

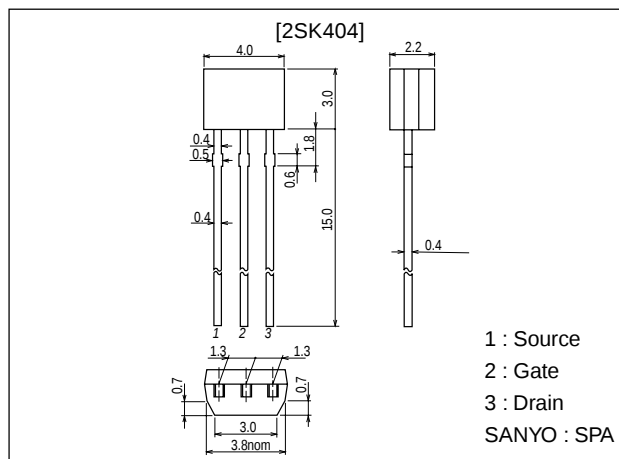
**2SK404****HF Amplifier, AF Amplifier Applications****Features**

- Large $|y_{fs}|$.
- Low noise.
- Small Crss.

Package Dimensions

unit:mm

2034A

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

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V_{DSS}		20	V
Gate-to-Drain Voltage	V_{GSS}		-20	V
Gate Current	I_G		10	mA
Drain Current	I_D		20	mA
Allowable Power Dissipation	P_D		200	mW
Junction Temperature	T_J		125	°C
Storage Temperature	T_{stg}		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	$V_{(BR)GSS}$	$I_G = -10\mu A$	-20			V
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS} = -10V, V_{DS} = 0V$			-1.0	nA
Zero-Gate Voltage Drain Current	I_{DSS}^*	$V_{DS} = 5V, V_{GS} = 0V$	1.2*		12.0*	mA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 5V, I_D = 10\mu A$		-0.8	-2.0	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = 5V, V_{GS} = 0V, f = 1kHz$	5.0	10		mS
Input Capacitance	Ciss	$V_{DS} = 5V, V_{GS} = 0V, f = 1MHz$		7.0		pF
Reverse Transfer Capacitance	Crss	$V_{DS} = 5V, V_{GS} = 0V, f = 1MHz$		1.8		pF
Noise Figure	NF	$V_{DS} = 15V, I_D = 1mA, R_g = 1k\Omega, f = 1kHz$		1.5		dB

* : The 2SK404 is classified by $V_{DS} = 5V$ as follows (unit : mA) :

1.2	D	3.0	2.5	E	6.0	5.0	F	12.0
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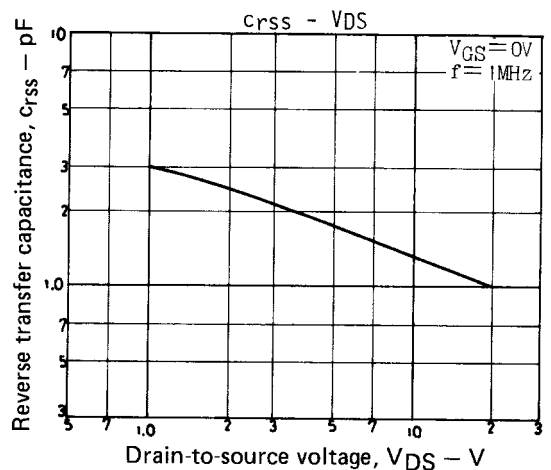
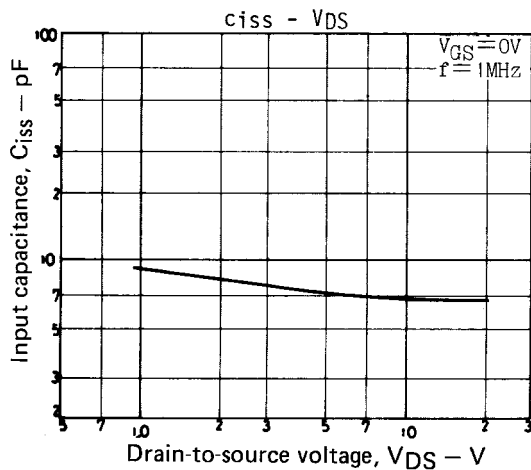
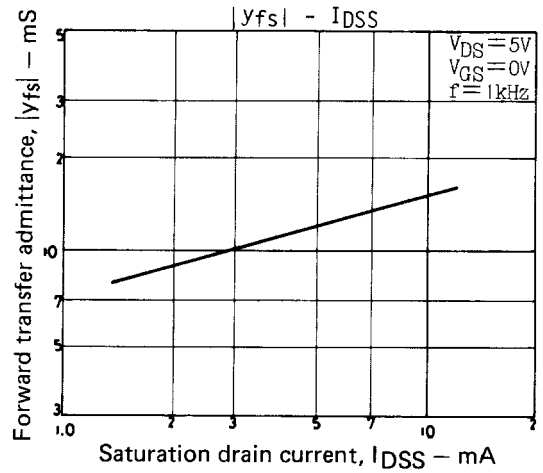
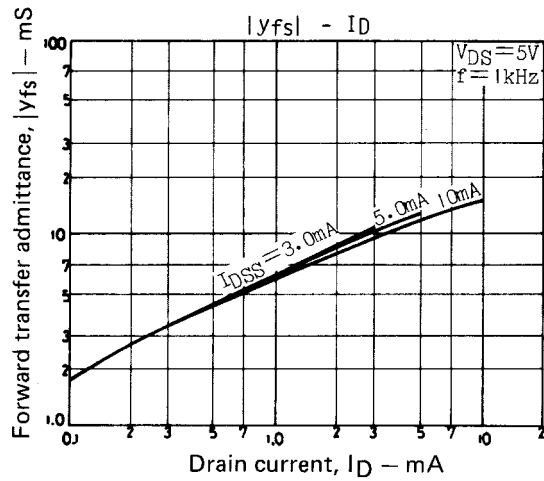
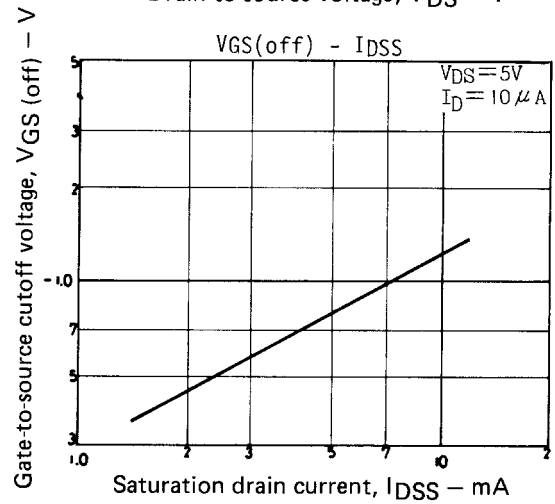
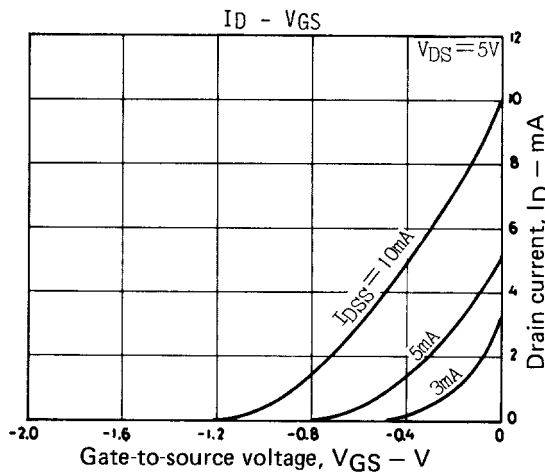
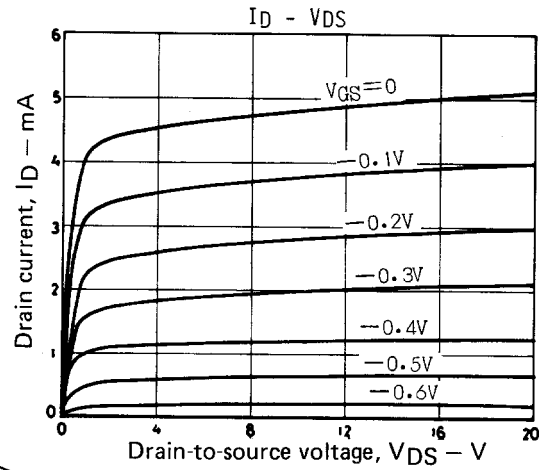
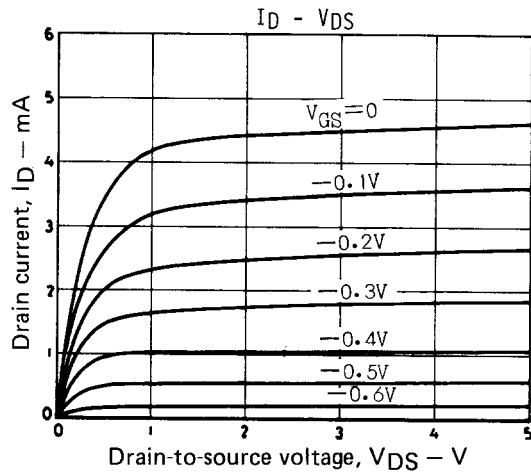
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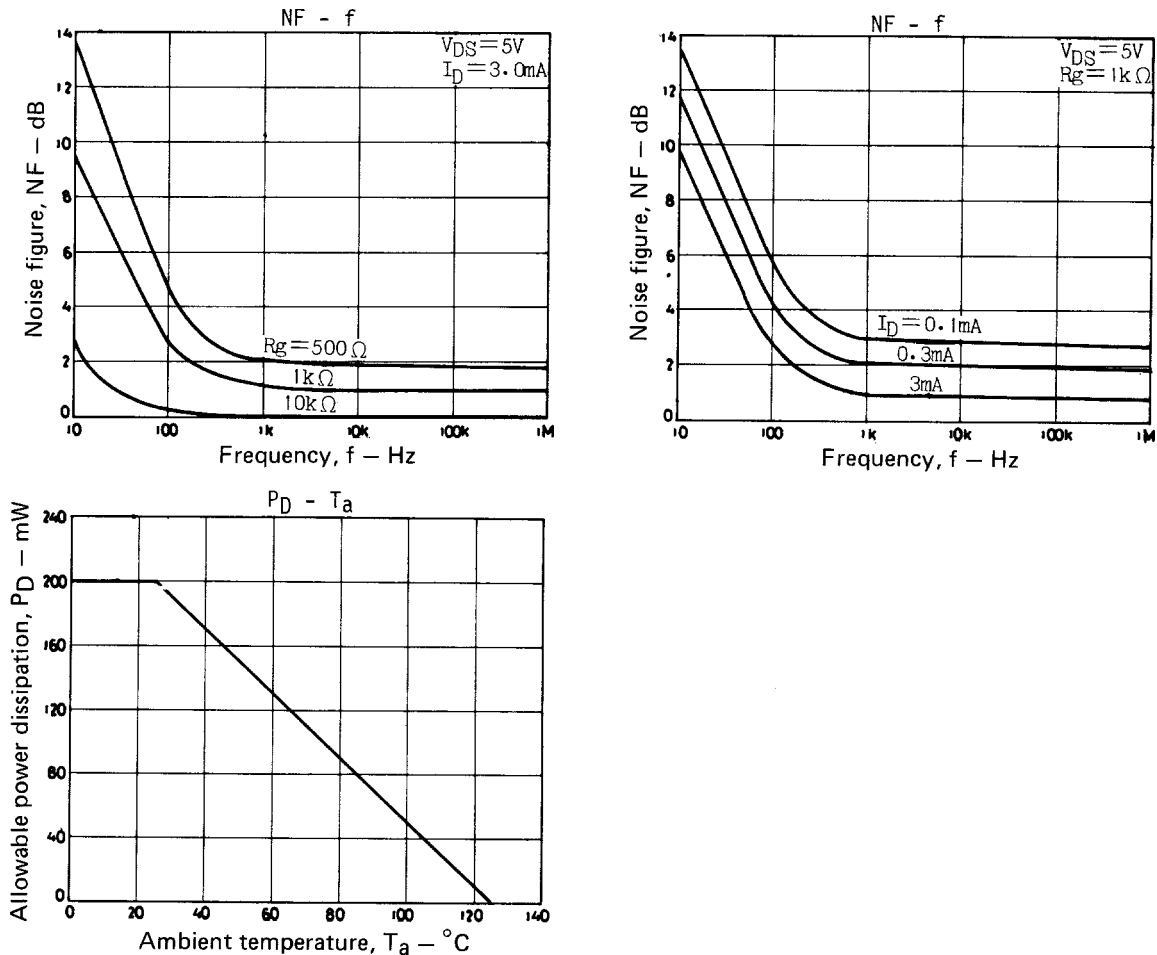
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