

# BAS70WX

## Surface Mount Schottky Barrier Diode 200mW

### Features

- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)
- Fast Switching Speed
- Low Turn-on Voltage
- Surface Mount Package Ideally Suited for Automatic Insertion
- PN Junction Guard Ring for Transient and ESD Protection
- Halogen free available upon request by adding suffix "-HF"

### Mechanical Data

- Marking :K73
- Polarity: Indicated by Cathode Band
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

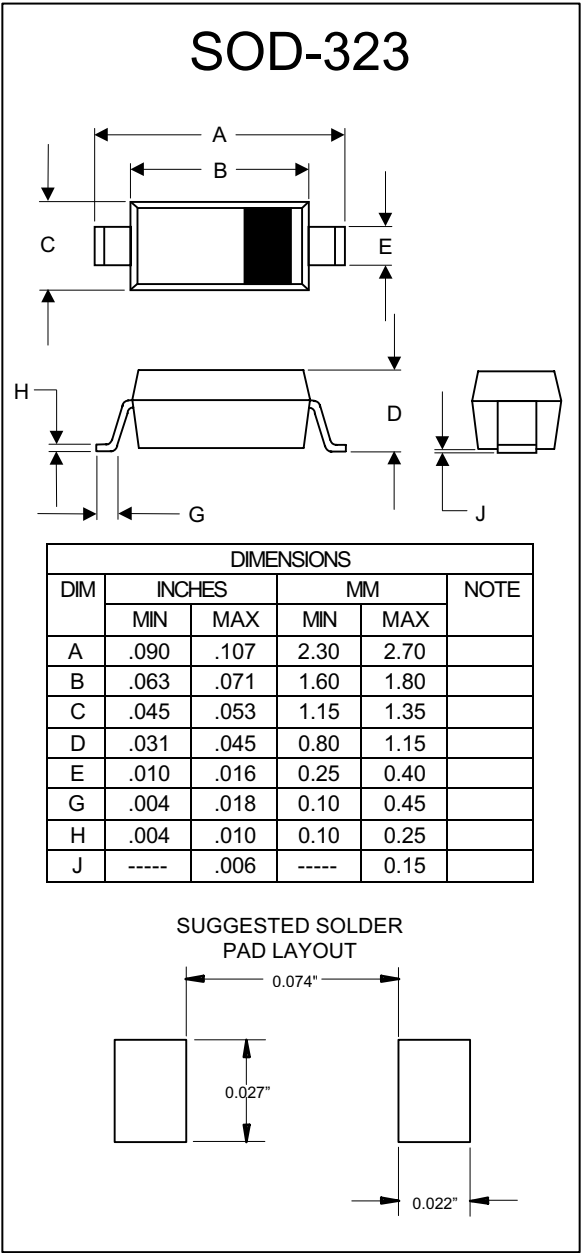
### Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$		
Working Peak Reverse Voltage	$V_{RWM}$	70	V
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	49	V
Forward Continuous Current(Note1)	$I_F$	70	mA
Forward Surge Current @ $t < 1.0s$	$I_{FSM}$	100	mA
Power Dissipation(Note 1)	$P_d$	200	mW
Thermal Resistance(Note 1)	R	625	K/W
Operation Temp. Range	$T_j$	-55 to +125	°C
Storage Temp. Range	$T_{STG}$	-65 to +150	°C

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Min	Max	Unit	Test Cond.
Forward Voltage	$V_F$	-----	0.41 1	V	$t_p < 300us$ $I_F = 1.0mA$ $t_p < 300us$ $I_F = 15mA$
Reverse Leakage Current	$I_R$	-----	100	nA	$t_p < 300us$ $V_R = 50V$
Junction Capacitance	$C_j$	-----	2	pF	$V_R = 0V$ , $f = 1.0MHz$
Reverse Recovery Time	$t_{rr}$	-----	5	ns	$I_F = I_R = 10mA$ $I_R = 1.0mA$ , $R_L = 100OHM$

Notes: 1. Valid provided that terminals are kept at ambient temperature.





Micro Commercial Components

### Ordering Information :

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

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

#### \*\*\*IMPORTANT NOTICE\*\*\*

**Micro Commercial Components Corp.** reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . **Micro Commercial Components Corp .** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp .** and all the companies whose products are represented on our website, harmless against all damages.

#### \*\*\*LIFE SUPPORT\*\*\*

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

#### \*\*\*CUSTOMER AWARENESS\*\*\*

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.

[www.mccsemi.com](http://www.mccsemi.com)