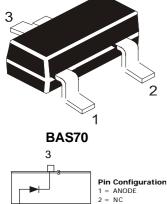
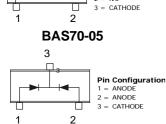
## SURFACE MOUNT SCHOTTKY DIODES





### Marking

BAS70 = 73 BAS70-04 = 74

BAS70-05 = 75 BAS70-06 = 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	۱ <sub>F</sub>	70	mA
Repetitive Peak Voltage t <sub>P</sub> <u>&lt;</u> 1s; <b>d</b> <u>&lt;</u> 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
Storage Temperature Range	T <sub>amb</sub>	- 65 to +150	°C

### THERMAL RESISTANCE

Junction to Ambient in free air		R <sub>th (j-a)</sub>	500		
	(T -250	C unloss a	specified otherwise)	Por diado	

**BAS70-04** 

3

BAS70-06

1

2

2

Pin Configuration 1 = ANODE

Pin Configuration 1 = CATHODE

2 = CATHODE 3 = ANODE

2 = CATHODE 3 = ANODE/ CATHODE

ELECTRICAL CHARACTERISTICS $(T_a=25)$	Per diode				
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	μΑ
		V <sub>R</sub> =50V		0.1	μA
Diode Capacitance	C <sub>d</sub>	V <sub>R</sub> =0V, f=1MHz		2.0	pF

### Pulse Test: $t_p$ =300ms; d=0.02

Continental Device India Limited

BAS70\_06Rev\_1 300606E

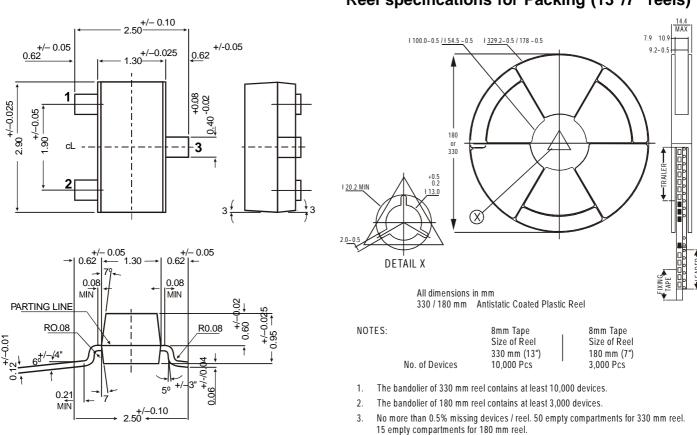


# BAS70, BAS70-04 BAS70-05, BAS70-06

SOT-23 Formed SMD Package

K/W

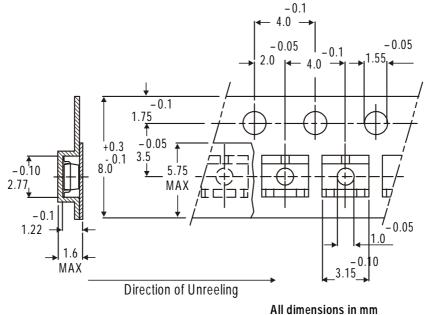
**SOT-23** Formed SMD Package



SOT-23 Formed SMD Package

- 4. Three consecutive empty places might be found provided this gap is followed by 6 consecutive devices. 5. The carrier tape (leader) starts with at least 75 empty positions (equivalent to 330
- mm). In order to fix the carrier tape a self adhesive tape of 20 to 50 mm is applied. At the end of the bandolier at least 40 empty positions (equivalent to 160 mm) are there.

# **Tape Specification for SOT-23 Surface Mount Device**



**SOT-23 Package Reel Information** Reel specifications for Packing (13"/7" reels)

# Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
SOT-23 T&R	3K/reel	136 gm/3K pcs	3" x 7.5" x 7.5" 9" x 9" x 9"	12.0K 51.0K	17" x 15" x 13.5" 19" x 19" x 19"	192.0K 408.0K	12 kgs 28 kgs
	10K/reel	415 gm/10K pcs	13" x 13" x 0.5"	10.0K	17" x 15" x 13.5"	300.0K	16 kgs

### **Customer Notes**

### **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

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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