SANYO SEMICONDUCTOR CORP

7997076 0008820 4 🛤



PNP Epitaxial Planar Silicon Transistor

9-15

## **Very Low-Noise Amp Applications**

## ©371D

The 2SA929, 930 are transistors for very low noise AF amp. They are especially suited for use in the first stage of equalizer amp. in high-grade stereo sets. It is possible to form a complementary pair with NPN type 2SC1570.

35E D

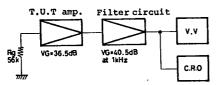
2003A

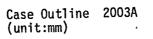
Absolute Maximum Ratings at T <sub>a</sub> Collector to Base Voltage Collector to Emitter Voltage Emitter to Base Voltage Collector Current Collector Dissipation Junction Temperature Storage Temperature	V <sub>CBO</sub>	25A929 -55 -50 -50 200 125 -55 to +125	5 5	I	vit V V mA mW °C			
Electrical Characteristics at Collector Cutoff Current Emitter Cutoff Current Collector to Base Breakdown Voltage Collector to Emitter Breakdown Voltage Emitter to Base Breakdown	I <sub>CBO</sub> I <sub>EBO</sub>	$V_{CB}$ =-30V, $I_{E}$ =0 $V_{EB}$ =-4V, $I_{C}$ =0 $I_{C}$ =-10uA, $I_{E}$ =0 $I_{C}$ =-1mA, $R_{BE}$ = $\infty$ $I_{E}$ =-10uA, $I_{C}$ =0	25A929 25A930 25A929 25A930	min -55 -40 -50 -35 -5	typ	max -0.1 -0.1	unit uA V V V V V	
Voltage DC Current Gain Gain-Bandwidth Product Output Capacitance Collector to Emitter Saturation Voltage Output Noise Voltage	hFE f <sub>T</sub> cob VCE(sat) V <sub>NO</sub> V <sub>NO</sub> (peak)	$V_{CE}=-6V, I_{C}=-1m$ $V_{CE}=-6V, I_{C}=-1m$ $V_{CB}=-6V, f=1MHz$ $I_{C}=-50mA, I_{B}=-5$ $V_{CC}=-30V, I_{C}=-1$ Rg=56kohm, VG=7 Same as above	na Sima		80 5	960* -0.5 35 ,200	MHz pF V mV mV	

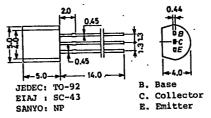
\* The 2SA929,930 are classified as follows according to  $h_{\rm FE}$  at lmA.

160 F 320 280 G 560 480 H 960

Noise Test Circuit

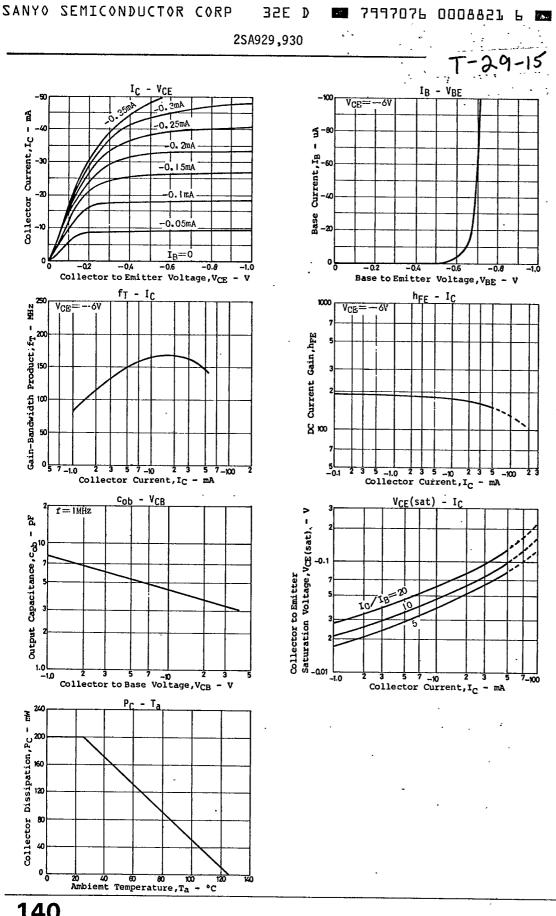






3187AT/3075KI/1313KI/1133KI,TS No.371-1/3

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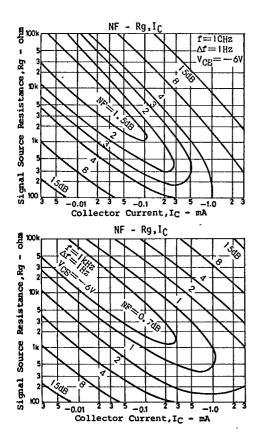
140

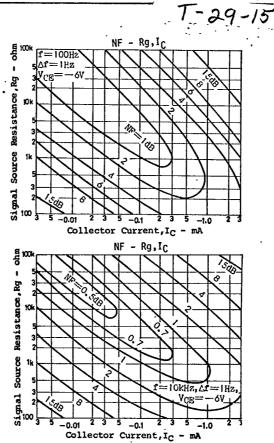
THE OWNER

## **35E** D M 7997076 0008822 8 🛤

2SA929,930

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- mA

## SANYO SEMICONDUCTOR CORP 32E D 📰 7997076 0008715 7 🛤

T-9/-20CASE OUTLINES OF LEAD FORMED SMALL SIGNAL TRANSISTORS

All of Sanyo lead formed small signal transistor case outlines are illustrated below.All dimensions are in mm, and dimensions which are not followed by min. or max.

- are represented by typical values.
- •No marking is indicated.

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