



HF Amplifier, AF Amplifier Applications

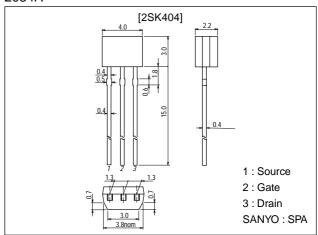
Features

- · 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	IG		10	mA
Drain Current	I _D		20	mA
Allowable Power Dissipation	P _D		200	mW
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

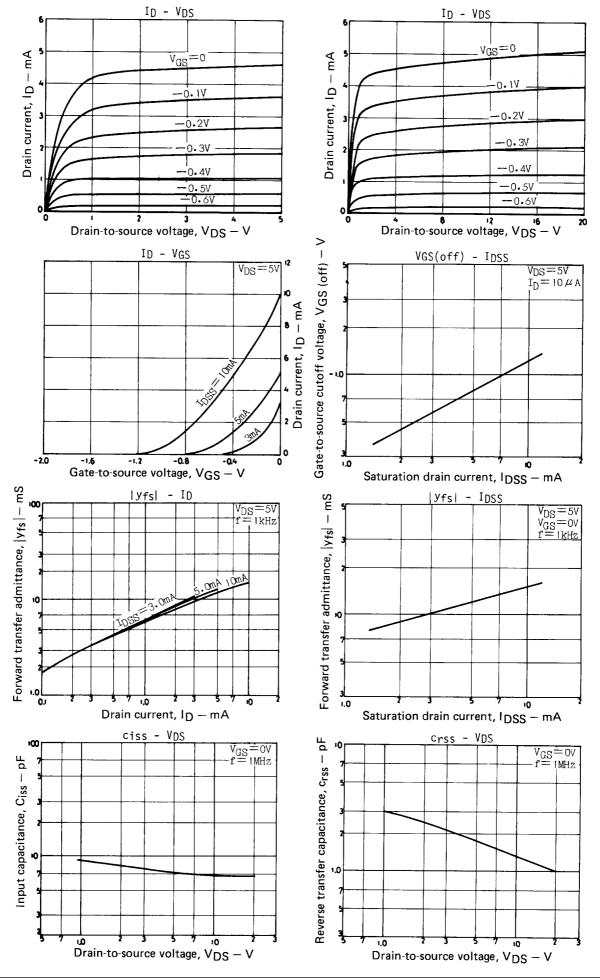
Electrical Characteristics at Ta = 25°C

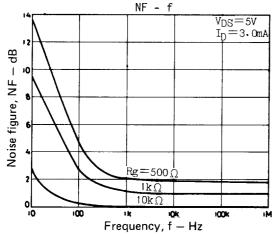
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
Gate-to-Drain Breakdown Voltage	V _(BR) GSS	I _G =-10μA	-20			V
Gate-to-Source Leakage Current	IGSS	V _{GS} =-10V, V _{DS} =0V			-1.0	nA
Zero-Gate Voltage Drain Current	I _{DSS} *	V _{DS} =5V, V _{GS} =0V	1.2*		12.0*	mA
Cutoff Voltage	V _{GS(off)}	V _{DS} =5V, I _D =10μA		-0.8	-2.0	V
Forward Transfer Admittance	yfs	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, Rg =1k Ω , f=1kHz		1.5		dB

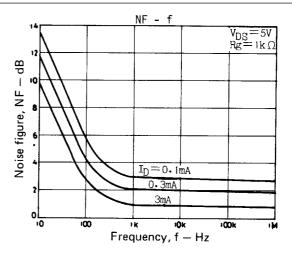
^{*} : The 2SK404 is classified by V_{DS} =5V as follows (unit : mA) :

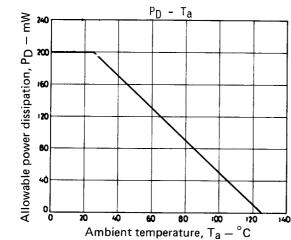
1.2 D 3.0 2.5 E 6.0 5.0 F 12.0

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