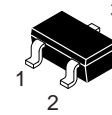


N-Channel JFET

15 V, 10 to 24 mA, 50 mS, CP

2SK932



1: Source
2: Drain
3: Gate

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Applications

- AM Tuner RF Amplification, 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
- These are Pb-Free Devices

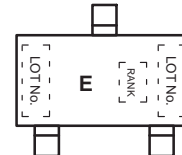
Specifications

ABSOLUTE MAXIMUM RATINGS (T_A = 25°C)

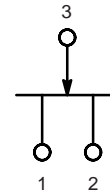
Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSX}		15	V
Gate-to-Drain Voltage	V _{GDS}		-15	V
Gate Current	I _G		10	mA
Drain Current	I _D		50	mA
Allowable Power Dissipation	P _D		200	mW
Junction Temperature	T _j		150	°C
Storage Temperature	T _{stg}		-55 to +150	°C

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.

MARKING DIAGRAM



ELECTRICAL CONNECTION



ORDERING INFORMATION

Device	Package	Shipping†
2SK932-23-TB-E	CP (Pb-Free)	3,000 / Tape & Reel
2SK932-24-TB-E	CP (Pb-Free)	3,000 / Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

2SK932

ELECTRICAL CHARACTERISTICS (T_A = 25°C)

Parameter	Symbol	Conditions	Ratings			Unit
			Min	Typ	Max	
Gate-to-Drain Breakdown Voltage	V _{(BR)GDS}	I _G = -10 μA, V _{DS} = 0 V	-15	-	-	V
Gate-to-Source Leakage Current	I _{GSS}	V _{GS} = -10 V, V _{DS} = 0 V	-	-	-1.0	nA
Zero-Gate Voltage Drain Current	I _{DSS}	V _{DS} = -5 V, V _{GS} = 0 V	10.0*	-	24.0*	mA
Cutoff Voltage	V _{GS(off)}	V _{DS} = 5 V, I _D = 100 μA	-0.2	-0.6	-1.4	V
Forward Transfer Admittance	y _{fs}	V _{DS} = 5 V, V _{GS} = 0 V, f = 1 kHz	25	50	-	mS
Input Capacitance	C _{iss}	V _{DS} = 5 V, V _{GS} = 0 V, f = 1 MHz	-	10	-	pF
Reverse Transfer Capacitance	C _{rss}		-	3.0	-	pF
Noise Figure	NF	V _{DS} = 5 V, R _g = 1 kΩ, I _D = 1 mA, f = 1 kHz	-	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	23	24
I _{DSS}	10.0 to 17.0	14.5 to 24.0

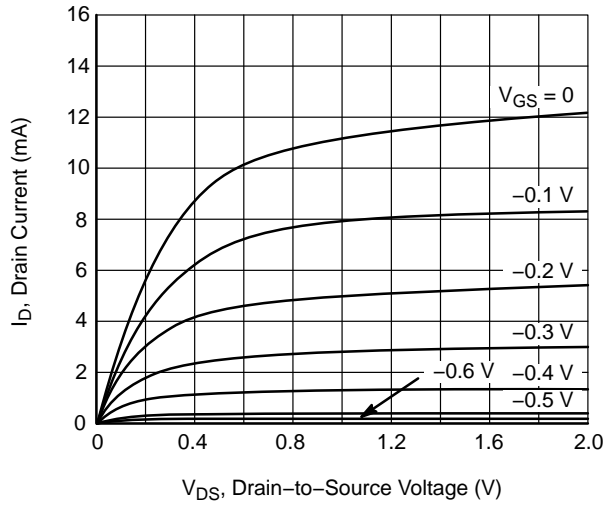


Figure 1. $I_D - V_{DS}$

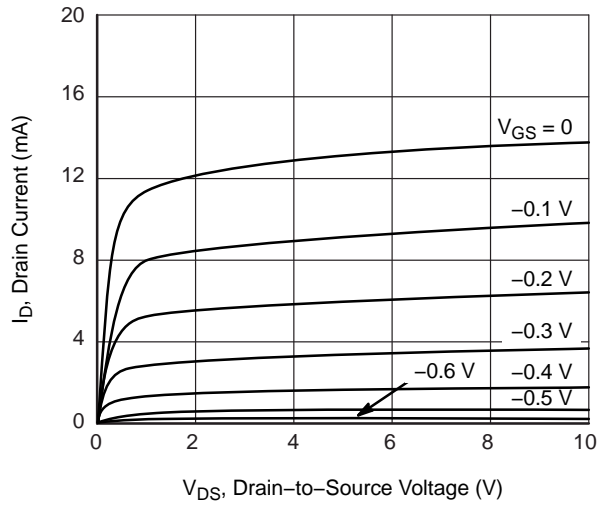


Figure 2. $I_D - V_{DS}$

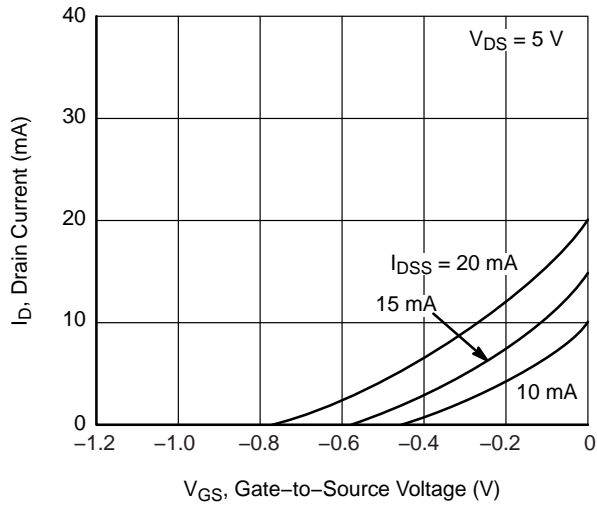


Figure 3. $I_D - V_{GS}$

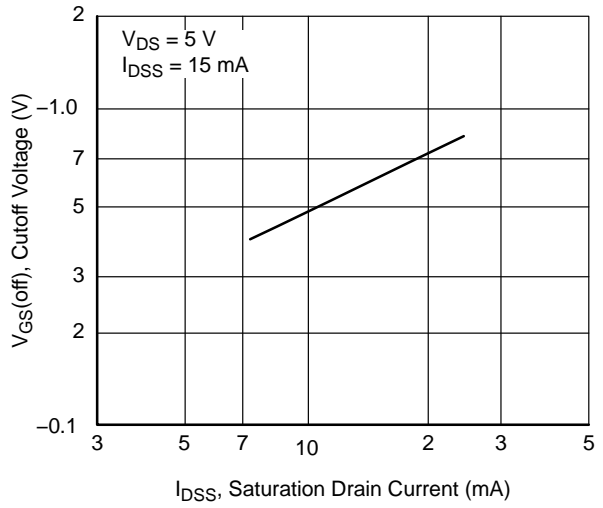


Figure 4. $V_{GS(off)} - I_{DSS}$

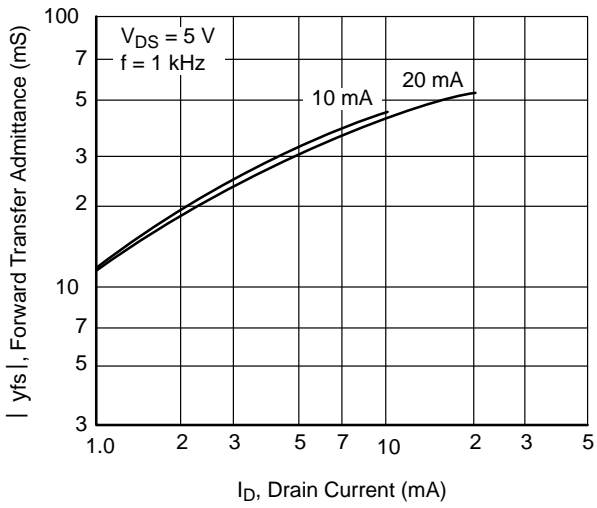


Figure 5. $|y_{fs}| - I_D$

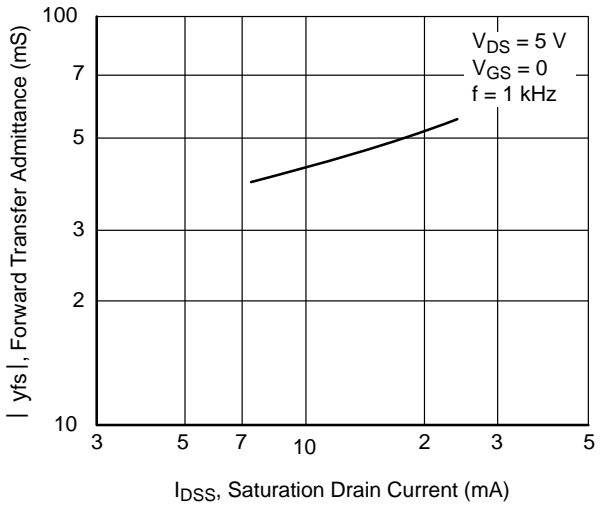
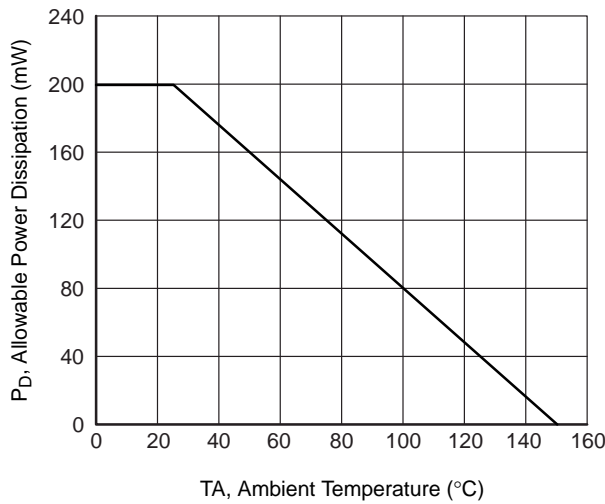
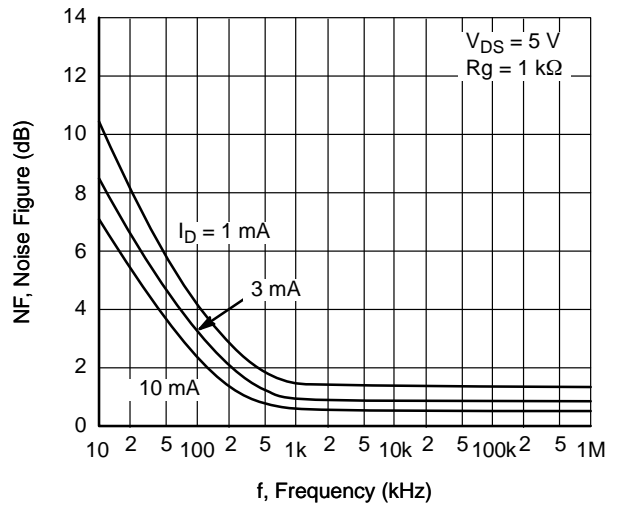
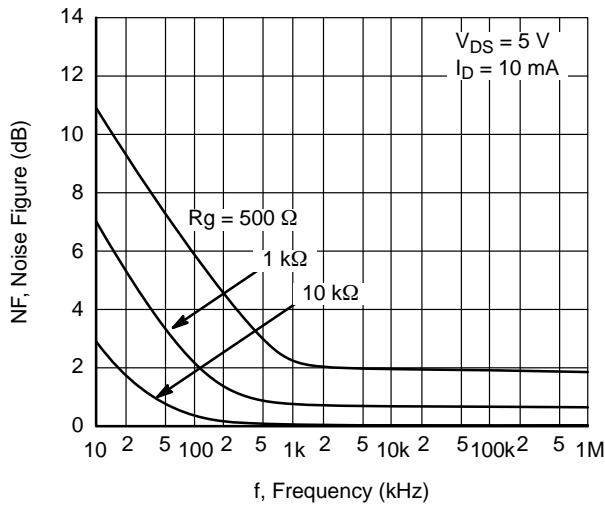
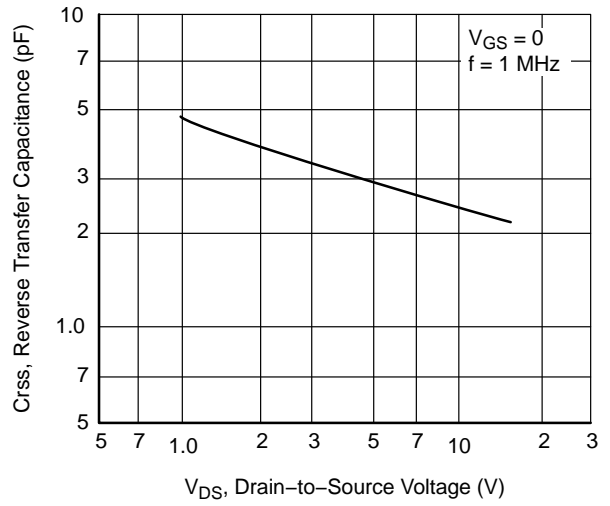
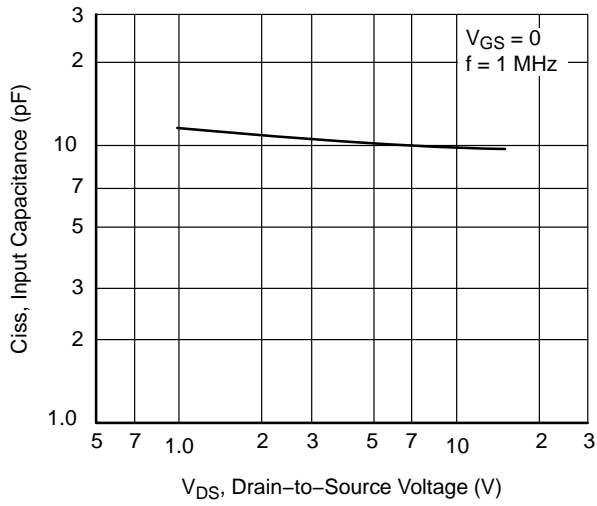


Figure 6. $|y_{fs}| - I_{DSS}$



MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

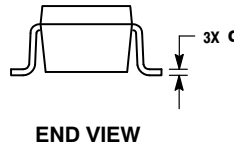
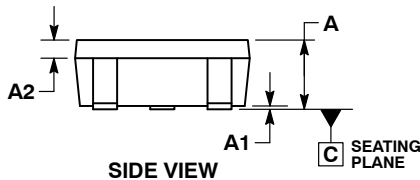
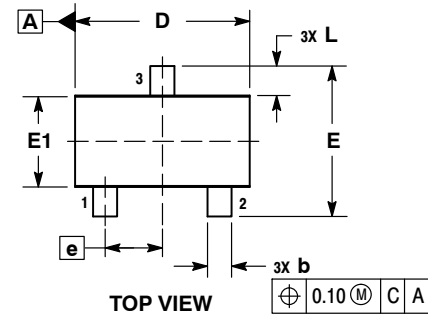
ON Semiconductor®



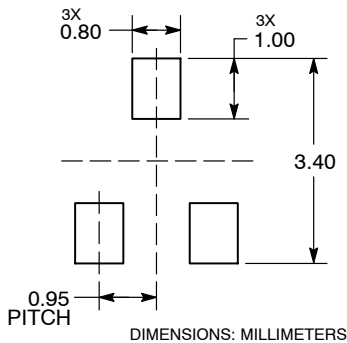
SCALE 2:1

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DATE 09 JAN 2015



RECOMMENDED SOLDERING FOOTPRINT*

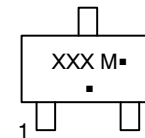


NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.20 PER SIDE.
4. DIMENSIONS D AND E1 ARE MEASURED AT THE OUTERMOST EXTREME OF THE PLASTIC BODY.
5. DIMENSIONS b AND c APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.10 AND 0.20 FROM THE TIP.

MILLIMETERS		
DIM	MIN	MAX
A	0.95	1.35
A1	0.00	0.10
A2	0.20	0.40
b	0.35	0.50
c	0.10	0.20
D	2.75	3.05
E	2.30	2.70
E1	1.35	1.65
e	0.95 BSC	
L	0.35	0.75

GENERIC MARKING DIAGRAM



- XXX = Specific Device Code
M = Date Code
▪ = Pb-Free Package

(Note: Microdot may be in either location)

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "▪", may or may not be present.

*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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