

**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

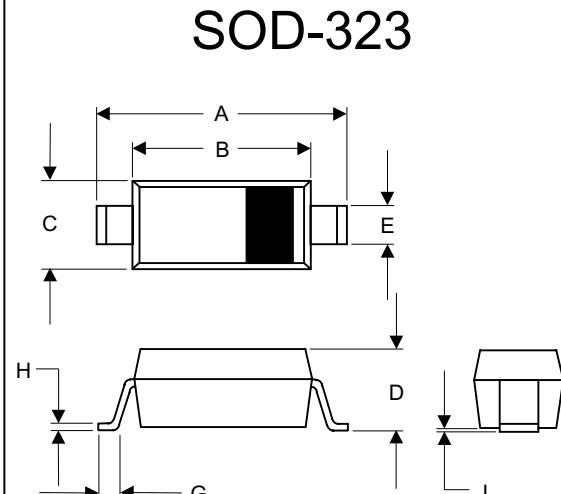
Maximum Ratings @ 25°C Unless Otherwise Specified

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

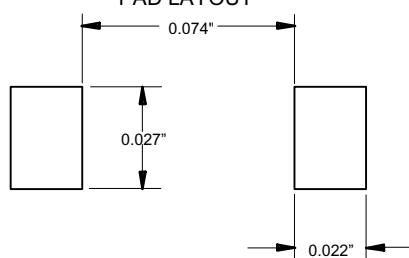
Electrical Characteristics @ 25°C Unless Otherwise Specified

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

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



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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