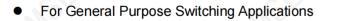


# **FEATURES**

- Fast Switching Speed.
- Surface Mount Package Ideally Suited For Automatic Insertion



High Conductance



SOD-323

## **APPLICATIONS**

Surface mount fast switching diode



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

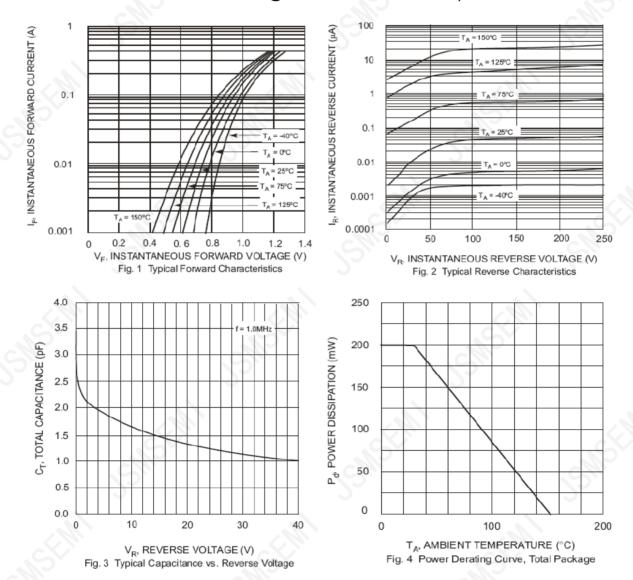
Characteristic	Symbol	BAS321-JSM	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	250	V
Working Peak Reverse Voltage	$V_{RWM}$	200	\/
DC Reverse Voltage	$V_R$	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	141	V
Forward Continuous Current	I <sub>FM</sub>	400	mA
Average Rectified Output Current	Io	200	mA
Non-Repetitive Peak Forward Surge Current			
@t=1.0 μs	I <sub>FSM</sub>	2.5 0	
@t=1.0 s		.5	
Repetitive Peak Forward Surge Current	I <sub>FRM</sub>	625	mA
Power Dissipation	P <sub>d</sub>	200	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	625	°C/W
Operating and Storage Temperature Rage	$T_j, T_{STG}$	-65 to+150	$^{\circ}$ C



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

Characteristic	Symbol	Min	Max	Unit	Test Condition
Forward Voltage	V <sub>FM</sub>	- 5	1.0 1.25	V	I <sub>F</sub> =100mA I <sub>F</sub> =200mA
Reverse Current	I <sub>R</sub>	-	0.1	μΑ	V <sub>R</sub> =200V
Capacitance between terminals	Ст	-	5	pF	V <sub>R</sub> =0,f=1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	-	50	ns	$I_F=I_R=30\text{mA},$ $I_m=0.1\times I_R, R_L=100\Omega$

# TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

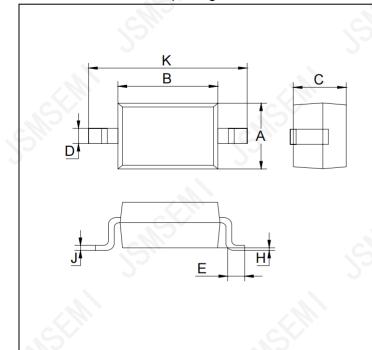




# PACKAGE OUTLINE

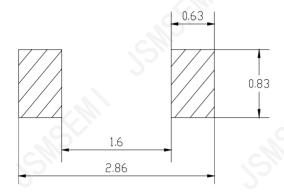
## Plastic surface mounted package

SOD-323



SOD-323				
Dim	Min	Max		
A	1.275	1.325		
В	1.675	1.725		
С	0.9 Typical			
D	0.25	0.35		
Е	0.27	0.37		
Н	0.02	0.1		
J	0.1 Typical			
K	2.6	2.7		
All Dimensions in mm				

# **SOLDERING FOOTPRINT**



Unit: mm

# PACKAGE INFORMATION

Device	Package	Shipping
BAS321-JSM	SOD-323	3000/Tape&Reel



#### **Revision History**

Rev.	Change	Date
V1.0	Initial version	2/23/2024

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