# 2SK932

# ON Semiconductor®

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### N-Channel JFET 15V, 7.3 to 24mA, 50mS, CP

### **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**

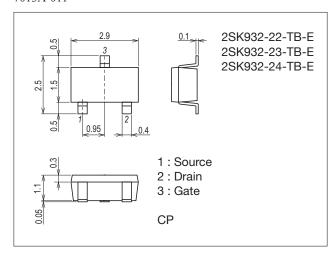
### **Absolute Maximum Ratings** at Ta=25°C

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	IG		10	mA
Drain Current	ID		50	mA
Allowable Power Dissipation	PD		200	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

### **Package Dimensions**

unit : mm (typ) 7013A-011



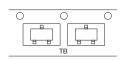
### **Product & Package Information**

• Package : CP

• JEITA, JEDEC : SC-59, TO-236, SOT-23, TO-236AB

• Minimum Packing Quantity: 3,000 pcs./reel

### **Packing Type: TB**



# FANK!

Marking

### **Electrical Connection**



#### ORDERING INFORMATION

See detailed ordering and shipping information on page 2 of this data sheet.

### Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
Farameter	Symbol	Conditions	min	typ	max	Offic
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	IGSS	V <sub>GS</sub> =-10V, V <sub>DS</sub> =0V			-1.0	nA
Zero-Gate Voltage Drain Current	IDSS	$V_{DS}$ =-5V, $V_{GS}$ =0V	7.3*		24.0*	mA
Cutoff Voltage	V <sub>GS</sub> (off)	V <sub>DS</sub> =5V, I <sub>D</sub> =100μA	-0.2	-0.6	-1.4	V
Forward Transfer Admittance	yfs	V <sub>DS</sub> =5V, V <sub>GS</sub> =0V, f=1kHz	25	50		mS
Input Capacitance	Ciss	V <sub>DS</sub> =5V, V <sub>GS</sub> =0V, f=1MHz		10		pF
Reverse Transfer Capacitance	Crss	VDS=5V, VGS=0V, I=TIVIEZ		3.0		pF
Noise Figure	NF	$V_{DS}$ =5V, $R_g$ =1k $\Omega$ , $I_D$ =1mA, f=1kHz		1.5		dB

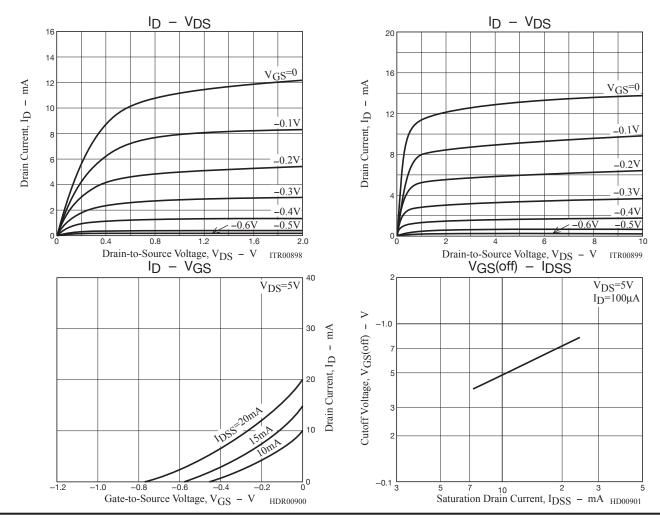
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

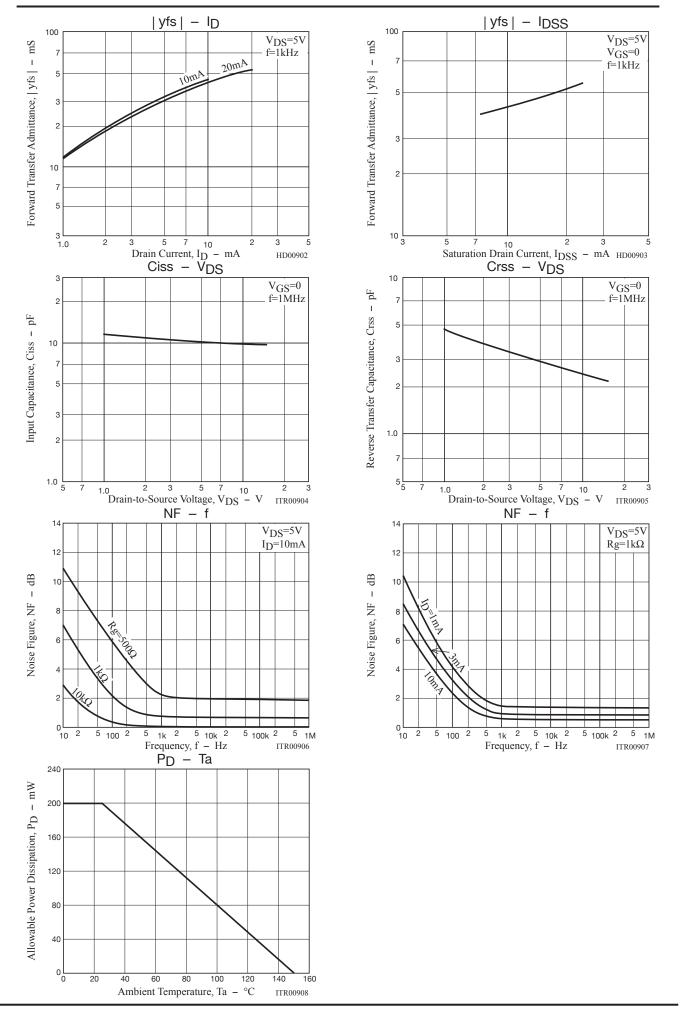
### \* : The 2SK932 is classified by IDSS as follows : (unit : mA)

Rank	22	23	24	
IDSS	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	СР	3,000pcs./reel	
2SK932-23-TB-E	СР	3,000pcs./reel	Pb Free
2SK932-24-TB-E	СР	3,000pcs./reel	



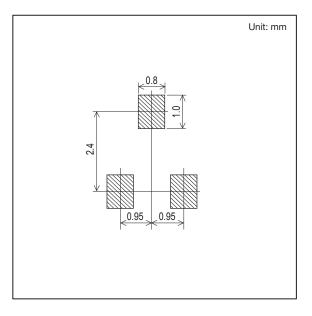


### **Outline Drawing**

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

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### **Land Pattern Example**



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