



# 1. DATA SHEET

# BAV70

### SURFACE MOUNT SWITCHING DIODES

POWER 250mWatts VOLTAGE 75 Volts

#### **FEATURES**

- · Fast switching speed.
- · Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance
- Both normal and Pb free product are available :

Normal: 80~95% Sn, 5~20% Pb

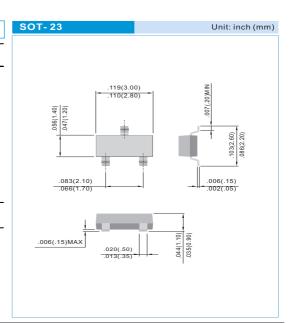
Pb free: 99% Sn above can meet Rohs environment substance directive request

#### **MECHANICAL DATA**

Case: SOT-23, Plastic

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

Approx. Weight: 8mg Marking Code: JA



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	BAV70	UNITS
Reverse Voltage	VR	75	V
Peak Reverse Voltage	VRM	100	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f >=50 Hz	lo	150	mA
Peak Forward Surge Current,1.0us	lгsм	2.0	А
Power Dissipation Derate Above 25°C	Ртот	250	mW
Maximum Forward Voltage	VF	0.715 @ IF=0.001A 0.855 @ IF=0.01A 1.0 @ IF=0.05A 1.25 @ IF=0.15A	V
Maximum DC Reverse Current at 25V 75V	lR	0.03 2.5	μА
Maximum Junction Capacitance( Notes 1)	Сл	1.5	pF
Maximum Reverse Recovery Time (Notes 2)	TRR	4.0	ns
Maximum Thermal Resistance	RθJA	625	°C/W
Junction Temperature Range	TJ	-55 TO +150	°C

NOTE:

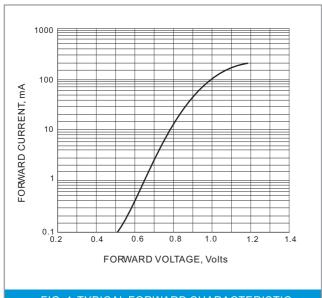
1. CJ at VR=0, f=1MHZ

2.From IF=10mA to IR=1mA, VR=6Volts, RL=100 $\Omega$ 









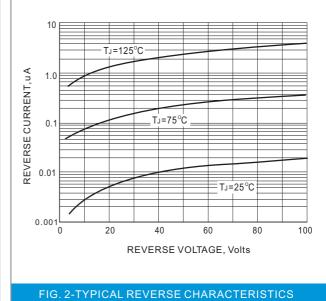
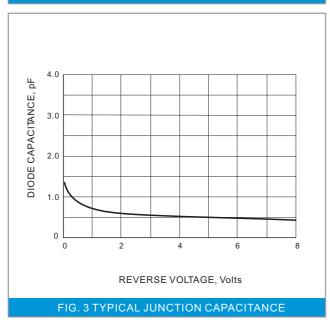
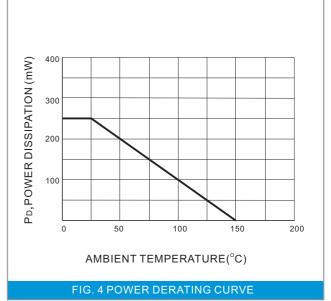


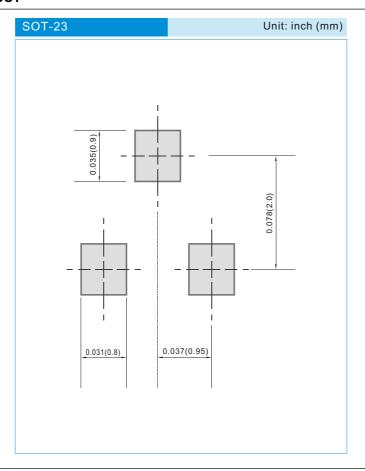
FIG. 1-TYPICAL FORWARD CHARACTERISTIC







#### 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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