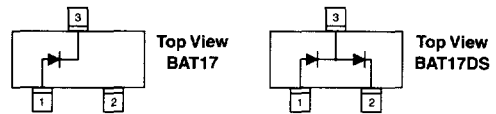
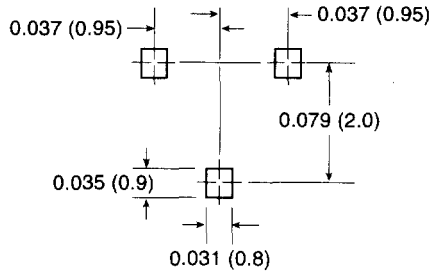
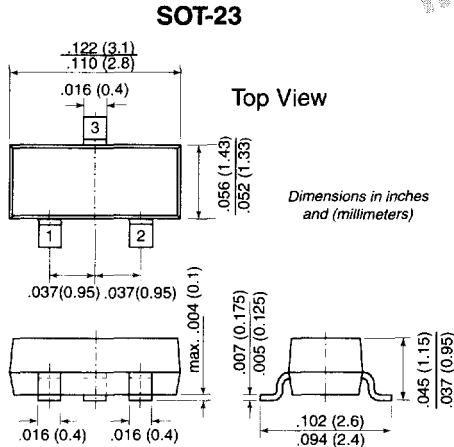




New Product

### 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 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<sub>C</sub> = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	V <sub>R</sub>	4	V
Forward Current	I <sub>F</sub>	30	mA
Power Dissipation at T <sub>C</sub> = 25°C	P <sub>tot</sub>	150 <sup>(1)</sup>	mW
Thermal Resistance Junction to Ambient Air	R <sub>eJA</sub>	500 <sup>(1)</sup>	°C/W
Maximum Junction Temperature	T <sub>j</sub>	125	°C
Storage Temperature Range	T <sub>s</sub>	-65 to +150	°C

### Electrical Characteristics (T<sub>C</sub> = 25°C unless otherwise noted)

Minimum Reverse Breakdown Voltage at 10μA	V <sub>(BR)R</sub>	4	V
Maximum Leakage Current at V <sub>R</sub> = 3V at V <sub>R</sub> = 3V, T <sub>amb</sub> = 60°C	I <sub>R</sub>	0.25 1.25	μA
Maximum Forward Voltage at I <sub>F</sub> = 10 mA	V <sub>F</sub>	600	mV
Maximum Diodes Capacitance at V <sub>R</sub> = 0V, f = 1 MHz	C <sub>D</sub>	1.0	pF

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

5/22/00