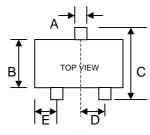


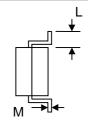
BAS19 - BAS21

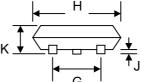
SURFACE MOUNT FAST SWITCHING DIODE

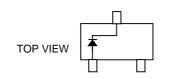
Features

- **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-23				
Dim	Min	Max		
Α	0.37	0.51		
В	1.19	1.40		
С	2.10	2.50		
D	0.89	1.05		
Е	0.45	0.61		
G	1.78	2.05		
Н	2.65	3.05		
J	0.013	0.15		
K	0.89	1.10		
L	0.45	0.61		
M	0.076	0.178		
All Dimensions in mm				

Mechanical Data

Case: SOT-23, Molded Plastic

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

Polarity: See Diagram

Weight: 0.008 grams (approx.)

Mounting Position: Any Marking: BAS19 A8

> BAS20 A80 BAS21 A82

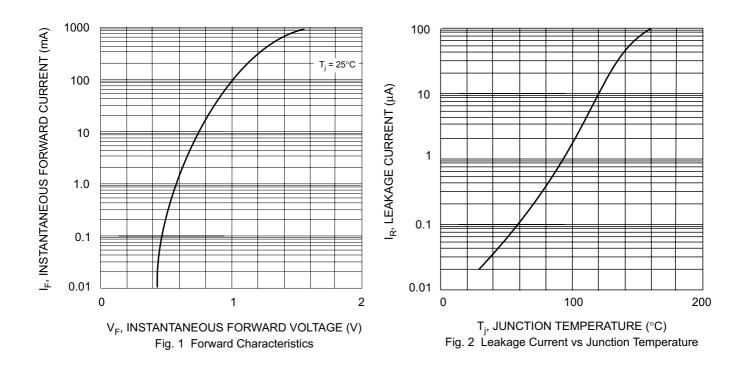
Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic		BAS19	BAS20	BAS21	Unit
Non-Repetitive Peak Reverse Voltage		120	200	250	V
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	350			mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	R_{θ} JA	500		K/W	
Operating and Storage Temperature Range		-65 to +150			°C

Electrical Characteristics @T_A=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	IF = IR = 30 mA, IRR = 0.1 x IR, RL = 100 Ω

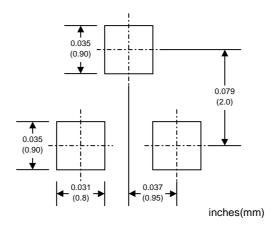
Note: 1. Device mounted on fiberglass substrate 40 x 40 x 1.5mm.



ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity
BAS19-T1	SOT-23	3000/Tape & Reel
BAS19-T3	SOT-23	10000/Tape & Reel
BAS20-T1	SOT-23	3000/Tape & Reel
BAS20-T3	SOT-23	10000/Tape & Reel
BAS21-T1	SOT-23	3000/Tape & Reel
BAS21-T3	SOT-23	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.

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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.