



# **DATA SHEET**

# BAS70/A/C/S

# SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 70 Volts CURRENT 0.2 Ampers

### **FEATURES**

- Fast switching speed
- Surface mount package ideally suited for automatic insertion Electrical identical standard JEDEC
- High conductor
- Both normal and Pb free product are available :

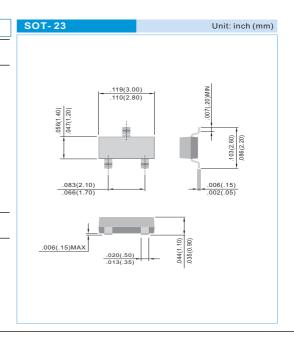
Normal : 80~95% Sn, 5~20% Pb Pb free: 98.5% Sn above

## **MECHANICAL DATA**

Case: SOT-23, Plastic

Terminals: Solderable per MIL-STD-202, Method 208

Approx. Weight: 0.008 gram Marking: A70,A72,A73,A74

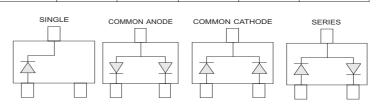


### **ABSOLUTE RATINGS**

PARAMETER	Sym bol	BAS70	BAS70A	BAS70C	BAS70S	Units
Reverse Volage	VR	70				V
Peak Reverse Volage	Vrrm	70				V
Average Rectified CumentatTem p=25°C	Io	0.2			A	
Non-repetitive Peak Forward Surge Cumentatt=10 s	₽sм	0.6			A	

#### THERMAL CHARACTERISTICS

PARAMETER	Sym bol	BAS70	BAS70A	BAS70C	BAS70S	Units
PowerD issipation	Ртот		m W			
Therm alResistance , Junction to Ambient	R <b>0</b> JA		°C M			
Junction Tem perature	Тī		°C			
S torage Tem perature at Tem p=25°C	TETG		°C			
C ircuit Figure		SINGLE	COMMON ANODE	COMMON CATHODE	SERES	







# **ELECTRICAL CHARACTERISTICS**

PARAMETER	Sym bol	TestC ond ition	M IN .	TYP.	MAX.	Units
Reverse Breakdown Voltage	V (BR)	E=10 uA	70	-	_	V
Reverse Cument	Ir	V <sub>R</sub> =70 V V <sub>R</sub> =50 V	_	-	1.0 0.1	uA
Forward Voltage	VF	F=1.0m A F=10m A F=15m A	_	-	0.41 0.75 1.00	V
Maximum Junction Capacitance	Сл	VR=0V, f=1.0M Hz	_	-	2.0	pF

#### **ELECTRICAL CHARACTERISTICS CURVE**

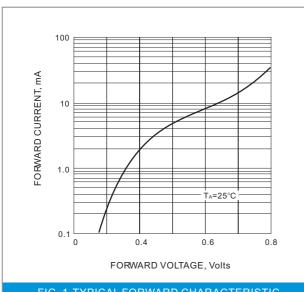


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

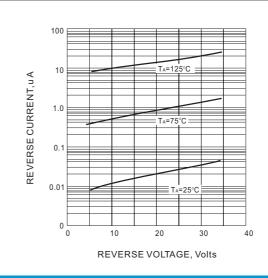
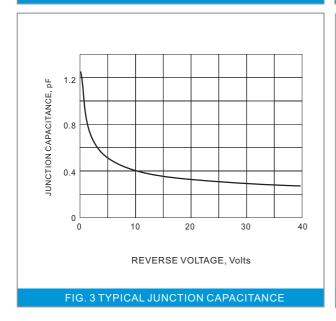
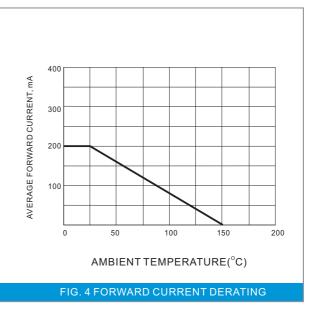


FIG. 2-TYPICAL REVERSE CHARACTERISTICS



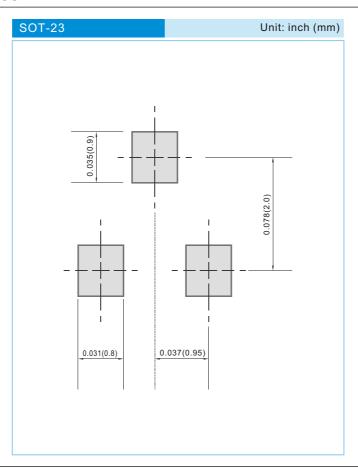


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#### **MOUNTING PAD LAYOUT**



#### ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 3.0K per 7" plastic Reel

## **LEGAL STATEMENT**

# IMPORTANT NOTICE

This information is intended to unambiguously characterize the product in order to facilitate the customer's evaluation of the device in the application. The information will help the customer's technical experts determine that the device is compatible and interchangeable with similar devices made by other vendors. The information in this data sheet is believed to be reliable and accurate. The specifications and information herein are subject to change without notice. New products and improvements in products and product characterization are constantly in process. Therefore, the factory should be consulted for the most recent information and for any special characteristics not described or specified.

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