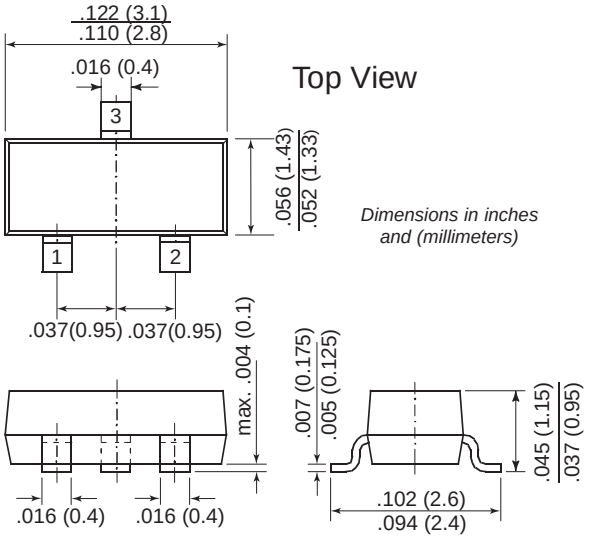
New Product

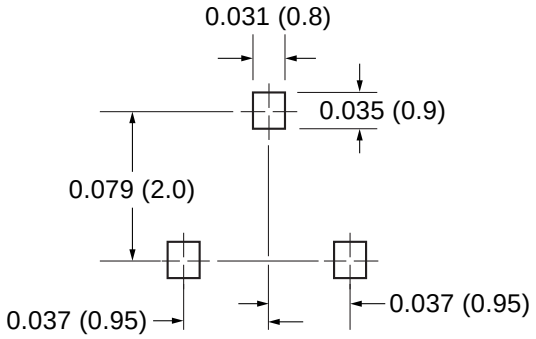
Vishay Semiconductors
formerly General Semiconductor

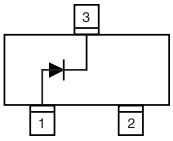
Schottky Diodes

SOT-23

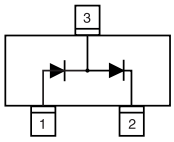


Mounting Pad Layout





Top View
BAT17



Top View
BAT17DS

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 SOD-123 with type designation BAT17W, and SOD-323 with type designation BAT17WS

Mechanical Data

Case: SOT-23 Plastic Package

Weight: approx. 0.008g

Marking Code: L7 for BAT17, L72 for BAT17DS

Packaging Codes/Options:

E8/10K per 13” reel (8mm tape), 30K/box
E9/3K per 7” reel (8mm tape), 30K/box

Maximum Ratings and Thermal Characteristics (T_C = 25°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°C	P_{tot}	150(1)	mW
Thermal Resistance Junction to Ambient Air	$R_{\Theta JA}$	500(1)	°C/W
Maximum Junction Temperature	T_j	125	°C
Storage Temperature Range	T_S	–65 to +150	°C

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

Minimum Reverse Breakdown Voltage at 10µA	$V_{(BR)R}$	4	V
Maximum Leakage Current at V_R = 3V at V_R = 3V, Tamb = 60°C	I_R	0.25 1.25	µA
Maximum Forward Voltage at I_F = 10 mA	V_F	600	mV
Maximum Diodes Capacitance at V_R = 0V, f = 1 MHz	C_D	1.0	pF

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

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