

BAT42WS / BAT43WS

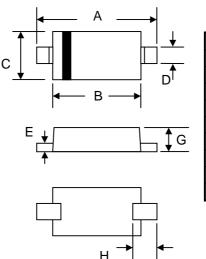
SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

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

Mechanical Data

- Case: SOD-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.004 grams (approx.)
- Marking: BAT42WS L2
 - BAT43WS L3



	SOD-323			
Dim	Min	Max		
Α	2.30	2.70		
В	1.75	1.95		
С	1.15	1.35		
D	0.25	0.35		
Е	0.05	0.15		
G	0.70	0.95		
Н	0.30	_		
All Dimensions in mm				

$\label{eq:maximum Ratings} @T_{A} = 25^{\circ}C \text{ unless otherwise specified}$

Characteristic	Symbol	BAT42WS / BAT43WS	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	30	V
Forward Continuous Current (Note 1)	lf	200	mA
Repetitive Peak Forward Current (Note 1) @ t < 1.0s	 FRM	500	mA
Non-Repetitive Peak Forward Surge Current @ t < 10ms	IFSM	4.0	А
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	°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteris	tic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Volta	age	V(BR)R	30	—	_	V	@ IRS = 100µA
Forward Voltage	BAT42WS BAT42WS BAT43WS BAT43WS	Vf	_	_	0.4 1.0 0.33 1.0	V	 @ IF = 1.0mA @ IF = 200mA @ IF = 2.0mA @ IF = 200mA
Reverse Leakage Current	t	IR		—	0.5	μΑ	@ V _R = 25V
Junction Capacitance		Cj	_	—	10	pF	V _R = 1.0V, f = 1.0MHz
Reverse Recovery Time		trr	_	—	5.0	nS	IF = IR = 10mA, IRR = 0.1 x IR, RL = 100 Ω

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

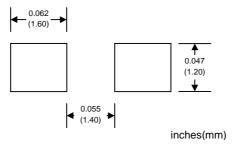
Product No.	Package Type	Shipping Quantity		
BAT42WS-T1	SOD-323	3000/Tape & Reel		
BAT42WS-T3	SOD-323	10000/Tape & Reel		
BAT43WS-T1	SOD-323	3000/Tape & Reel		
BAT43WS-T3	SOD-323	10000/Tape & Reel		

ORDERING INFORMATION

Products listed in **bold** are WTE **Preferred** devices. *T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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