

70mA Surface Mount Small Signal Diodes

■ Features

- · Low current rectification and high speed switching.
- · Small surface mount type.
- Up to 70mA current capability.
- Low forward voltage drop (VF = 1.00V typ. @15mA)
- Silicon epitaxial planar chip, metal silicon junction.
- Suffix "G" indicates Halogen-free part, ex.BAS70WSG.
- Lead-free parts for green partner, exceeds environmental standards of MIL-STD-19500 /228
- High speed (trr < 5 ns)

■ Mechanical data

• Epoxy:UL94-V0 rated flame retardant

· Case: Molded plastic, SOD-323

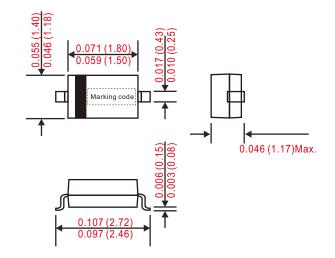
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

• Polarity : Indicated by cathode band

• Weight: 0.0002 ounce, 0.005 gram

Outline

SOD-323



Dimensions in inches and (millimeters)

■ Maximum ratings and electrical characteristics

Rating at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		BAS70WS	UNIT
Marking code		K73	UNII
Peak Repetitive Reverse Voltage	V _{RRM}	V _{RRM} V _{RRM} V _R 70	
Work Peak Reverse Voltage	V _{RRM}		
DC Reverse Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	49	
Forward Continuous Current(1)	I _{F(AV)}	70	mAdc
Non-Repetitive Peak Forward Surge Current @tp < 1.0s	I _{FSM}	100	mAdc
Power Dissipation(1)	P _D	200	mW
Thermal Resistance Junction to Ambient Air	R _{eJA}	625	°C/W
Junction and Storage Temperature	T_{J},T_{STG}	-55 ~ +150	°C

			1	1	
Characteristic		Symbol	MIN.	MAX.	UNIT
Reverse Breakdown Voltage	$I(_{BR}) = 10uAdc$	$V_{(BR)}$	70		Vdc
Reverse Voltage Leakage Current	$V_R = 50 Vdc$	I _R		0.1	uAdc
Total Capacitance	$V_{R} = 0$, $f = 1.0MHz$	C _D		2.0	pF
Forward Voltage	$I_F = 1.0 \text{mAdc}$	V _F		410	
	$I_F = 15 \text{mAdc}$			1000	mVdc
Reverse Recovery Time $I_F = I_R = 10 \text{mAdc}$,	$V_R = 5.0 \text{Vdc}, I_{R(REC)} = 1.0 \text{mAdc}, R_L = 100 \Omega$	trr		5.0	nS

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

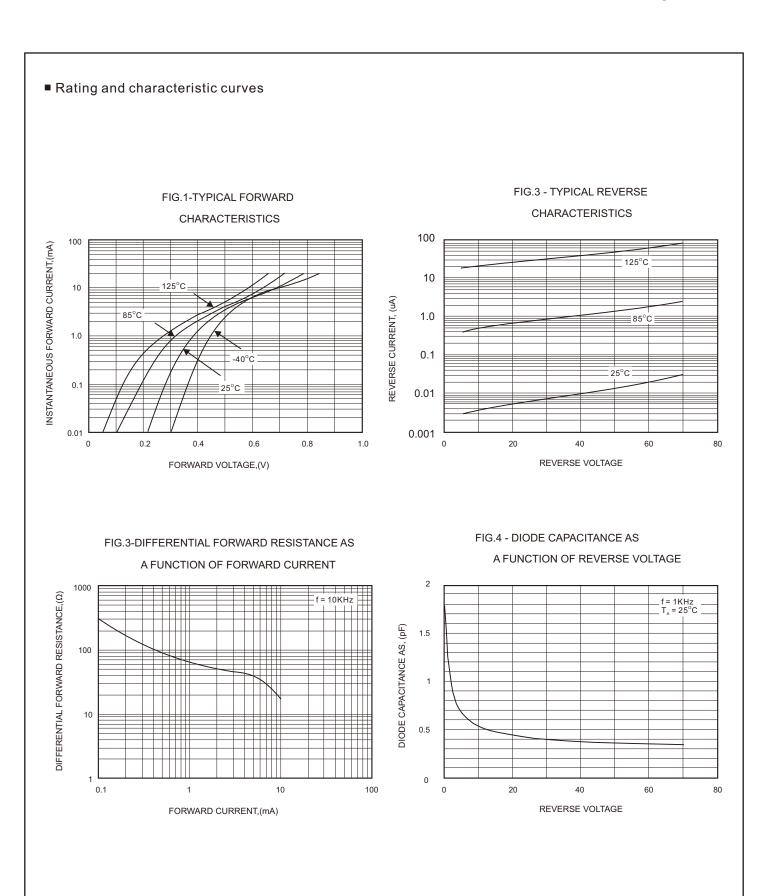
2.Test period < 300us.

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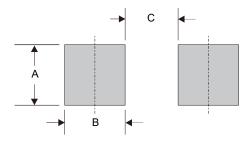
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■ SOD-323 foot print



А	В	С
0.059 (1.50)	0.039 (1.00)	0.051 (1.30)

Dimensions in inches and (millimeters)

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