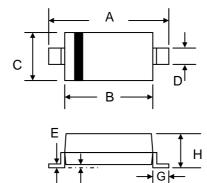


SURFACE MOUNT SCHOTTKY BARRIER DIODE

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	2.75		
В	1.60	1.80		
С	1.15	1.35		
D	0.25	0.40		
E	0.09	0.18		
G	0.20	0.40		
Н	0.80	1.00		
J	_	0.12		
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 2
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 3

Characteristic	Symbol	BA\$40W\$	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	40	V
Forward Continuous Current (Note 1)	lF	200	mA
Forward Surge Current @ t < 1.0s	IFSM	600	mA
Power Dissipation (Note 1)	Pd	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	R θ JA	625	°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 to +125	°C

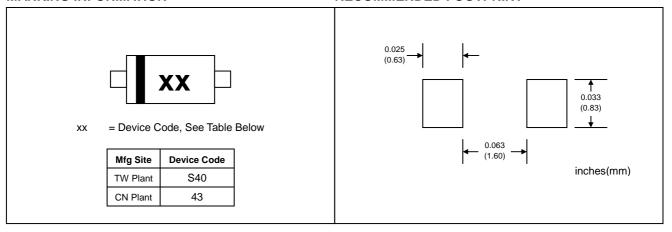
Electrical Characteristics @TA=25°C unless otherwise specified

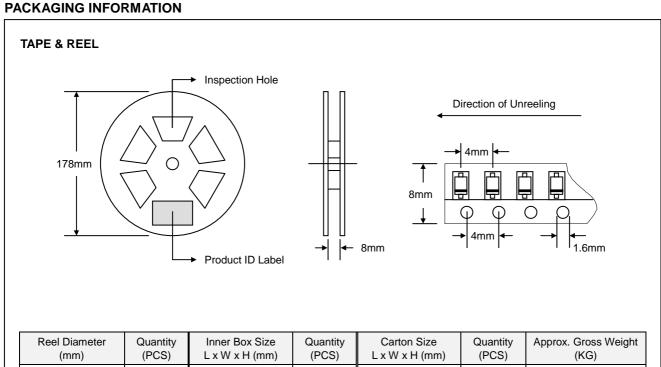
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage	V(BR)R	40	_	_	V	@ IR = 10μA
Forward Voltage	VF	_	_	380 500 1000	mV	@ IF = 1.0mA, t < 300μs @ IF = 10mA, t < 300μs @ IF = 40mA, t < 300μs
Reverse Leakage Current	lR	_	20	200	nA	@ V _R = 30V, t < 300μs
Junction Capacitance	Cj	_	4.0	5.0	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time	trr	_	_	5.0	nS	IF = 10mA through IR = 10mA to IR = 1.0mA, RL = 100Ω

Note: 1. Device on fiberglass substrate.

MARKING INFORMATION

RECOMMENDED FOOTPRINT





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
BAS40WS-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, BAS40WS-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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