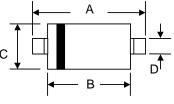


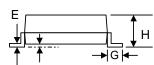
BAT42W / BAT43W

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	
E	_	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

Characteristic	Symbol	BAT42W / BAT43W	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	rking Peak Reverse Voltage		30	٧
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	А
Power Dissipation		Pd	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)		RθJA	625	K/W
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +125	°C	

Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic		Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage		V(BR)R	30	_	_	V	@ IRS = 100μA
	BAT42W				0.4		@ IF = 10mA
Forward Voltage	BAT42W	VF	_	_	1.0	V	@ IF = 200mA
	BAT43W				0.33		@ IF = 2mA
	BAT43W				1.0		@ IF = 200mA
Reverse Leakage Current		I R		_	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

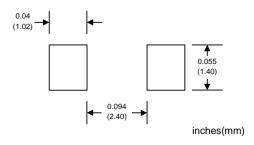
Note: 1. Valid provided that terminals are kept at ambient temperature.

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

Products listed in **bold** are WTE **Preferred** devices.

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.

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We power your everyday.

^{*}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.