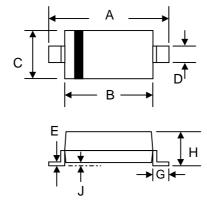


BAT42W / BAT43W

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



SOD-123				
Dim	Min	Max		
Α	3.6	3.9		
В	2.5	2.8		
С	1.4	1.8		
D	0.5	0.7		
Е	_	0.2		
G	0.4	_		
Н	0.95	1.35		
J	_	0.12		
All Dimensions in mm				

Mechanical Data

Case: SOD-123, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.01 grams (approx.)

Marking: BAT42W L2

BAT43W L3

Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	BAT42W / BAT43W	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	IFRM	500	mA
Non-Repetitive Peak Forward Surge Current @ t < 10ms	IFSM	4.0	Α
Power Dissipation	Pd	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	RθJA	625	K/W
Operating and Storage Temperature Range	Тj, Тsтg	-55 to +125	°C

Electrical Characteristics @T_A=25°C unless otherwise specified

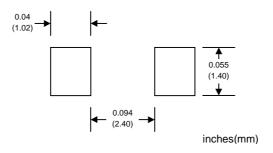
Characteristic		Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage		V(BR)R	30	_	_	V	@ IRS = 100µA
Forward Voltage	BAT42W	VF	_	_	0.4	V	@ IF = 10mA
	BAT42W				1.0		@ IF = 200mA
	BAT43W				0.33		@ IF = 2mA
	BAT43W				1.0		@ IF = 200mA
Reverse Leakage Current		IR		_	0.5	μΑ	@ V _R = 25V
Junction Capacitance		Cj		_	10	pF	V _R = 1.0V, f = 1.0MHz
Reverse Recovery Time		trr		_	5	nS	IF = 10mA through IR = 10mA to IR = 1mA, RL = 100 Ω

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

ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity
BAT42W-T1	SOD-123	3000/Tape & Reel
BAT42W-T3	SOD-123	10000/Tape & Reel
BAT43W-T1	SOD-123	3000/Tape & Reel
BAT43W-T3	SOD-123	10000/Tape & Reel

RECOMMENDED FOOTPRINT



Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

We power your everyday.

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.