

2SK932

High-Frequency Low-Noise Amplifier Applications

Applications

· AM tuner RF amplifier, low-noise amplifier.

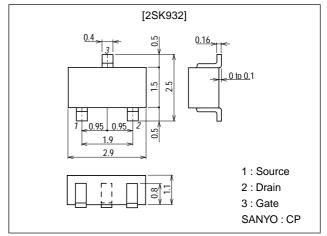
Features

- · 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.

Package Dimensions

unit:mm

2050A



Specifications

Absolute Maximum Ratings at Ta = 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	IG		10	mA
Drain Current	ID		50	mA
Allowable Power Dissipation	P _D		200	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
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	IDSS	V _{DS} =5V, V _{GS} =0V	5.0*		24.0*	mA
Cutoff Voltage	V _{GS(off)}	V _{DS} =5V, I _D =100μA	-0.2	-0.6	-1.4	V
Forward Transfer Admittance	yfs	V_{DS} =5V, V_{GS} =0V, f=1kHz	25	50		mS

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

5.0 21 8.5 7.3 22 12.0 10.0 23 17.0 14.5 24 24.0

(Note) Marking: E

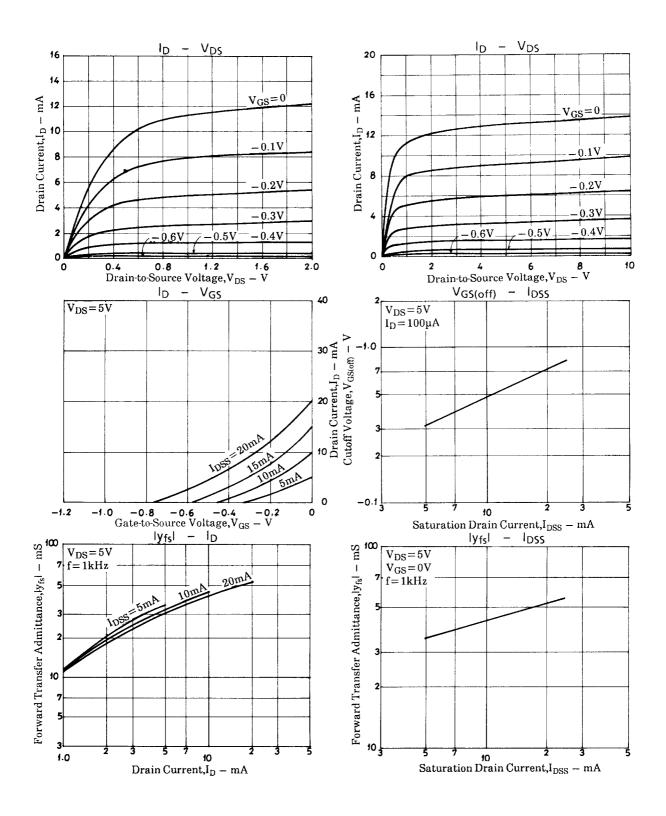
I_{DSS} rank: 21, 22, 23, 24

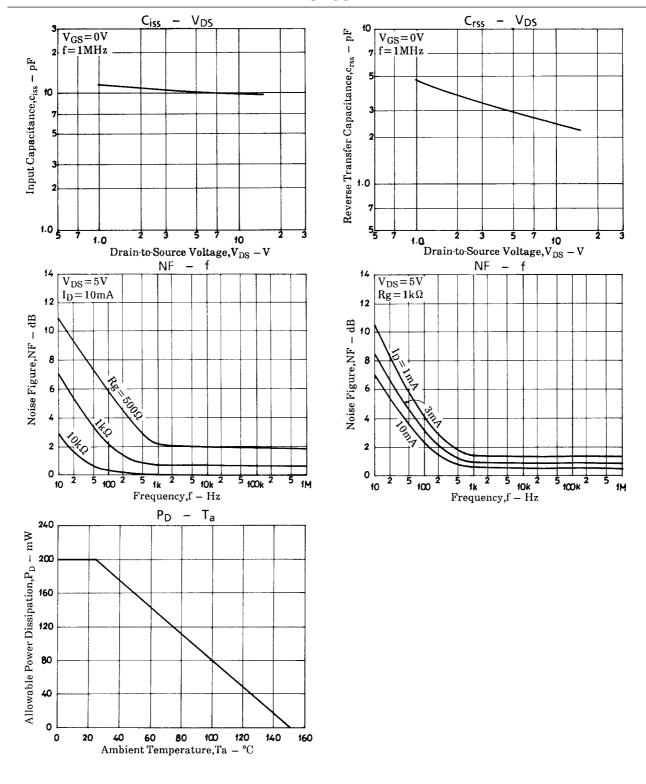
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Parameter	Symbol	Conditions	Ratings	Unit
Input Capacitance	Ciss	$V_{DS}=5V$, $V_{GS}=0V$, $f=1MHz$	10	pF
Reverse Transfer Capacitance	Crss	V_{DS} =5V, V_{GS} =0V, f=1MHz	3.0	pF
Noise Figure	NF	V_{DS} =5V, Rg=1k Ω , I $_{D}$ =1mA, f=1kHz	1.5	dB





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