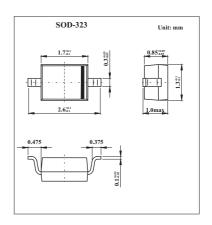
SMD Type Diodes

# SURFACE MOUNT SCHOTTKY BARRIER DIODE BAT54WS

## ■ Features

- Low Switching
- Fast Switching
- PN Junction Gurad Ring for Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material UL Recognition Flammability Clsaaification 94V-O



# ■ Absolute Maximum Ratings Ta = 25°C

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	VRRM		
Working Peak Reverse Voltage	VRWM	30	V
DC Blocking Volatge	VR		
Forward Continuous Current (Note 1)	lF	200	mA
Rectified Peak Forward Current (Note 1)	IFRM	300	mA
Non-Repetitive Peak Forward Current @ t < 1.0s	IFSM	600	mA
Power Dissipation (Note)	Pd	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	Rеја	625	K/W
Operating and Storage Temperature Range	Тј ,Тѕтс	-55 to+125	$^{\circ}$

#### Note:

# ■ Electrical Characteristics Ta = 25°C

Characteristic	Symbol	Test Condition	Min	Тур	Max	Unit	
Reverse Breakdown Voltage	V(BR)R	@ IRS = 100 μA	30			V	
Forward Voltage Drop (Note 2)	VF	@ IF = 1.0 mA			0.32	V	
		@ IF = 100 mA			1.0		
Reverse Leakage Current (Note 2)	lr	@ V <sub>R</sub> = 25 V			2.0	μ <b>Α</b>	
Junction Capacitance	Cj	@ V <sub>R</sub> = 1.0 V, f = 1.0 MHz			10	pF	
Reverse Recovery Time trr	trr	IF = 10 mA through IR = 100 mA to			5.0	nS	
		IRR = 1.0 mA , RL = 100 $\Omega$					

#### Note:

2. t <300 μs, duty cycle < 2%

## Marking

Marking	L4

<sup>1.</sup> Valid provided that terminals are kept at ambient temperature.