



Micro Commercial Components



Micro Commercial Components  
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## Features

- Halogen free available upon request by adding suffix "-HF"
- For Surface Mount Application.
- Device Marking: JS
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- For Surface Mount Application.
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)

## Maximum Ratings

Symbol	Rating	Value	Unit
$V_R$	Continuous Reverse Voltage	250	Vdc
$I_F$	Peak Forward Current	200	mAdc
$I_{FM(surge)}$	Peak Forward Surge Current	625	mAdc

## Thermal Characteristics

Symbol	Characteristic	Max	Unit
$P_D$	Total Device Dissipation FR-5 Board *, $T_A=25^\circ\text{C}$ Derate above $25^\circ\text{C}$	200 1.57	mW mW/ $^\circ\text{C}$
$R_{JA}$	Thermal Resistance Junction to Ambient	635	$^\circ\text{C}/\text{W}$
$T_J, T_{STG}$	Junction and Storage Temperature Range	-55 to +155	$^\circ\text{C}$

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Characteristic	Min	Max	Unit
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## Off Characteristics

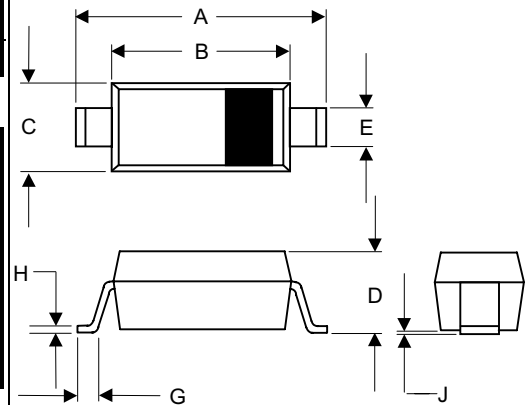
$I_R$	Reverse Voltage Leakage Current ( $V_R=200\text{Vdc}$ ) ( $V_R=200\text{Vdc}, T_J=150^\circ\text{C}$ )	---	0.1 100	$\mu\text{Adc}$
$V_{(BR)}$	Reverse Breakdown Voltage ( $I_{BR}=100\mu\text{Adc}$ )	250	---	Vdc
$V_F$	Forward Voltage ( $I_F=100\text{mAdc}$ ) ( $I_F=200\text{mAdc}$ )	---	1000 1250	mVdc
$C_D$	Diode Capacitance ( $V_R=0, f=1.0\text{MHz}$ )	---	5.0	pF
$t_{rr}$	Reverse Recovery Time ( $I_F=I_R=30\text{mAdc}, R_L=100\text{ OHM}$ )	---	50	ns

\*FR-5 Minimum Pad

# BAS21WS

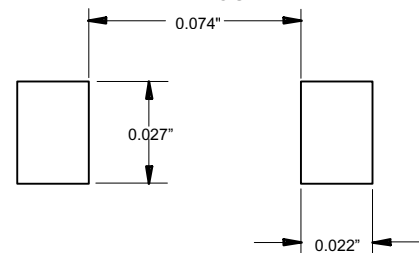
## High Voltage Switching Diode

## SOD-323



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

### SUGGESTED SOLDER PAD LAYOUT





TM

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**Ordering Information :**

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

# AMEYA360

## Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit [www.ameya360.com](http://www.ameya360.com)

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