

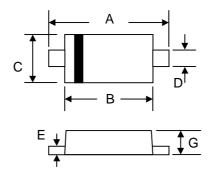




SURFACE MOUNT SCHOTTKY BARRIER DIODE

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-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					

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

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	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	I 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	Тj, Tsтg	-55 to +125	°C

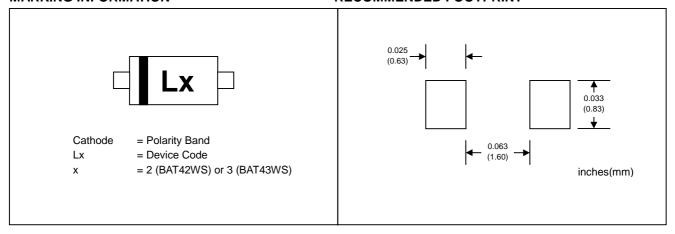
Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic		Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage		V(BR)R	30	_	_	V	@ IRS = 100μA
Forward Voltage	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		lR	_	_	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 = 100Ω

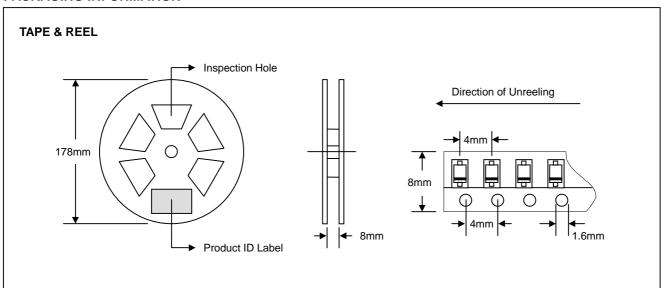
Note: 1. Valid provided that terminals are kept at ambient temperature.

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	5,000	187 x 187 x 65	25,000	390 x 240 x 420	250,000	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
BAT42WS-T1	SOD-323	5000/Tape & Reel
BAT43WS-T1	SOD-323	5000/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, BAT42WS-T1-LF.

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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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