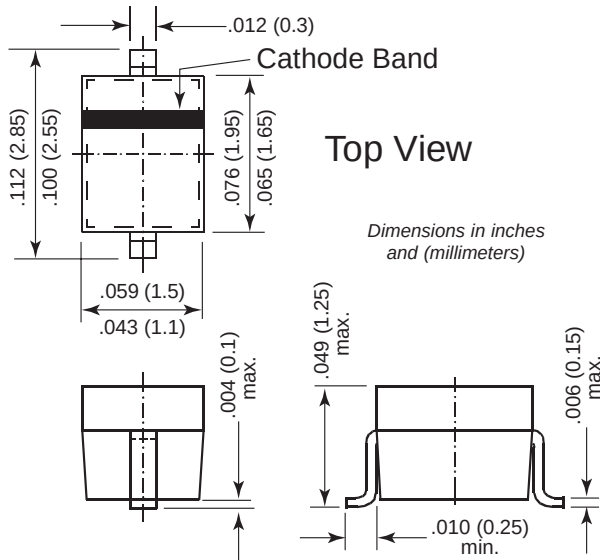




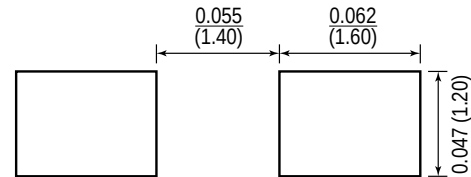
Schottky Diode



SOD-323



Mounting Pad Layout



Features

- Low turn-on voltage
- Low capacitance
- Ultrafast switching
- Ideal for single or double, UHF balanced mixer, modulators and phase detectors
- These diodes are also available in case styles SOT-23 with type designation BAT 17, and SOD-123 with type designation BAT17W

Mechanical Data

Case: SOD-323 Plastic Package

Weight: approx. 0.004g

Marking Code: L7

Packaging Codes/Options:

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

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

Maximum Ratings and Thermal Characteristics ($T_C = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	V_R	4	V
Forward Current	I_F	30	mA
Power Dissipation at $T_C = 25^\circ\text{C}$	P_{tot}	150 ⁽¹⁾	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	650 ⁽¹⁾	$^\circ\text{C/W}$
Maximum Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_S	-65 to +150	$^\circ\text{C}$

Electrical Characteristics ($T_C = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Minimum Reverse Breakdown Voltage at 10 μA	$V_{(BR)R}$	4	V
Maximum Leakage Current at $V_R = 3\text{V}$ at $V_R = 3\text{V}$, $T_{amb} = 60^\circ\text{C}$	I_R	0.25 1.25	μA
Maximum Forward Voltage at $I_F = 10\text{mA}$	V_F	600	mV
Maximum Diodes Capacitance at $V_R = 0\text{V}$, $f = 1\text{MHz}$	C_D	1.0	pF

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