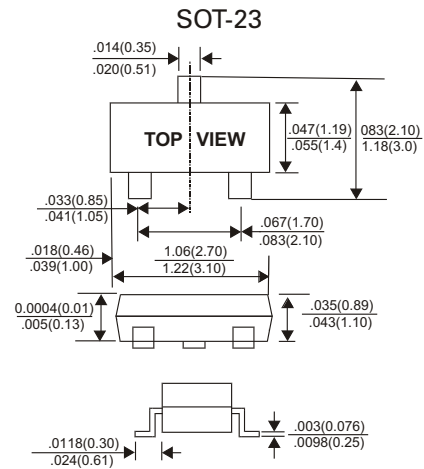


# BAS70/BAS70-04 BAS70-05/BAS70-06

## SURFACE MOUNT SCHOTTKY BARRIER DIODES

SMALL SIGNAL SCHOTTKY DIODES 200m AMPERES 70 VOLTS

 Lead(Pb)-Free



### FEATURES

- \*Extremely Fast Switching Speed
- \*Low Forward Voltage
- \*Very Small Conduction Losses
- \*Schottky Barrier Diodes Encapsulated in a SOT-23 Package

### DESCRIPTION

These schottky barrier diodes are designed for high speed switching applications circuit protection, and voltage clamping, Extremely low forward voltage reduces conduction loss, Miniature surface mount package is excellent for hand held and portable applications where space is limited.

# BAS70/BAS70-04 BAS70-05/BAS70-06

## SURFACE MOUNT SCHOTTKY BARRIER DIODES

**SMALL SIGNAL SCHOTTKY DIODES 200m AMPERES 70 VOLTS**

### Maximum Ratings (T<sub>J</sub>=125°C Unless otherwise noted)

Characteristic	Symbol	Value	Unit
Reverse Voltage	V <sub>R</sub>	70	Volts
Average Rectifier Forward Current	I <sub>F(AV)</sub>	200	mA
Peak Repetitive Forward Current Rated V <sub>R</sub> , Square Wave, 20KHz	I <sub>FRM</sub>	200	mA
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +125	°C
Storage Temperature Range	T <sub>stg</sub>	-55 to +150	°C

### Electrical Characteristics (T<sub>A</sub>=25°C Unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
Reverse Breakdown Voltage (I <sub>R</sub> =100μA)	V <sub>(BR)R</sub>	70		Volts
Forward Voltage I <sub>F</sub> =1.0mA I <sub>F</sub> =15mA	V <sub>F</sub>		0.41 1.00	Volts
Total Capacitance (V <sub>R</sub> =0V, f=1.0MHz)	C <sub>T</sub>		2	PF
Reverse Leakage V <sub>R</sub> =50V	I <sub>R</sub>		0.1	μA <sub>dc</sub>
Reverse Recover Time I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>R(Rec)</sub> =1.0mA	T <sub>rr</sub>		5.0	nS

### Device Marking

Item	Marking	Equivalent Circuit diagram
BAS70	73	
BAS70-05	75	
BAS70-06	76	
BAS70-04	74	