



SANYO Semiconductors

# DATA SHEET

An ON Semiconductor Company

N-Channel Junction Silicon FET

## 2SK932 — High-Frequency Low-Noise Amplifier Applications

### Applications

- AM tuner RF amplifier, low-noise amplifier

### Features

- Adoption of FBET process
- Large |yfs|
- Small Ciss
- Ultralow noise figure
- Ultrasmall-sized package permitting 2SK932-applied sets to be made smaller and slimmer

### Specifications

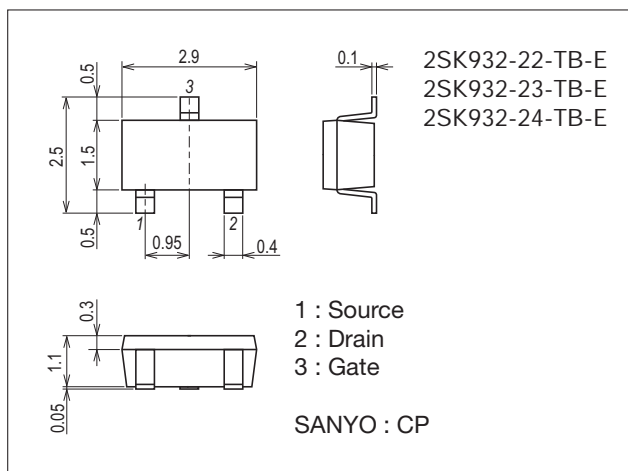
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V <sub>DSX</sub>		15	V
Gate-to-Drain Voltage	V <sub>GDS</sub>		-15	V
Gate Current	I <sub>G</sub>		10	mA
Drain Current	I <sub>D</sub>		50	mA
Allowable Power Dissipation	P <sub>D</sub>		200	mW
Junction Temperature	T <sub>j</sub>		150	°C
Storage Temperature	T <sub>stg</sub>		-55 to +150	°C

### Package Dimensions

unit : mm (typ)

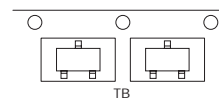
7013A-011



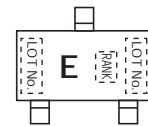
### Product & Package Information

- Package : CP
- JEITA, JEDEC : SC-59, TO-236, SOT-23, TO-236AB
- Minimum Packing Quantity : 3,000 pcs./reel

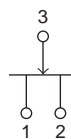
### Packing Type: TB



### Marking



### Electrical Connection



# 2SK932

## Electrical Characteristics at Ta=25°C

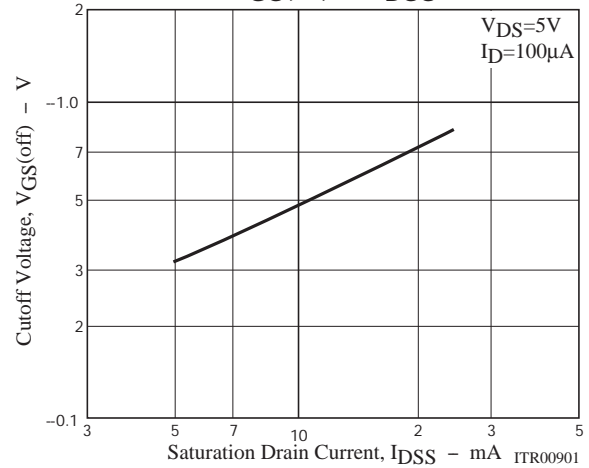
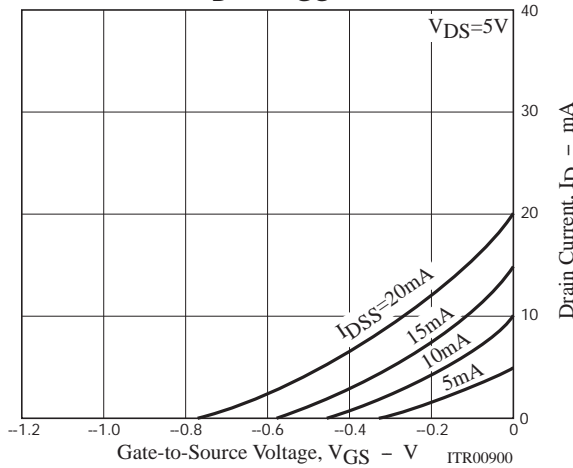
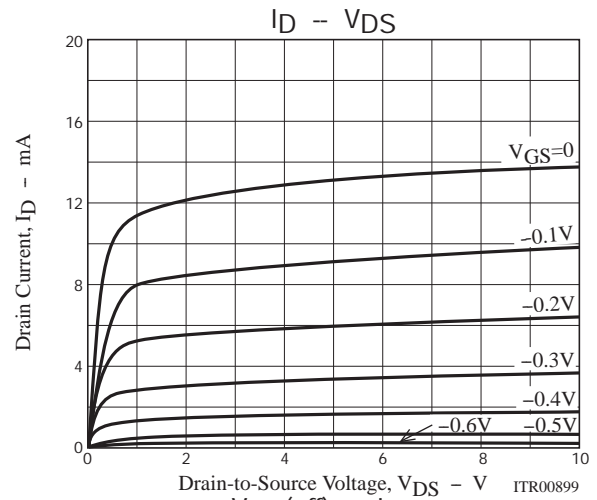
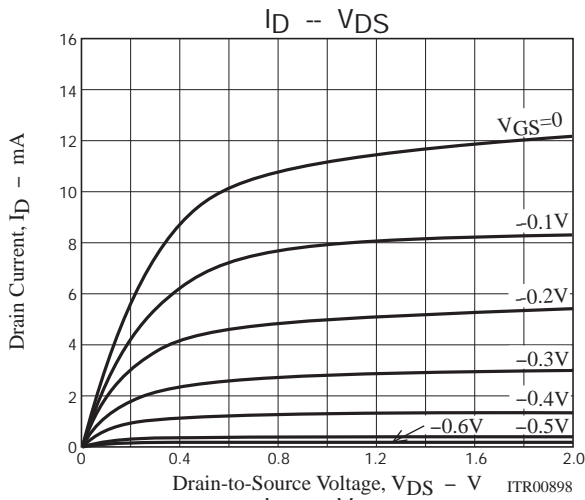
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	V(BR)GDS	I <sub>G</sub> =-10μA, V <sub>DS</sub> =0V	-15			V
Gate-to-Source Leakage Current	I <sub>GSS</sub>	V <sub>GS</sub> =-10V, V <sub>DS</sub> =0V			-1.0	nA
Zero-Gate Voltage Drain Current	I <sub>DSS</sub>	V <sub>DS</sub> =5V, V <sub>GS</sub> =0V	5.0*		24.0*	mA
Cutoff Voltage	V <sub>GS(off)</sub>	V <sub>DS</sub> =5V, I <sub>D</sub> =100μA	-0.2	-0.6	-1.4	V
Forward Transfer Admittance	y <sub>fs</sub>	V <sub>DS</sub> =5V, V <sub>GS</sub> =0V, f=1kHz	25	50		mS
Input Capacitance	C <sub>iss</sub>	V <sub>DS</sub> =5V, V <sub>GS</sub> =0V, f=1MHz		10		pF
Reverse Transfer Capacitance	C <sub>rss</sub>			3.0		pF
Noise Figure	NF	V <sub>DS</sub> =5V, R <sub>G</sub> =1kΩ, I <sub>D</sub> =1mA, f=1kHz		1.5		dB

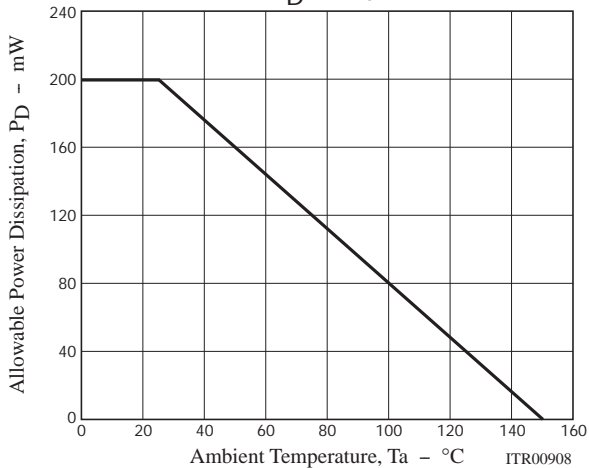
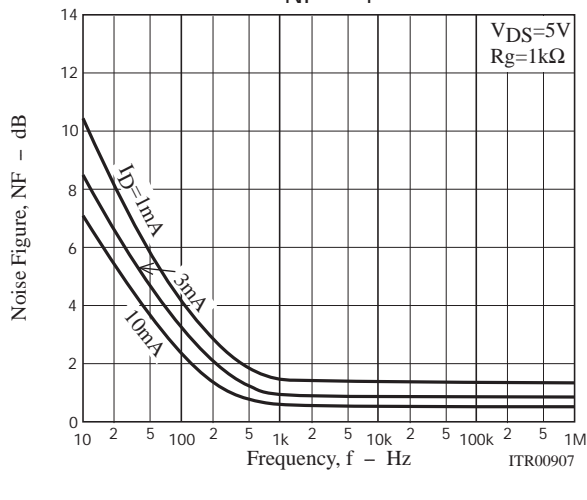
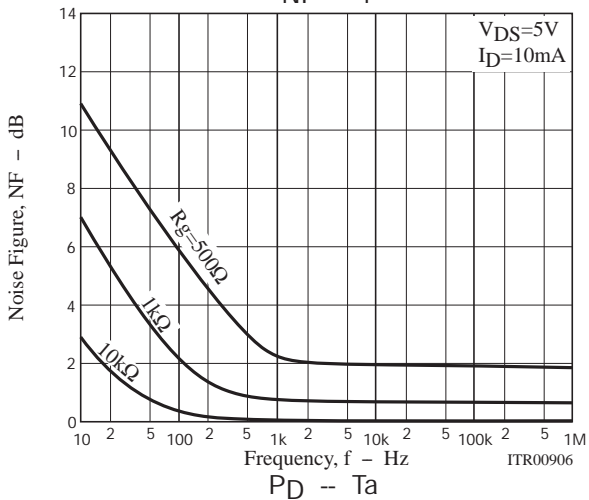
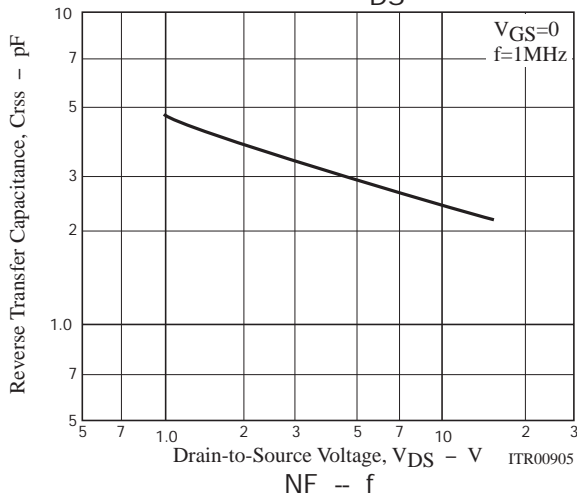
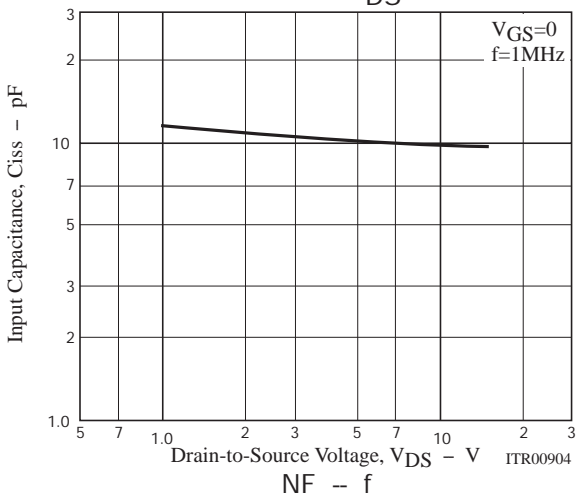
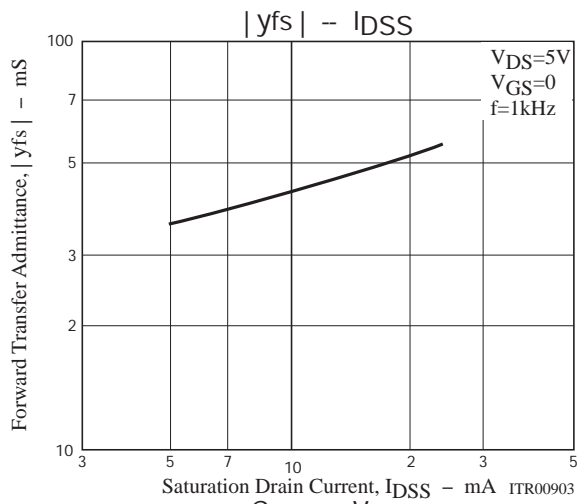
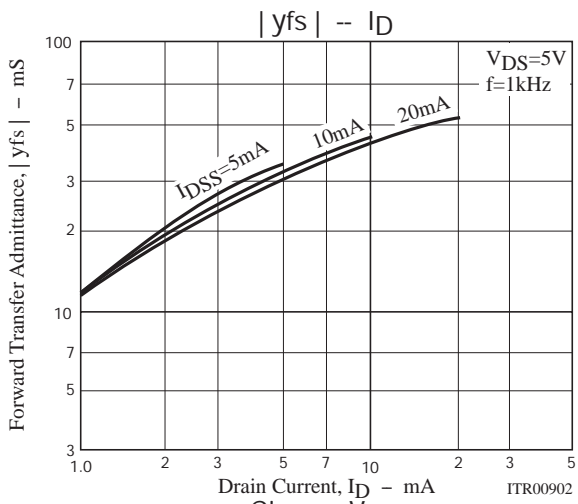
\* : The 2SK932 is classified by I<sub>DSS</sub> as follows : (unit : mA)

Rank	21	22	23	24
I <sub>DSS</sub>	5.0 to 8.5	7.3 to 12.0	10.0 to 17.0	14.5 to 24.0

## Ordering Information

Device	Package	Shipping	memo
2SK932-22-TB-E	CP	3,000pcs./reel	Pb Free
2SK932-23-TB-E	CP	3,000pcs./reel	
2SK932-24-TB-E	CP	3,000pcs./reel	





Embossed Taping Specification

2SK932-22-TB-E, 2SK932-23-TB-E, 2SK932-24-TB-E

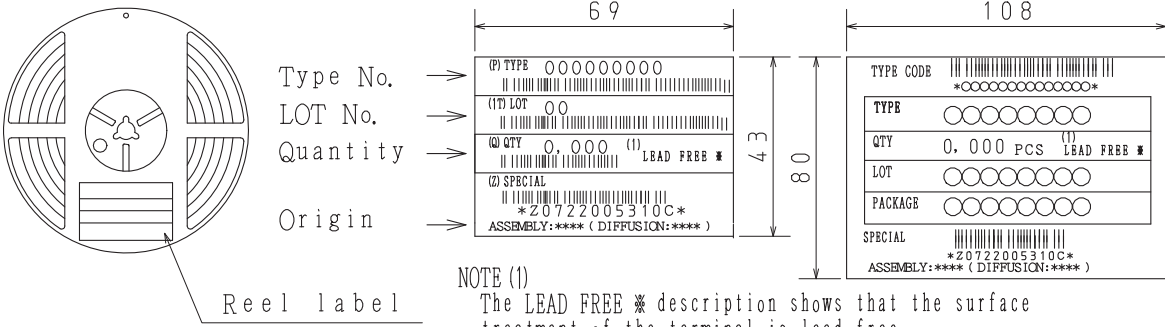
1. Packing Format

Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
CP	CP	3,000	15,000	90,000	5 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210

Packing method

Reel label, Inner box label (unit:mm)      Outer box label

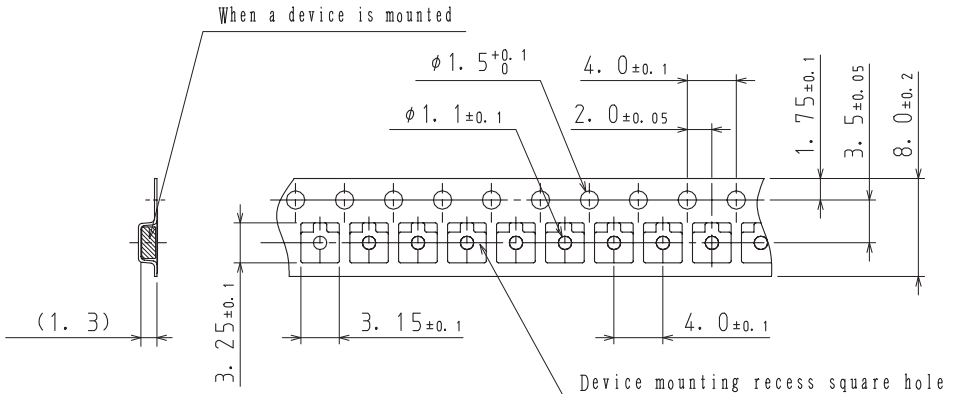
It is a label at the time of factory shipments. The form of a label may change in physical distribution process.



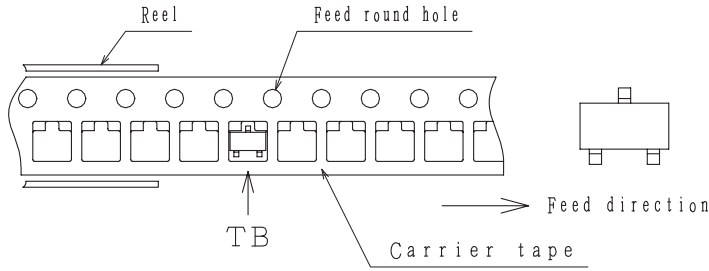
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

2-1. Carrier tape size (unit:mm)



2-2. Device placement direction

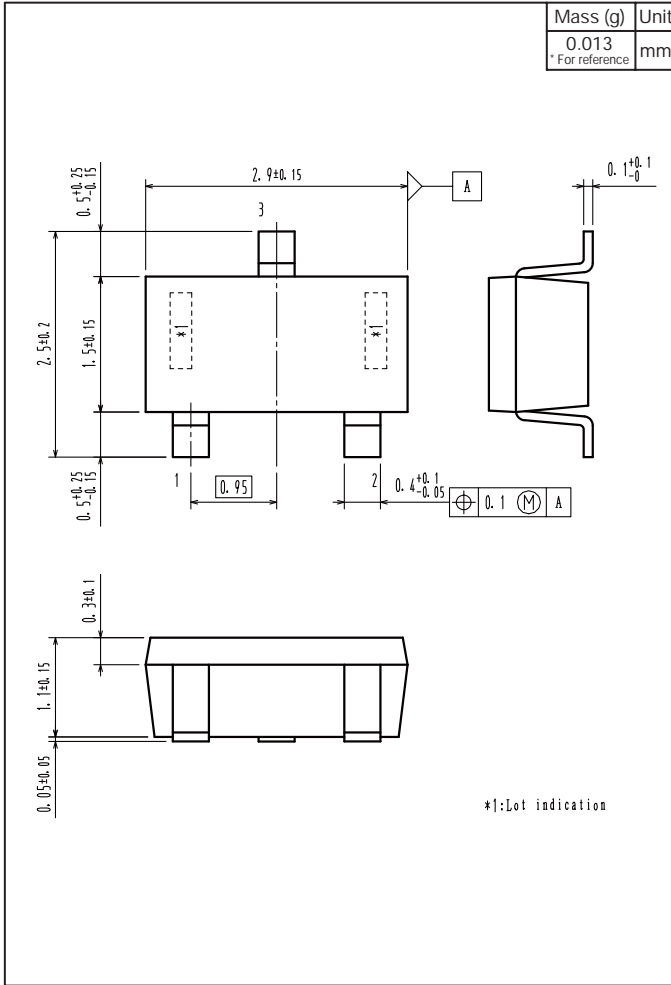


Those with one electrode terminal on the feed hole side.....TB

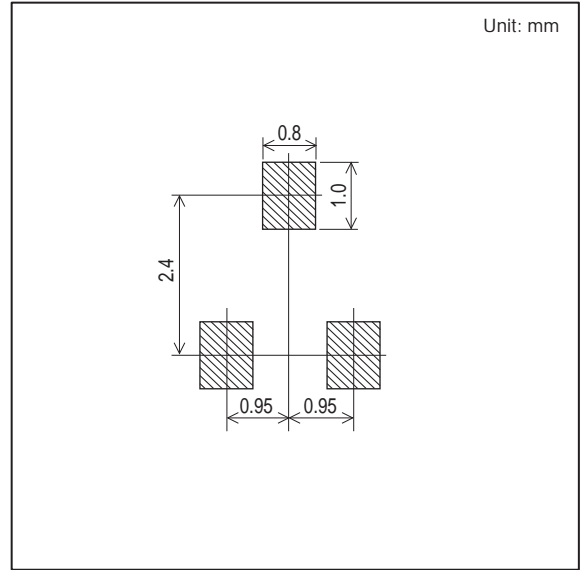
# 2SK932

## Outline Drawing

2SK932-22-TB-E, 2SK932-23-TB-E, 2SK932-24-TB-E



## Land Pattern Example



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