

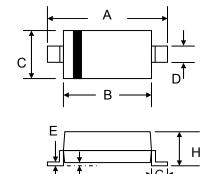
BAT42WS / BAT43WS

SURFACE MOUNT SCHOTTKY BARRIER DIODE



Features

- Low Turn-On Voltage
- Fast Switching Speed
- PN Junction Guard Ring for Transient and ESD Protection
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0



SOD-323					
Dim	Min	Max			
Α	2.30	2.75			
В	1.60	1.80			
С	1.20	1.40			
D	0.25	0.40			
Е	0.05	0.15			
G	0.20	0.40			
Н	_	1.10			
J	_	0.10			
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: Device Code, See Page 3

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

Maximum Ratings @TA=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		lF	20	00	mA
Repetitive Peak Forward Current	@ t < 1.0s	IFRM	50	00	mA
Non-Repetitive Peak Forward Surge Current @ t < 10ms		IFSM	4.0		Α
Operating and Storage Temperature Range		Тл, Тѕтс	-55 to	+125	°C

Thermal Characteristics

Characteristic	Symbol	BAT42WS	BAT43WS	Unit
Power Dissipation (Note 1)	PD	200		mW
Thermal Resistance, Junction to Ambient (Note 1)	R JA	625		°C/W

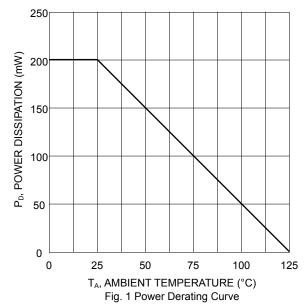
Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

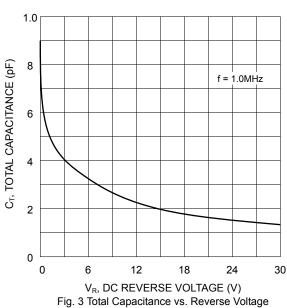
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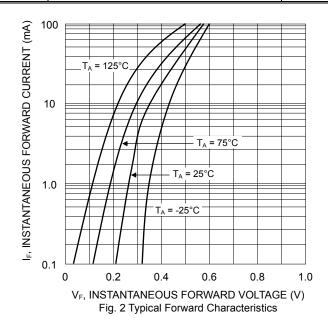


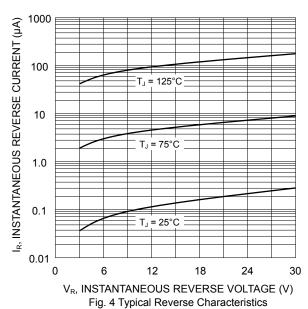
Electrical Characteristics @TA=25°C unless otherwise specified

Characterist	ic	Symbol	BAT42WS	BAT43WS	Unit
Min. Reverse Breakdown Voltage	@ IR = 100μA	V(BR)	3	0	V
Max. Forward Voltage Drop	@ IF = 2.0mA @ IF = 10mA @ IF = 200mA	VFM		0.33 — 1.0	V
	VR = 25V, TJ = 25°C VR = 25V, TJ = 100°C	IRM	0	5 00	μA
Diode Capacitance (VR = 1.0V, f = 1.0MHz)		C _D	1	0	pF
Reverse Recovery Time (IF = IR = 10mA, IRR = 0.1 x IR, RL = 100 Ω)		trr	5	.0	nS





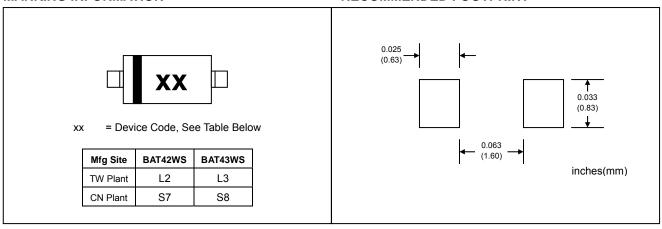




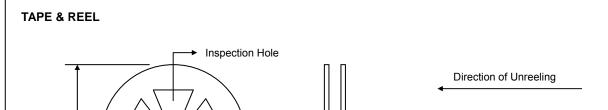


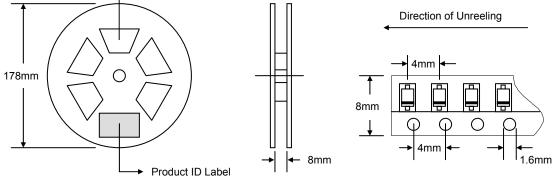
MARKING INFORMATION

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	7.0

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	3000/Tape & Reel
BAT43WS-T1	SOD-323	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" 2. 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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