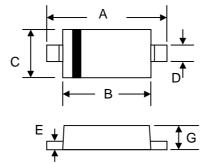


BAS19WS - BAS21WS

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_A=25°C unless otherwise specified

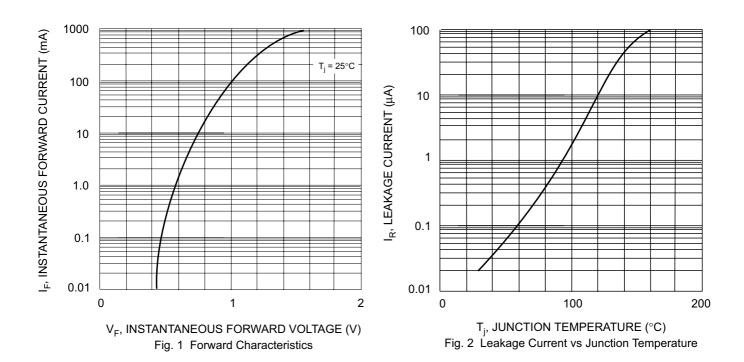
Characteristic	Symbol	BAS19WS	BAS20WS	BAS21WS	Unit
Non-Repetitive Peak Reverse Voltage	VRM	120	200	250	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	100	150	200	V
RMS Reverse Voltage	VR(RMS)	70	105	140	V
Forward Continuous Current (Note 1)	ļF		400		mA
Average Rectified Output Current (Note 1)	lo		200		mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0µ @ t = 1.0	I IESM		2.5 0.5		А
Power Dissipation	Pd		200		mW
Typical Thermal Resistance, Junction to Ambient Air (Note	1) R <i>θ</i> JA	625		K/W	
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +150		°C	

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic		Symbol	BAS19WS	BAS20WS	BAS21WS	Unit
Forward Voltage Drop	@ IF = 100mA	VFM		1.0		V
Peak Reverse Leakage Current @ Rated DC Blocking Voltage		I 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.

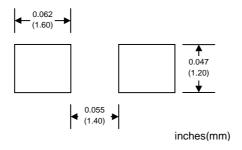
2. Measured with IF = IR = 30mA, IRR = 0.1 x IR, RL = 100Ω .



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



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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.

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.