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

2**SK**932

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 Slimer
- 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	۱ _G		10	mA
Drain Current	Ι _D		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.



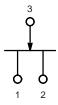
1: Source 2: Drain 3: Gate

SC-59 / CP3 CASE 318BJ

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.

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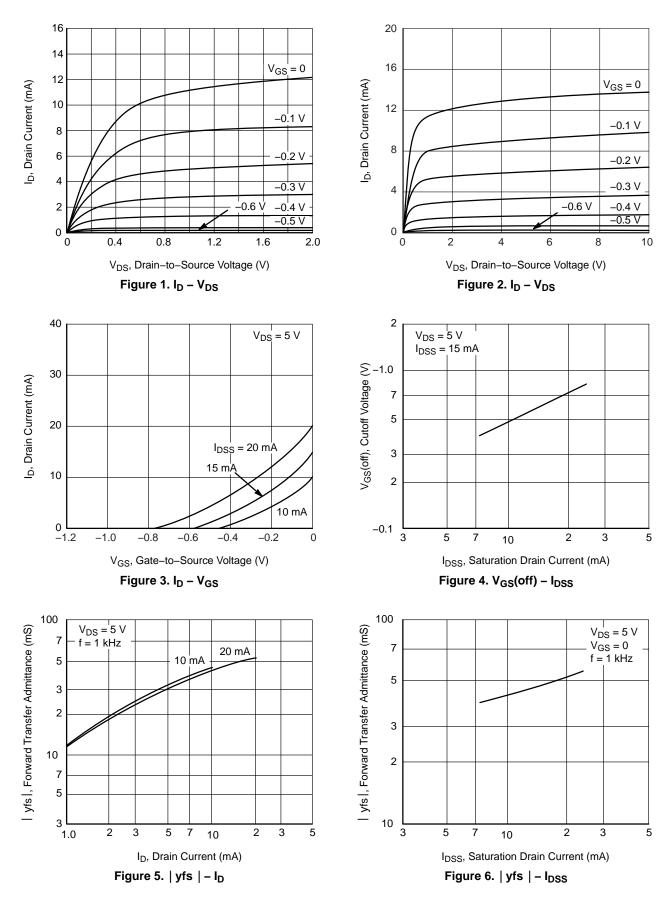
ELECTRICAL CHARACTERISTICS (T_A = 25° C)

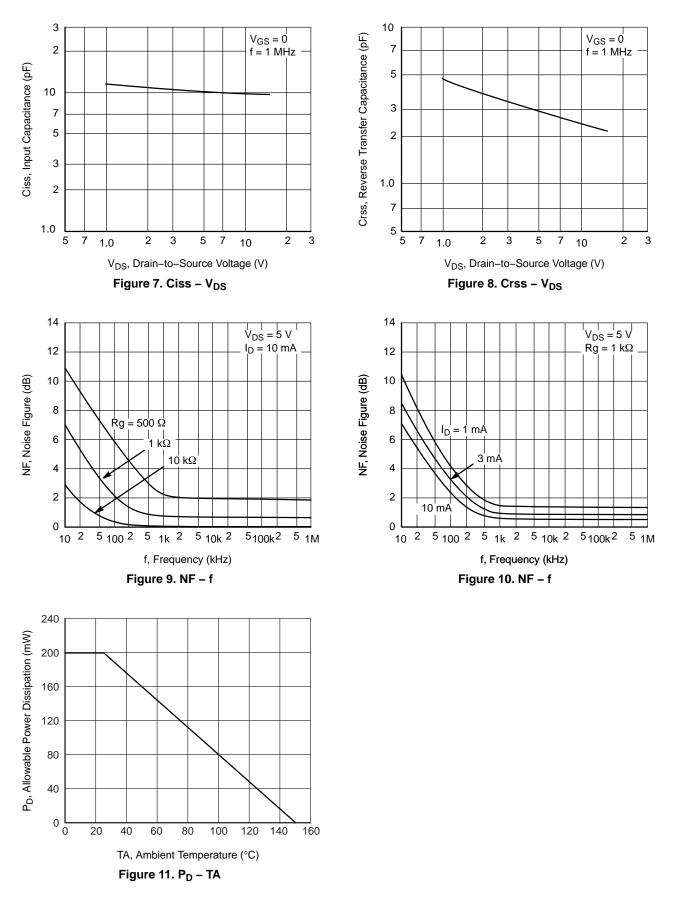
			Ratings			
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Gate-to-Drain Breakdown Voltage	V _{(BR)GDS}	$I_{G} = -10 \ \mu A, \ V_{DS} = 0 \ V$	–15	-	-	V
Gate-to-Source Leakage Current	I _{GSS}	V_{GS} = -10 V, V_{DS} = 0 V	-	-	-1.0	nA
Zero-Gate Voltage Drain Current	I _{DSS}	V_{DS} = -5 V, V_{GS} = 0 V	10.0*	-	24.0*	mA
Cutoff Voltage	V _{GS} (off)	$V_{DS} = 5 \text{ V}, \text{ I}_{D} = 100 \ \mu\text{A}$	-0.2	-0.6	-1.4	V
Forward Transfer Admittance	yfs	$V_{DS} = 5 \text{ V}, \text{ V}_{GS} = 0 \text{ V}, \text{ f} = 1 \text{ kHz}$	25	50	-	mS
Input Capacitance	Ciss	V_{DS} = 5 V, V_{GS} = 0 V, f = 1 MHz	_	10	-	pF
Reverse Transfer Capacitance	Crss	1	-	3.0	-	pF
Noise Figure	NF	$V_{DS} = 5 \text{ V}, \text{ R}_{g} = 1 \text{ k}\Omega, \text{ I}_{D} = 1 \text{ mA}, \text{ f} = 1 \text{ kHz}$	-	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)

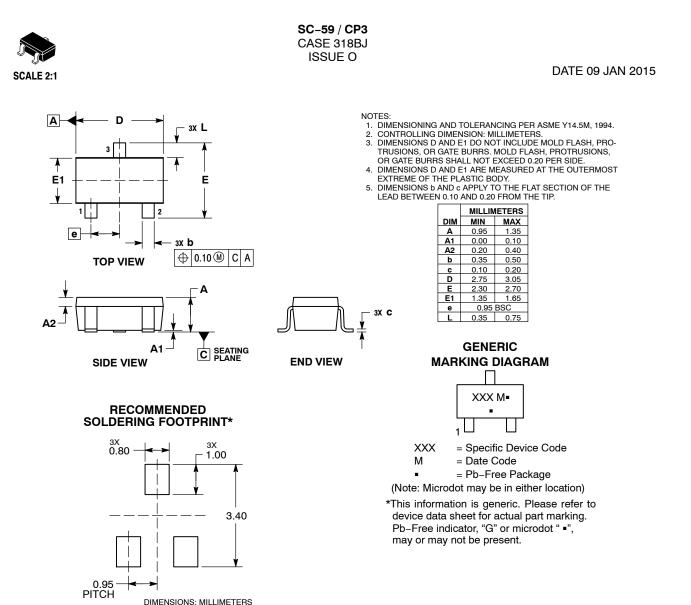
 Rank
 23
 24

 I_{DSS}
 10.0 to 17.0
 14.5 to 24.0





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*For additional information on our Pb-Free strategy and soldering details, please download the **onsemi** Soldering and Mounting

Techniques Reference Manual, SOLDERRM/D.

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