



2SK932

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

ON Semiconductor®

<http://onsemi.com>

Applications

- AM tuner RF amplifier, low-noise amplifier

Features

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

Specifications

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

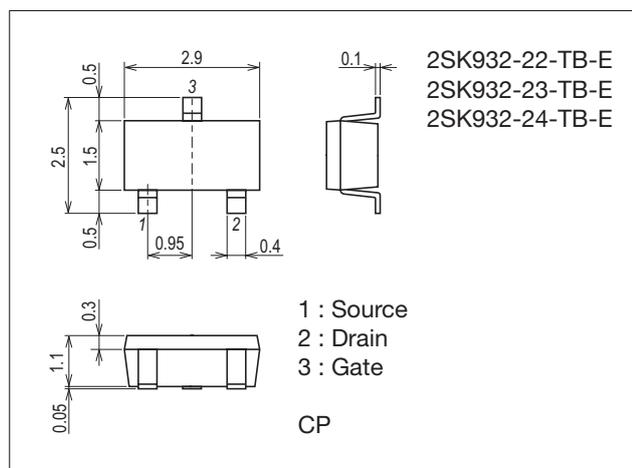
Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V_{DSX}		15	V
Gate-to-Drain Voltage	V_{GDS}		-15	V
Gate Current	I_G		10	mA
Drain Current	I_D		50	mA
Allowable Power Dissipation	P_D		200	mW
Junction Temperature	T_J		150	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +150	$^\circ\text{C}$

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)

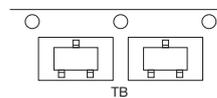
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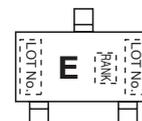
Product & Package Information

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

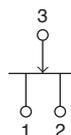
Packing Type: TB



Marking



Electrical Connection



ORDERING INFORMATION

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

2SK932

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	V(BR)GDS	I _G =-10μA, V _{DS} =0V	-15			V
Gate-to-Source Leakage Current	I _{GSS}	V _{GS} =-10V, V _{DS} =0V			-1.0	nA
Zero-Gate Voltage Drain Current	I _{DSS}	V _{DS} =5V, V _{GS} =0V	7.3*		24.0*	mA
Cutoff Voltage	V _{GS(off)}	V _{DS} =5V, I _D =100μA	-0.2	-0.6	-1.4	V
Forward Transfer Admittance	y _{fs}	V _{DS} =5V, V _{GS} =0V, f=1kHz	25	50		mS
Input Capacitance	C _{iss}	V _{DS} =5V, V _{GS} =0V, f=1MHz		10		pF
Reverse Transfer Capacitance	C _{rss}		3.0			pF
Noise Figure	NF	V _{DS} =5V, R _G =1kΩ, I _D =1mA, f=1kHz		1.5		dB

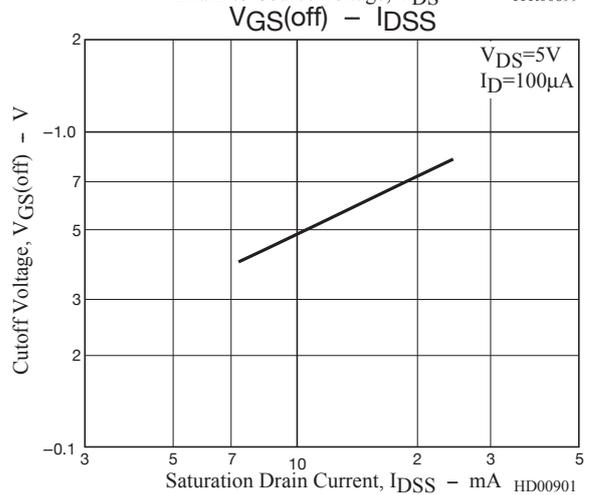
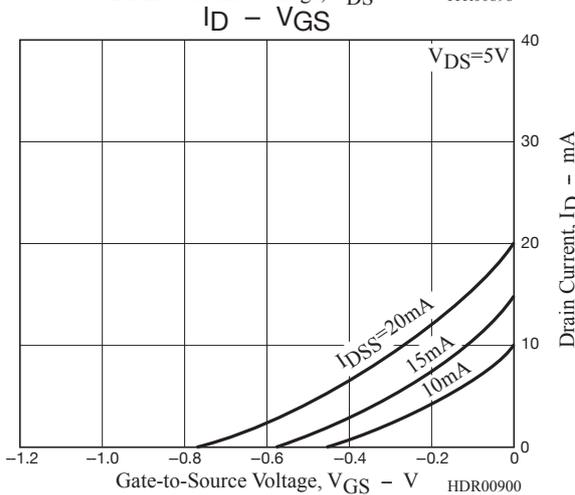
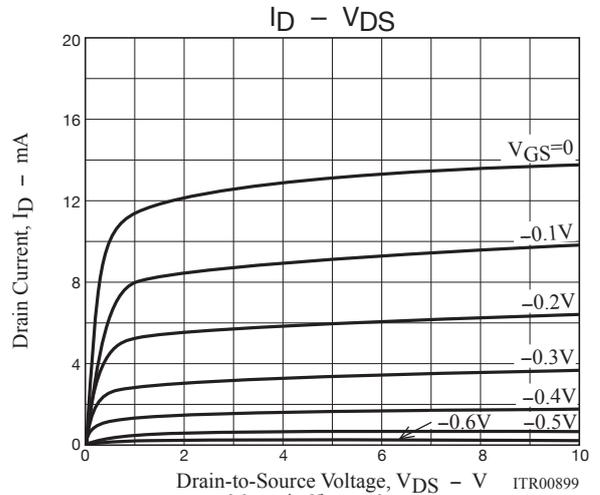
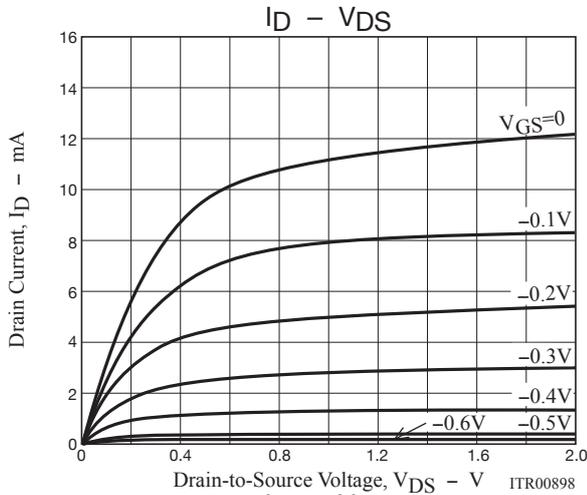
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

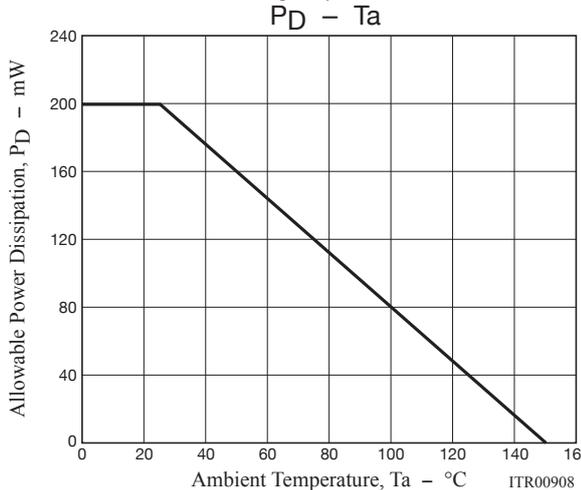
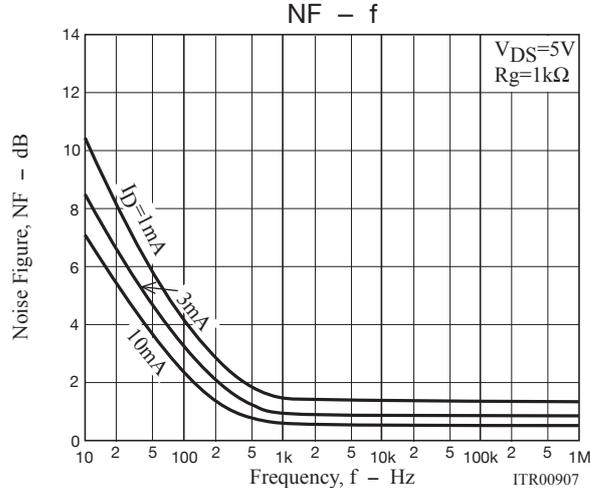
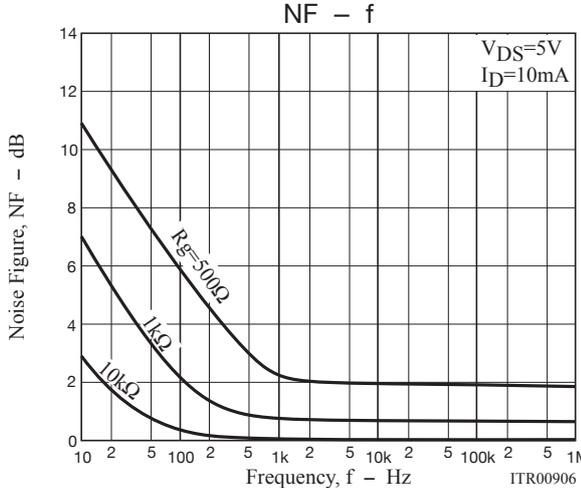
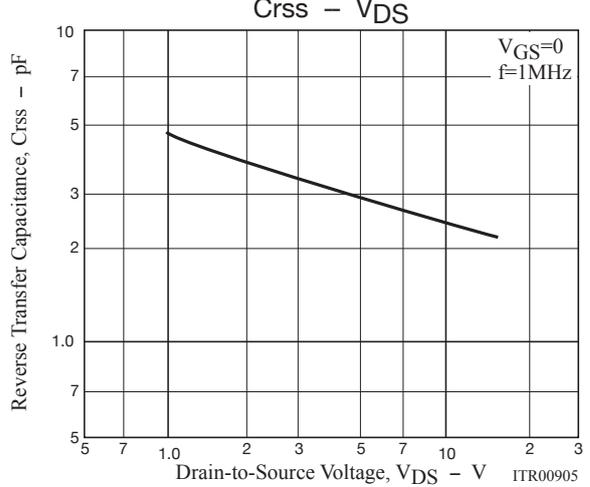
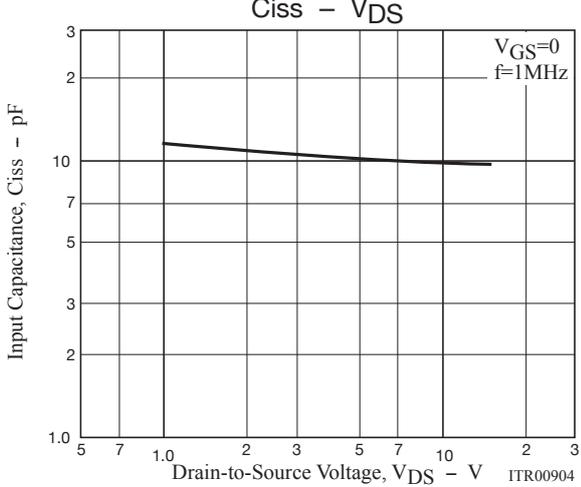
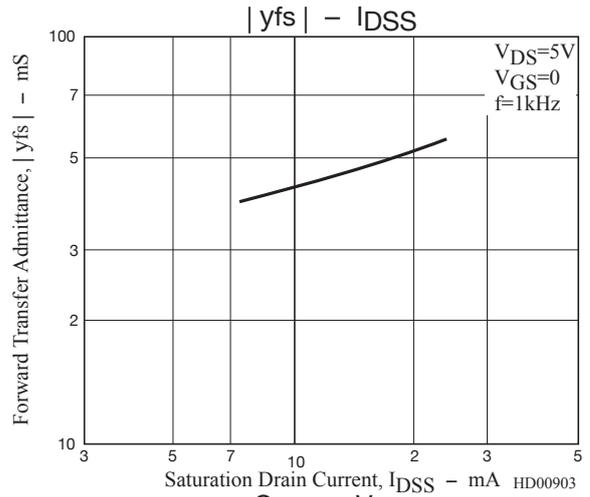
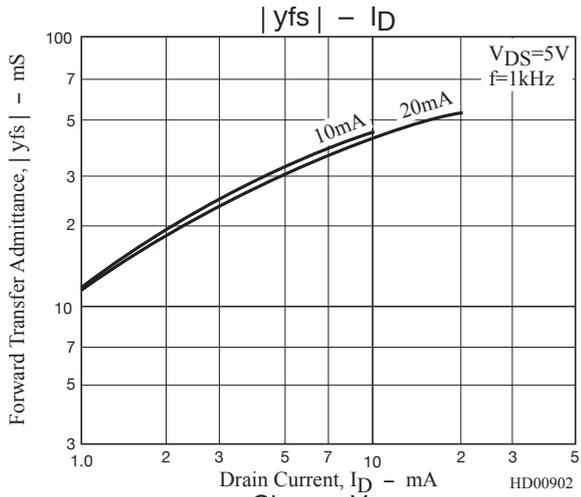
* : The 2SK932 is classified by I_{DSS} as follows : (unit : mA)

Rank	22	23	24
I _{DSS}	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	

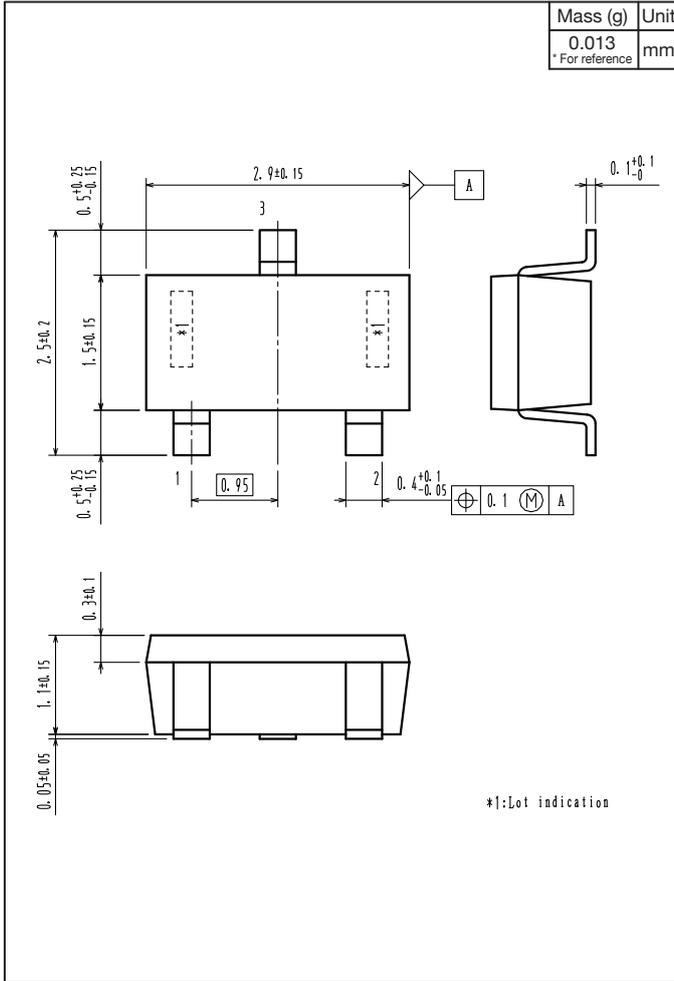




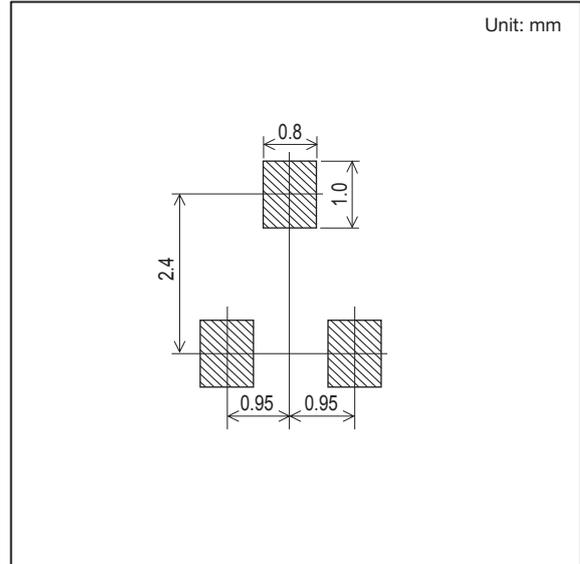
2SK932

Outline Drawing

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



Land Pattern Example



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