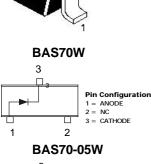
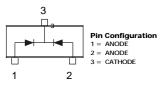
# SURFACE MOUNT SCHOTTKY BARRIER DIODES



BAS70W, BAS70-04W BAS70-05W, BAS70-06W

SOT-323 Formed SMD Package





#### Marking

BAS70W = 73 BAS70-04W = 74

BAS70-05W = 75

BAS70-06W = 76

# **Ultra High Speed Switching Diodes**

#### ABSOLUTE MAXIMUM RATINGS (per diode)

DESCRIPTION	SYMBOL	VALUE	UNIT
Continuous Reverse Voltage	V <sub>R</sub>	70	V
Continuous Forward Current	I <sub>F</sub>	70	mA
Repetitive Peak Forward Voltage $t_P \leq 1s$ ; $d \leq 0.5$	I <sub>FRM</sub>	70	mA
Non Repetitive Peak Forward Current tp=10ms	I <sub>FSM</sub>	100	mA
Storage Temperature	T <sub>stg</sub>	- 65 to +150	°C
Junction Temperature	Tj	150	°C
Operating Ambient Temperature	T <sub>amb</sub>	- 65 to +150	°C

**BAS70-04W** 

2

2 3

2

Pin Configuration 1 = ANODE 2 = CATHODE 3 = ANODE/

CATHODE

Pin Configuration 1 = CATHODE

= CATHODE

ANODE

3

**BAS70-06W** 

3

1

#### THERMAL RESISTANCE

Junction to Ambient in free air	*R <sub>th (j-a)</sub>	625	K/W

# \*Sot-323 standard mounting condition

ELECTRICAL CHARACTERISTICS	(T <sub>a</sub> =25 <sup>o</sup> C unless specified otherwise)	Per diode
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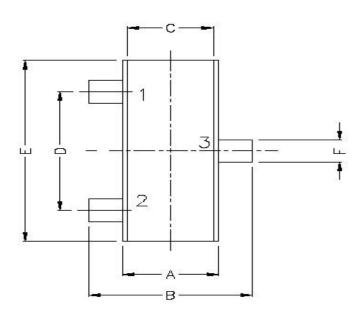
DESCRIPTION	SYMBOL	<b>TEST CONDITION</b>	MIN	MAX	UNIT
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =1mA		0.41	V
		I <sub>F</sub> =10mA		0.75	V
		I <sub>F</sub> =15mA		1.00	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =70V		10	μA
		V <sub>R</sub> =50V		0.1	μA
Change Carrier Life Time (Krakauer method)	t	I <sub>F</sub> =5mA		100	ps
Diode Capacitance	C <sub>d</sub>	V <sub>R</sub> =0V, f=1MHz		2.0	pF

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BAS70W, BAS70-04W BAS70-05W, BAS70-06W

SOT-323 Formed SMD Package





DIM	MIN	MAX
А	1.25	1.35
В	2.02	2.18
С	1.20	1.30
D	1.25	1.35
E	2.10	2.20
F	0.27	0.33
G	0.95	1.00
Н	0.35	4.00
J	0.09	0.15
К	0.25	0.33
L	0.00	0.10
М	R 0.15	R 0.20

# DIMENSIONS ARE IN mm

PACKING :- 3K/REEL

М

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Formed SMD Package

### **Component Disposal Instructions**

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

# Disclaimer

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