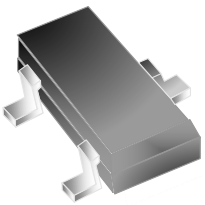
BAS70 Series

General-Purpose Schottky Diode

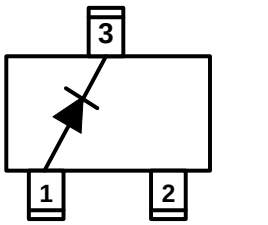
Features

- Low Forward Voltage Schottky Rectifier
- High Conductance
- Low Current Leakage
- RoHS Compliant / Green EMC

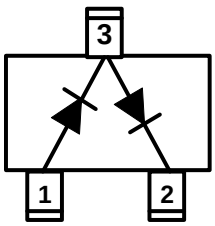


SOT-23

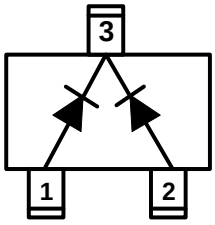
Schematic & PIN Configuration (Top View)



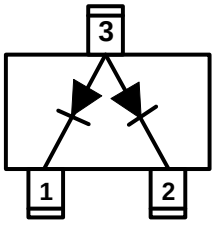
BAS70



BAS70-04



BAS70-05



BAS70-06

Absolute Maximum Rating (T_{amb}=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	70	V
Forward Continuous Current	I_F	70	mA
Power Dissipation	P_D	200	mW
Peak Forward Surge Current(t=1s,NON-Repetitive)	I_{FSM}	0.1	A
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	430	°C/W
Junction Temperature	T_J	125	°C
Storage Temperature	T_{stg}	-55 to 150	°C

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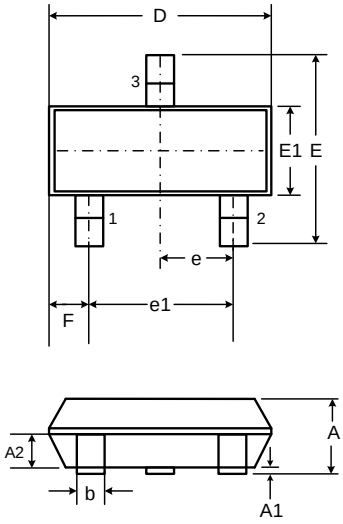
Electrical Characteristics (T_{amb}=25°C unless otherwise specified)

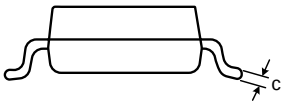
Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	I_R = 10μA	70	-	-	V
Reverse Voltage Leakage Current	I_R	V_R = 50V	-	-	200	nA
Forward Voltage	V_F	I_F = 1mA	-	-	0.41	V
		I_F = 15mA	-	-	1	
Diode Capacitance	C_D	V_R= 0, f= 1MHz	-	-	2	pF
Reverse Recovery Time	T_{rr}	I_F=I_R=10mA,I_{rr}=1mA	-	-	5	ns

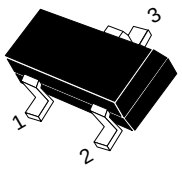
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Outline Drawing –SOT-23

PACKAGE OUTLINE

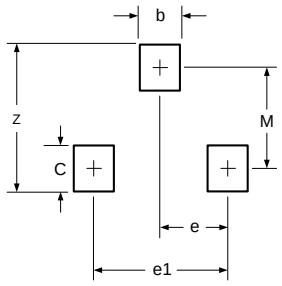






SOT-23

DIMENSIONS				
SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	0.90	1.11	0.035	0.044
A1	0.01	0.10	0.000	0.004
b	0.37	0.51	0.015	0.020
c	0.09	0.18	0.004	0.007
D	2.80	3.04	0.110	0.120
E	2.10	2.64	0.083	0.104
E1	1.20	1.40	0.047	0.055
e	0.89	1.03	0.035	0.041
e1	1.78	2.05	0.070	0.081
F	0.45	0.60	0.018	0.024

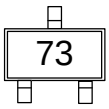
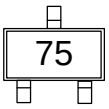
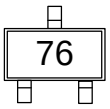


DIMENSIONS		
DIM	INCHES	MILLIMETERS
M	0.0795	2.02
C	0.0315	0.80
Z	0.111	2.82
e	0.037 BSC	0.95 BSC
e1	0.075 BSC	1.9 BSC
b	0.0315	0.80

Notes

1. Dimensioning and tolerances per ANSI Y14.5M, 1985.
2. Controlling Dimension: Inches
3. Pin 3 is the cathode (Unidirectional Only).
4. Dimensions are exclusive of mold flash and metal burrs.

Marking Codes

Part Number	BAS70	BAS70-04	BAS70-05	BAS70-06
Marking Code				

Package Information

Qty：3k/Reel

CONTACT INFORMATION

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For additional information, please contact your local Sales Representative.

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Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.