

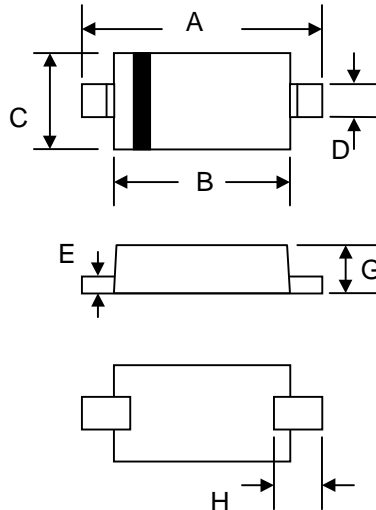


BAS19WS – BAS21WS

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
A	2.30	2.70
B	1.75	1.95
C	1.15	1.35
D	0.25	0.35
E	0.05	0.15
G	0.70	0.95
H	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_A=25°C unless otherwise specified

Characteristic	Symbol	BAS19WS	BAS20WS	BAS21WS	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	120	200	250	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	100	150	200	V
RMS Reverse Voltage	V _{R(RMS)}	70	105	140	V
Forward Continuous Current (Note 1)	I _F	400			mA
Average Rectified Output Current (Note 1)	I _O	200			mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0μs @ t = 1.0s	I _{FSM}	2.5 0.5			A
Power Dissipation	P _d	200			mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	R _{θJA}	625			K/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150			°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	BAS19WS	BAS20WS	BAS21WS	Unit
Forward Voltage Drop @ I _F = 100mA	V _{FM}	1.0			V
Peak Reverse Leakage Current @ Rated DC Blocking Voltage	I _{RM}	100			nA
Typical Junction Capacitance (V _R = 0V DC, f = 1.0MHz)	C _j	5.0			pF
Reverse Recovery Time (Note 2)	t _{rr}	50			nS

Note: 1. Valid provided that terminals are kept at ambient temperature.
2. Measured with I_F = I_R = 30mA, I_{RR} = 0.1 x I_R, R_L = 100Ω.

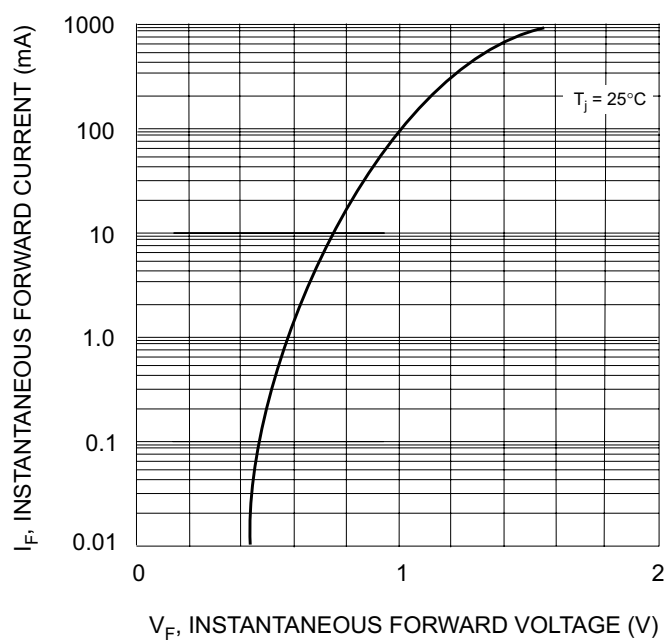


Fig. 1 Forward Characteristics

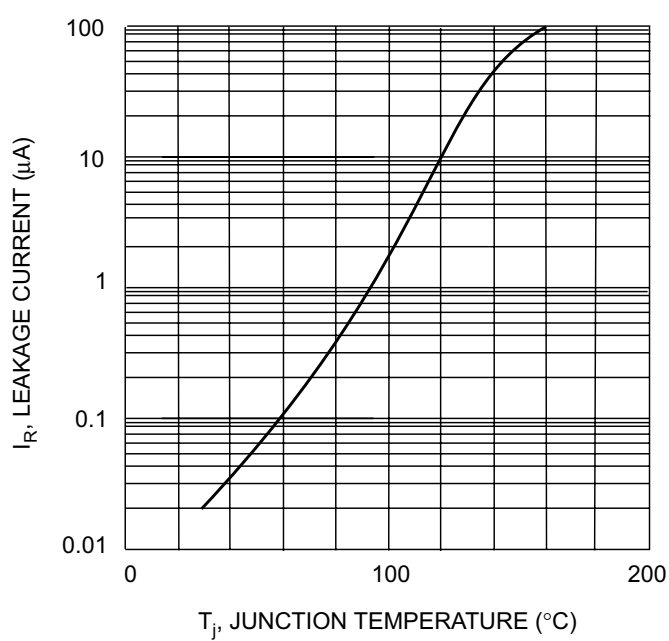


Fig. 2 Leakage Current vs Junction Temperature

ORDERING INFORMATION

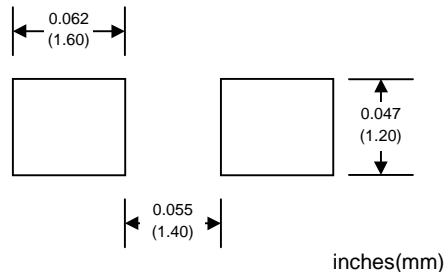
Product No. ♦	Package Type	Shipping Quantity
BAS19WS-T1	SOD-323	3000/Tape & Reel
BAS19WS-T3	SOD-323	10000/Tape & Reel
BAS20WS-T1	SOD-323	3000/Tape & Reel
BAS20WS-T3	SOD-323	10000/Tape & Reel
BAS21WS-T1	SOD-323	3000/Tape & Reel
BAS21WS-T3	SOD-323	10000/Tape & Reel

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



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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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We power your everyday.