

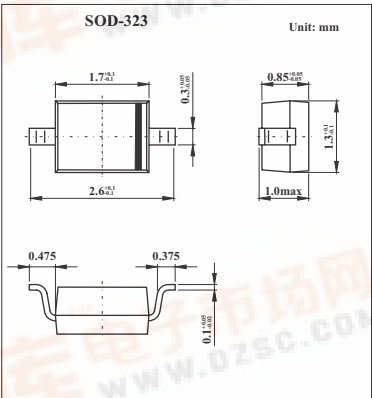
SMD Type

Diodes

SURFACE MOUNT SCHOTTKY BARRIER DIODE
BAT42WS / BAT43WS

■ Features

- Low Switching
 - Fast Switching
 - PN Junction Guard Ring for Transient and ESD Protection
 - Designed for Surface Mount Application
 - Plastic Material - UL Recognition Flammability
- Classification 94V-0



■ Absolute Maximum Ratings Ta = 25℃

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	VRRM		
Working Peak Reverse Voltage	VRWM	30	V
DC Blocking Voltage	VR		
Forward Continuous Current (Note 1)	IF	200	mA
Rectified Peak Forward Current (Note 1) @ T < 1.0s	IFSM	500	mA
Non-Repetitive Peak Forward Current @ t < 10ms	IFSM	4.0	A
Power Dissipation	Pd	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	RθJA	625	K/W
Operating and Storage Temperature Range	Tj, TSTG	-55 to +125	℃

Note:

1. Valid provided that terminals are kept at ambient temperature.

■ Electrical Characteristics Ta = 25℃

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V(BR)R	@ IRS = 100 μA	30			V
Forward Voltage	VF	BAT42WS @ IF = 1.0 mA			0.4	V
		BAT42WS @ IF = 200 mA			1.0	
		BAT43WS @ IF = 2.0 mA			0.33	
		BAT43WS @ IF = 200 mA			1.0	
Reverse Leakage Current	IR	@ VR = 25 V			0.5	μA
Junction Capacitance	Cj	VR = 1.0 V, f = 1.0 MHz			10	pF
Reverse Recovery Time	trr	IF = IR = 10 mA IRR = 0.1 x IR, RL = 100 Ω			5.0	nS

■ Marking

Type	BAT42WS	BAT43WS
Marking	L2	L3

