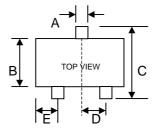


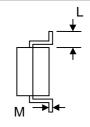
# **BAS19W - BAS21W**

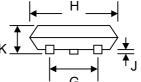
# SURFACE MOUNT FAST SWITCHING DIODE

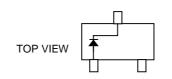
### **Features**

- High Conductance
- Fast Switching
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose and Switching
- Plastic Material UL Recognition Flammability Classification 94V-O









SOT-323				
Dim	Min	Max		
Α	0.30	0.40		
В	1.15	1.35		
С	2.00	2.20		
D	0.65 N	ominal		
Е	0.30	0.40		
O	1.20	1.40		
Н	1.80	2.20		
ſ	_	0.10		
K	0.90	1.10		
L	0.25	_		
M	0.05	0.15		
All Dimensions in mm				

## **Mechanical Data**

Case: SOT-323, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: See Diagram

Weight: 0.006 grams (approx.)

Mounting Position: Any

Marking: BAS19W A8

BAS20W A80 BAS21W A82

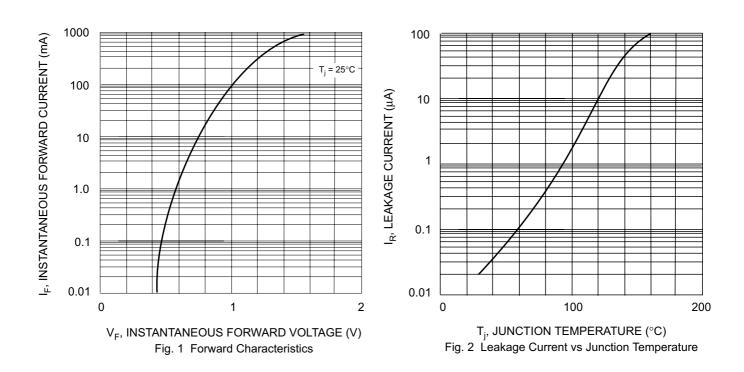
## 

Characteristic	Symbol	BAS19W	BAS20W	BAS21W	Unit
Non-Repetitive Peak Reverse Voltage		120	200	250	٧
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	100	150	200	V
Forward Continuous Current (Note 1)	lF	400			mA
Average Rectified Output Current (Note 1)	lo	200		mA	
Peak Forward Surge Current (Note 1) @ t = 1.0μs	IFSM		2.5		Α
Power Dissipation (Note 1)	Pd	200		mW	
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	R⊕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	Min	Max	Unit	Test Condition
Forward Voltage	VF		1.0 1.25	V	@ IF = 100mA @ IF = 200mA
Reverse Leakage Current	lR	_	100	nA	@ Rated DC Blocking Voltage
Junction Capacitance	Cj	_	5.0	pF	VR = 0V, f = 1.0MHz
Reverse Recovery Time	trr	_	50	nS	$\begin{aligned} \text{IF} &= \text{IR} = 30 \text{mA}, \\ \text{IRR} &= 0.1 \text{ x IR, } \text{RL} = 100 \Omega \end{aligned}$

Note: 1. Device mounted on fiberglass substrate 40 x 40 x 1.5mm.



#### **ORDERING INFORMATION**

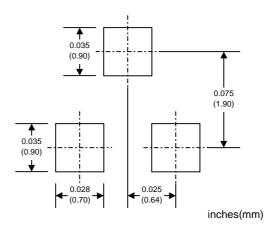
Product No.◆	Package Type	Shipping Quantity
BAS19W-T1	SOT-323	3000/Tape & Reel
BAS19W-T3	SOT-323	10000/Tape & Reel
BAS20W-T1	SOT-323	3000/Tape & Reel
BAS20W-T3	SOT-323	10000/Tape & Reel
BAS21W-T1	SOT-323	3000/Tape & Reel
BAS21W-T3	SOT-323	10000/Tape & Reel

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.

#### 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.

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We power your everyday.