NEW PRODUCT

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BAT54WS

SCHOTTKY DIODES

<u>SOD-323</u>

Cathode Mark

Top View

(1.25)

049

nax.

Dimensions in inches and (millimeters)

.012 (0.3)

FEATURES

 These diodes feature very low turn-on voltage and fast switching.



 These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges.

MECHANICAL DATA

Case: SOD-323 Plastic Package Weight: approx. 0.004g Marking Code: L4

.006 (0.15)

nax.

MAXIMUM RATINGS

min. .010 (0.

Ratings at 25°C ambient temperature unless otherwise specified

059 (*

	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	Vrrm	30	Volts
Forward Continuous Current at Tamb = 25 °C	lF	200 ¹⁾	mA
Repetitive Peak Forward Current at Tamb = 25 °C	IFRM	300 ¹⁾	mA
Surge Forward Current at tp < 1s, Tamb = 25 °C	IFSM	600 ¹⁾	mA
Power dissipation at Tamb = 25 °C	Ptot	150 ¹⁾	mW
Maximum Junction Temperature	Tj	150	°C
Storage Temperature Range	Ts	– 65 to +150	°C

NOTES:

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



BAT54WS

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage tested with 100μA Pulses	V(BR)R	30	_	_	Volts
Forward Voltage Pulse Test tp < 300μ s, $\delta < 2\%$ at IF = 0.1mA at IF = 1mA at IF = 10mA at IF = 30mA at IF = 100mA	Vf Vf Vf Vf Vf			240 320 400 500 1000	mV mV mV mV mV
Leakage Current Pulse Test tp < 300 μ s, δ < 2% at VR = 25 V	IR	-	_	2	μA
Capacitance at V _F = 1 V, f = 1 MHz	Ctot	-	_	10	pF
Reverse Recovery Time from I _F = 10mA through I _R = 10 mA to I _R = 1mA, R _L = 100 Ω	trr	_	_	5	ns
Thermal Resistance Junction to Ambient Air	RthJA	_	-	650 ¹⁾	°C/W

NOTES:

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

