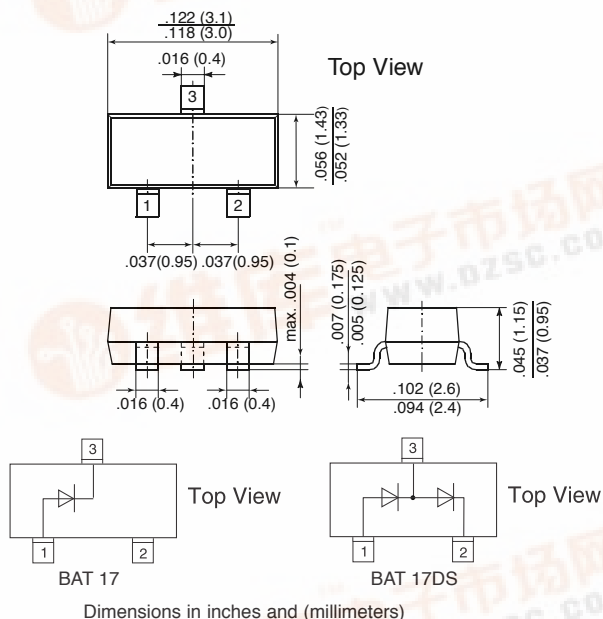


BAT17 and BAT17DS

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 μ A	V _R	4	Volts
Forward Current	I _F	30	mA
Power Dissipation T _C = 25°C	P _{tot}	150 (NOTE 1)	mW
Maximum Leakage Current at V _R = 3V at V _R = 3V, T _{amb} = 60°C	I _R I _R	0.25 1.25	μ A μ A
Maximum Forward Voltage at I _F = 10 mA	V _F	600	mV
Maximum Diodes Capacitance at V _R = 0 V, f = 1 MHz	C _D	1.0	pF
Thermal Resistance Junction to Ambient Air	R _{thja}	500 (NOTE 1)	°C/W
Junction Temperature	T _j	125	°C
Storage Temperature Range	T _s	-65 to + 150	°C

NOTES:

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