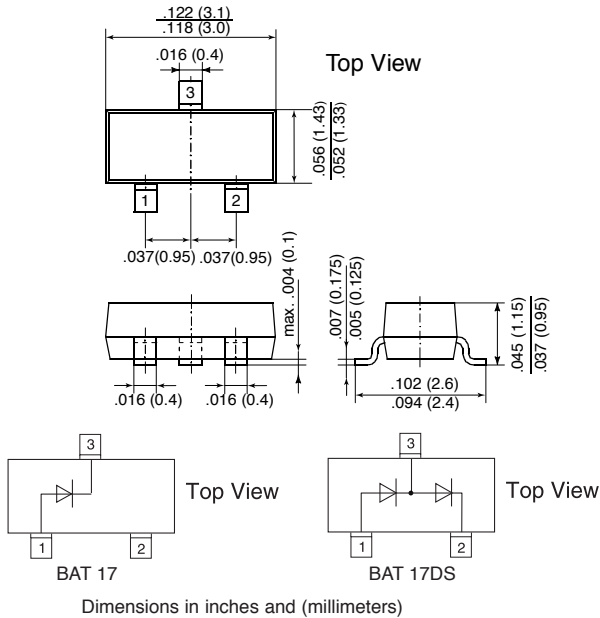


# BAT17 and BAT17DS

## SCHOTTKY DIODES

### SOT-23



### FEATURES

- ◆ Low turn-on voltage
- ◆ Low capacitance
- ◆ Ultrafast switching
- ◆ Microminiature plastic package
- ◆ Single, double, and ring balanced mixer in narrow-band receivers up to 1 GHz
- ◆ Detectors and fast switching up to 1 GHz
- ◆ Phase detectors
- ◆ Suitable for radios, TV, CTV, and hyperband tuners
- ◆ 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. 0.008 g  
**Marking Code:** L7 for BAT17, L72 for BAT17DS

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOL	VALUE	UNIT
Minimum Reverse Breakdown Voltage at 10 $\mu$ A	V <sub>R</sub>	4	Volts
Forward Current	I <sub>F</sub>	30	mA
Power Dissipation T <sub>C</sub> = 25°C	P <sub>tot</sub>	150 (NOTE 1)	mW
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> I <sub>R</sub>	0.25 1.25	$\mu$ A $\mu$ A
Maximum Forward Voltage at I <sub>F</sub> = 10 mA	V <sub>F</sub>	600	mV
Maximum Diodes Capacitance at V <sub>R</sub> = 0 V, f = 1 MHz	C <sub>D</sub>	1.0	pF
Thermal Resistance Junction to Ambient Air	R <sub>thja</sub>	500 (NOTE 1)	°C/W
Junction Temperature	T <sub>j</sub>	125	°C
Storage Temperature Range	T <sub>s</sub>	-65 to + 150	°C

**NOTES:**

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



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