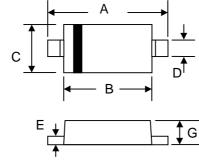


# **BAS19WS - BAS21WS**

## SURFACE MOUNT FAST SWITCHING DIODE

### **Features**

- High Conductance
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching 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	
E	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: BAS19WS A8

BAS20WS A80 BAS21WS A82

## Maximum Ratings @T<sub>A</sub>=25°C unless otherwise specified

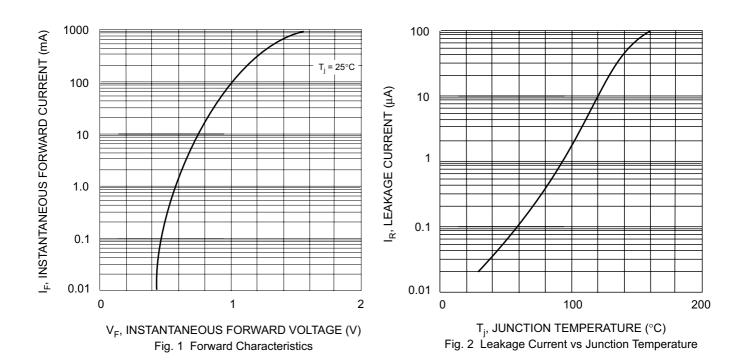
Characteristic		Symbol	BAS19WS	BAS20WS	BAS21WS	Unit
Non-Repetitive Peak Reverse Voltage		VRM	120	200	250	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	100	150	200	V
RMS Reverse Voltage		VR(RMS)	70	105	140	٧
Forward Continuous Current (Note 1)		lF		400		mA
Average Rectified Output Current (Note 1)		lo		200		mA
Non-Repetitive Peak Forward Surge Current @ t = 1 @ t =		IFSM		2.5 0.5		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, Tsтg		-65 to +150		°C

# Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Characteristic		Symbol	BAS19WS	BAS20WS	BAS21WS	Unit
Forward Voltage Drop	@ IF = 100mA	VFM		1.0		V
Peak Reverse Leakage Current @ Rate	d DC Blocking Voltage	<b>I</b> RM		100		nA
Typical Junction Capacitance (VR = 0V DC, f = 1.0MHz)		Cj	5.0		pF	
Reverse Recovery Time (Note 2)		trr		50		nS

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

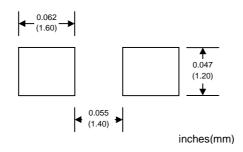
2. Measured with IF = IR = 30mA, IRR = 0.1 x IR, RL =  $100 \Omega$ .



#### **ORDERING INFORMATION**

Product No.◆	Package Type	Shipping Quantity
BAS19WS-T1	SOD-323	3000/Tape & Reel
BAS19WS-T3	SOD-323	10000/Tape & Reel
BAS20WS-T1	SOD-323	3000/Tape & Reel
BAS20WS-T3	SOD-323	10000/Tape & Reel
BAS21WS-T1	SOD-323	3000/Tape & Reel
BAS21WS-T3	SOD-323	10000/Tape & Reel

#### RECOMMENDED FOOTPRINT



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.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

**Phone:** 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

We power your everyday.

Products listed in **bold** are WTE **Preferred** devices.

T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.