

## High Voltage Switching Diodes

## BAS21H

### FEATURES

- Fast switching
- Designed for surface mount application
- Plastic material-UL recognition flammability
- MSL 1

HF

1 CATHODE ← ANODE 2



SOD-323

### APPLICATIONS

- Surface mount fast switching diode

### ORDERING INFORMATION

Type No.	Marking	Package Code
BAS21H	JS	SOD-323

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Continuous Reverse Voltage	$V_R$	250	V
Repetitive Peak Reverse Voltage	$V_{RRM}$	250	V
Forward Continuous Current	$I_F$	200	mA
Peak forward surge current	$I_{FSM}$	625	mA
Power Dissipation	$P_D$	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	635	°C/W
Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150	°C

### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	250	-	V	$I_R=100\mu A$
Forward Voltage	$V_F$	-	1000 1250	mV	$I_F=100mA$ $I_F=200mA$
Reverse Current	$I_R$	-	0.1 100	$\mu A$	$V_R=200V$ $V_R=200V, T_J=150^\circ C$
Diode Capacitance	$C_D$	-	5	pF	$V_R=0, f=1.0MHz$
Reverse Recovery Time	$t_{rr}$	-	50	ns	$I_F=I_R=30mA, R_L=100\Omega$

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TYPICAL CHARACTERISTICS @  $T_a=25^\circ\text{C}$  unless otherwise specified

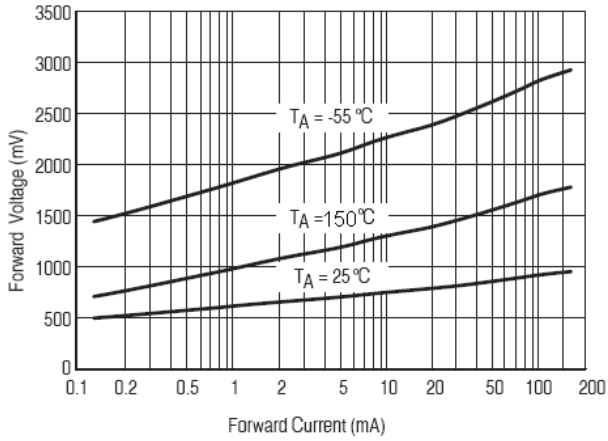


Figure 1. Forward Voltage

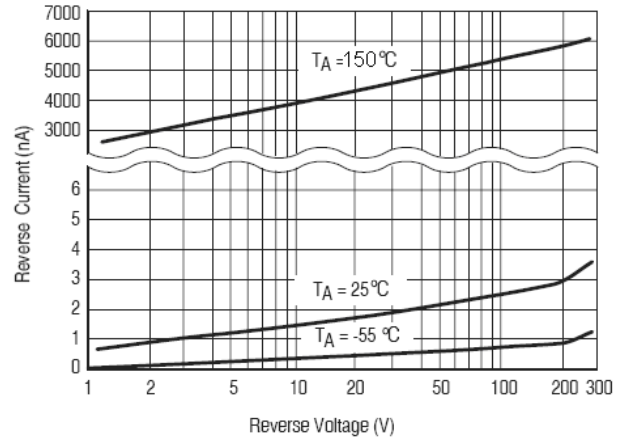


Figure 2. Reverse Leakage

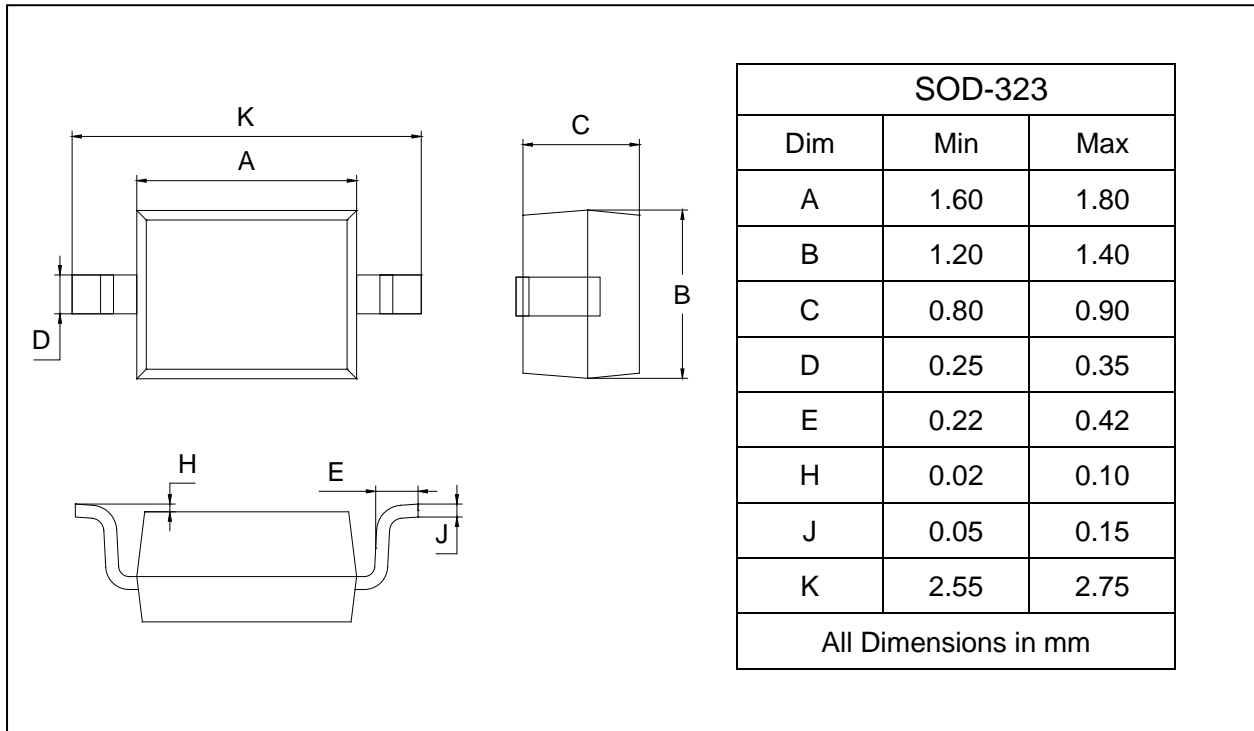
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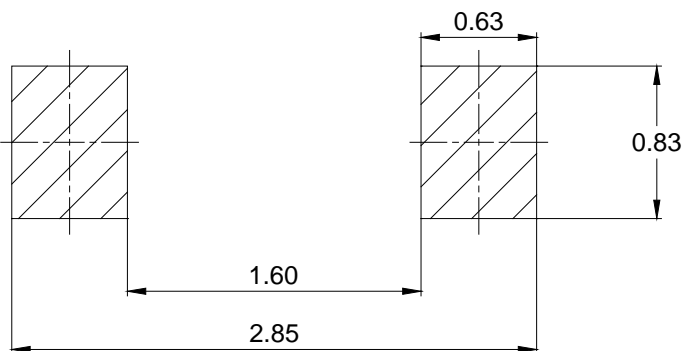
### PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



### SOLDERING FOOTPRINT



Unit: mm

### PACKAGE INFORMATION

Device	Package	Shipping
BAS21H	SOD-323	3000pcs / Tape & Reel