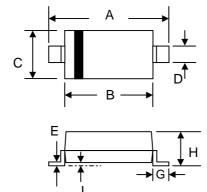


SURFACE MOUNT SCHOTTKY BARRIER DIODE

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

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

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	 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)	$R_{ heta}JA$	625	K/W
Operating and Storage Temperature Range	Тj, Тsтg	-55 to +125	°C

Electrical Characteristics @T_A=25°C unless otherwise specified

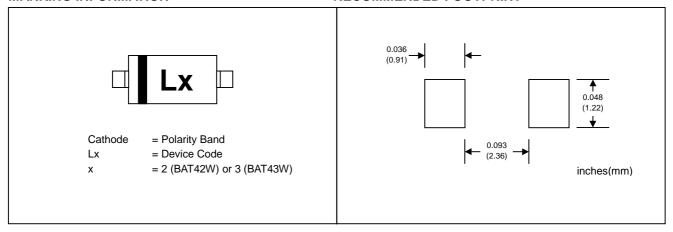
Characteristic		Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage		V(BR)R	30	_	_	V	@ IRS = 100μA
Forward Voltage	BAT42W BAT42W BAT43W BAT43W	VF	_	_	0.4 1.0 0.33 1.0	V	@ IF = 10mA @ IF = 200mA @ IF = 2mA @ IF = 200mA
Reverse Leakage Current		lR	_	_	0.5	μΑ	@ V _R = 25V
Junction Capacitance		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.

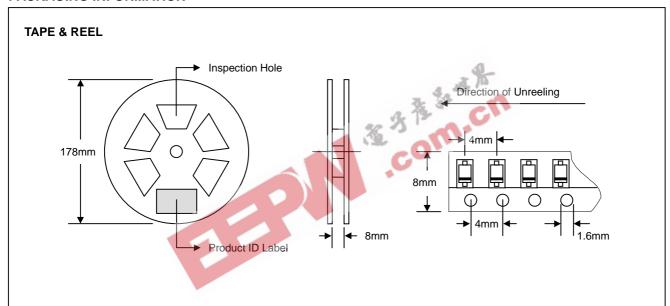


MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	10.0

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

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

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, BAT42W-T1-LF.



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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