imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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BAS21AHT1G

Low Leakage Switching Diode

Features

- NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC–Q101 Qualified and PPAP Capable
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant

MAXIMUM RATINGS

Symbol	Rating	Value	Unit
V _R	Continuous Reverse Voltage	250	Vdc
V _{RRM}	Repetitive Peak Reverse Voltage	250	Vdc
١ _F	Peak Forward Current	200	mAdc
I _{FM(surge)}	Peak Forward Surge Current	625	mAdc

THERMAL CHARACTERISTICS

Symbol	Characteristic	Мах	Unit
P _D	Total Device Dissipation FR–5 Board, (Note 1) $T_A = 25^{\circ}C$	200	mW
	Derate above 25°C	1.57	mW/°C
$R_{ heta JA}$	Thermal Resistance, Junction-to-Ambient	635	°C/W
T _J , T _{stg}	Junction and Storage Temperature Range	-55 to +150	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

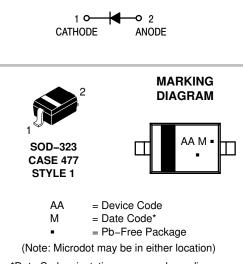
1. FR-5 Minimum Pad



ON Semiconductor®

http://onsemi.com

LOW LEAKAGE SWITCHING DIODE



*Date Code orientation may vary depending upon manufacturing location.

ORDERING INFORMATION

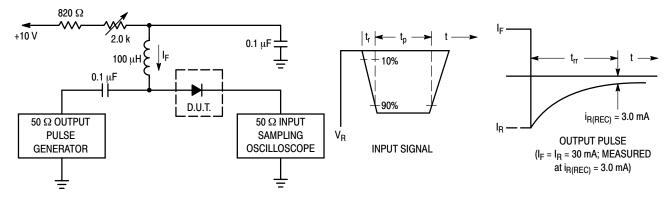
Device	Package	Shipping [†]
BAS21AHT1G	SOD-323 (Pb-Free)	3000/Tape & Reel
NSVBAS21AHT1G	SOD-323 (Pb-Free)	3000/Tape & Reel

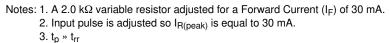
+For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

BAS21AHT1G

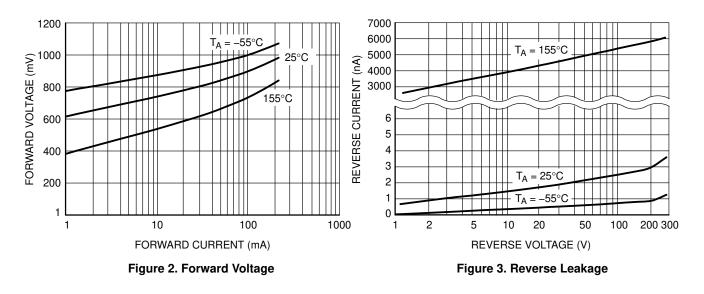
ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Characteristic	Symbol	Min	Тур	Max	Unit			
OFF CHARACTERISTICS								
Reverse Voltage Leakage Current ($V_R = 200 \text{ Vdc}$) ($V_R = 200 \text{ Vdc}, T_J = 150^{\circ}\text{C}$)	I _R			40 100	nAdc μAdc			
Reverse Breakdown Voltage (I _{BR} = 100 μAdc)	V _(BR)	250	-	-	Vdc			
Forward Voltage (I _F = 100 mAdc) (I _F = 200 mAdc)	V _F			1000 1250	mV			
Diode Capacitance $(V_R = 0, f = 1.0 \text{ MHz})$	CD	-	-	5.0	pF			
Reverse Recovery Time ($I_F = I_R = 30$ mAdc, $R_L = 100 \Omega$)	t _{rr}	-	50	-	ns			





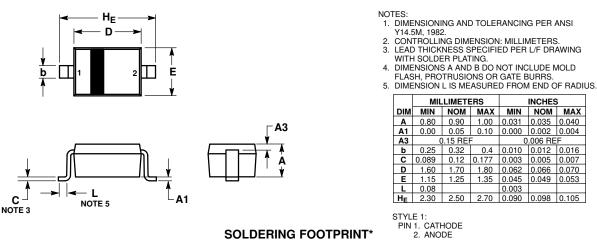




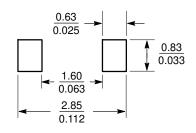
BAS21AHT1G

PACKAGE DIMENSIONS

SOD-323 CASE 477-02 ISSUE H



SOLDERING FOOTPRINT*



*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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