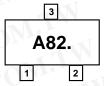


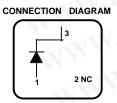
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BAS21







General Purpose High Voltage Diode

Sourced from Process 1H. See MMBD1401 for characteristics.

Absolute Maximum Ratings*

TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
W _{IV}	Working Inverse Voltage	250	V
Io	Average Rectified Current	200	mA
I _F	DC Forward Current	600 mA	
İf	Recurrent Peak Forward Current	700	mA
i _{f(surge)}	Peak Forward Surge Current Pulse width = 1.0 second Pulse width = 1.0 microsecond	1.0 2.0	A
T _{stg}	Storage Temperature Range	-55 to +150	°C
TJ	Operating Junction Temperature	150	°C

- These ratings are based on a maximum junction temperature of 150 degrees C.
 These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations

Thermal Characteristics

TA = 25°C unless otherwise noted

Symbol	Characteristic	Max	Units	
<1 CU		BAS21		
P_D	Total Device Dissipation	350	mW	
	Derate above 25°C	2.8	mW/°C	
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	357	°C/W	

General Purpose High Voltage Diode

WWW.100

WWW.1 OY.C

WWW

WV

Electrical Characteristics

Y.COM.T

OOY.COM

NWW.100

WWW.10

WWW

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Symbol	Parameter	Test Conditions	Min	Max	Units
B _V	Breakdown Voltage	$I_R = 100 \mu A$	250	001	V
I _R	Reverse Voltage Leakage Current	$V_R = 200 \text{ V}$ $V_R = 200 \text{ V}, T_A = 150 \text{ °C}$		100 100	nA μA
V _F	Forward Voltage	I _F = 100 mA I _F = 200 mA	- XI	1.0 1.25	V
Co	Diode Capacitance	V _R = 0, f = 1.0 MHz		5.0	pF
T _{RR}	Reverse Recovery Time	$I_F = I_R = 30 \text{ mA}, I_{RR} = 3.0 \text{ mA},$ $R_L = 100 \Omega$		50	nS

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UltraFET®

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition		
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.		
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.		
No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.		
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