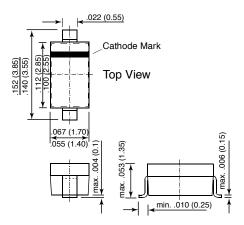
BAT17W

SCHOTTKY DIODES

SOD-123



Dimensions in inches and (millimeters)

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 SOT-23 with type designation BAT17, and SOD-323 with type designation BAT17WS.

MECHANICAL DATA

Case: SOD-123 Plastic Package

Weight: approx. 0.01 g Marking Code: L7

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOL	VALUE	UNIT
Minimum Reverse Breakdown Voltage at $10\mu\text{A}$	VR	4	Volts
Forward Current	lF	30	mA
Power Dissipation Tc= 25°C	Ptot	150 (NOTE 1)	mW
Maximum Leakage Current at $V_R = 3V$ at $V_R = 3V$, Tamb = 60° C	IR IR	0.25 1.25	μA μA
Maximum Forward Voltage at I _F = 10 mA	VF	600	mV
Maximum Diodes Capacitance at V _R = 0 V, f = 1 MHz	CD	1.0	pF
Thermal Resistance Junction to Ambient Air	R _{thja}	500 (NOTE 1)	°C/W
Junction Temperature	Tj	125	°C
Storage Temperature Range	Ts	-65 to + 150	°C

NOTES

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

