

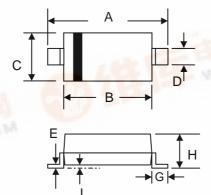
BAT42W / BAT43W



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

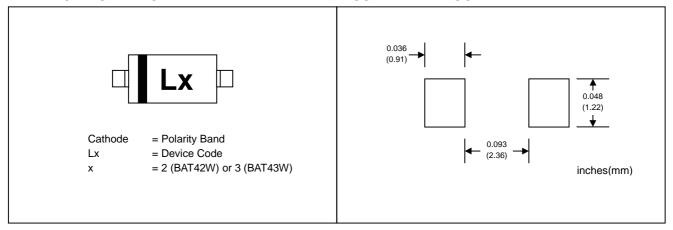
Electrical Characteristics @T_A=25°C unless otherwise specified

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		I R	_	_	0.5	μA	@ 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 = 100Ω

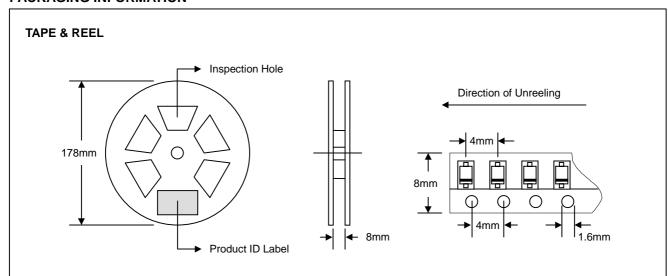
Note: 1. Valid provided that terminals are kept at ambient temperature.

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

- 1.
- 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. 2.

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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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