



AM Tuner RF Amplifier Applications

Applications

· AM tuner RF amplifiers and low-noise amplifiers.

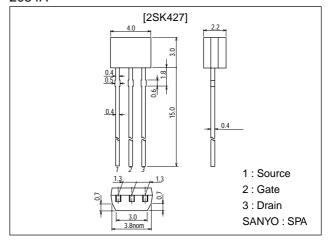
Features

- · Large $|y_{fs}|$.
- · Ultralow noise figure.
- · 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}		15	V
Gate-to-Drain Voltage	V _{GDS}		-15	V
Gate Current	IG		10	mA
Drain Current	ID		20	mA
Allowable Power Dissipation	PD		200	mW
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

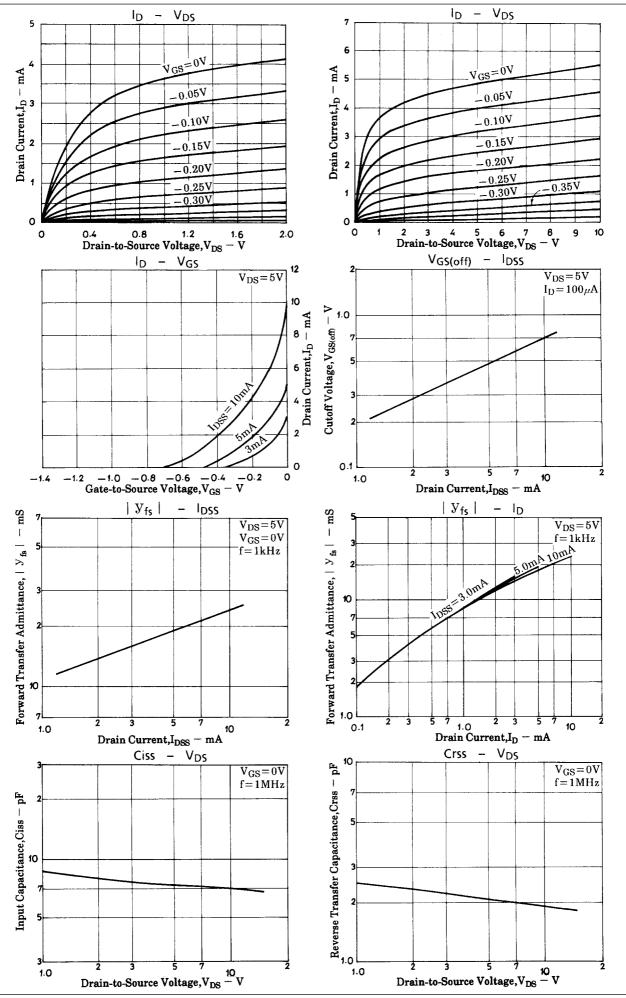
Electrical Characteristics at Ta = 25°C

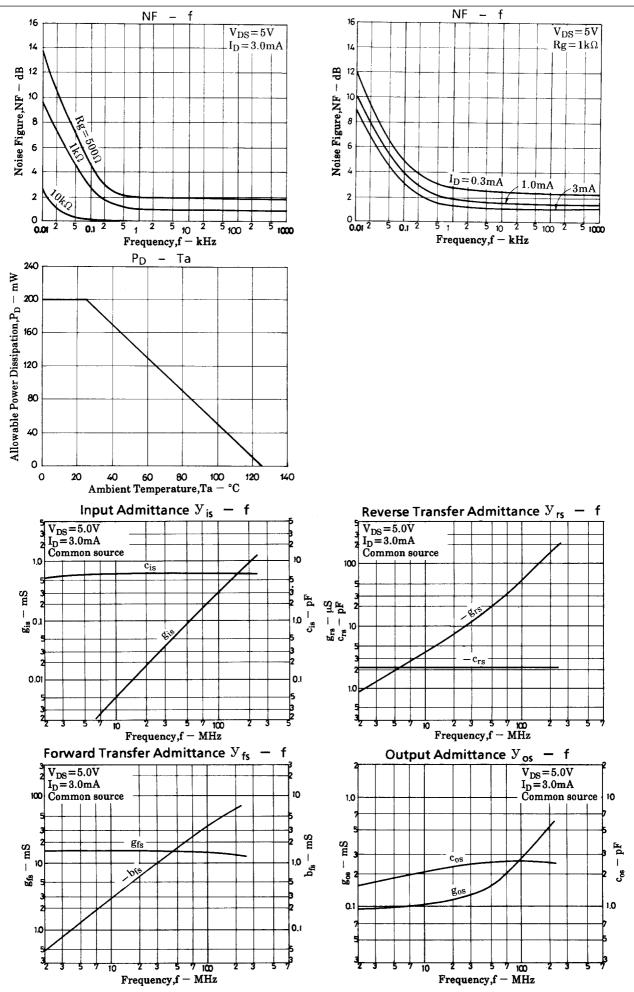
Parameter	Symbol	Conditions	Ratings			Unit
raiametei	Syllibol	Conditions	min	typ	max	01111
Gate-to-Drain Breakdown Voltage	V(BR)GDS	I _G =-10μA, V _{DS} =0	-15			V
Gate-to-Source Leakage Current	IGSS	V _{GS} =-10V, V _{DS} =0			-1.0	nA
Zero-Gate Voltage Drain Current	I _{DSS} *	V _{DS} =5V, V _{GS} =0	1.2*		12.0*	mA
Cutoff Voltage	VGS(off)	V _{DS} =5V, I _D =100μA		-0.5	-1.5	V
Forward Transfer Admittance	yfs	$V_{DS}=5V$, $V_{GS}=0$, $f=1kHz$	8.0	17		mS
Input Capacitance	Ciss	V_{DS} =5V, V_{GS} =0, f=1MHz		7.0		pF
Reverse Transfer Capacitance	Crss	V_{DS} =5V, V_{GS} =0, f=1MHz		2.0		pF
Noise Figure	NF	V_{DS} =5V, I_{D} =1mA, Rg =1k Ω , f=1kHz		1.5		dB

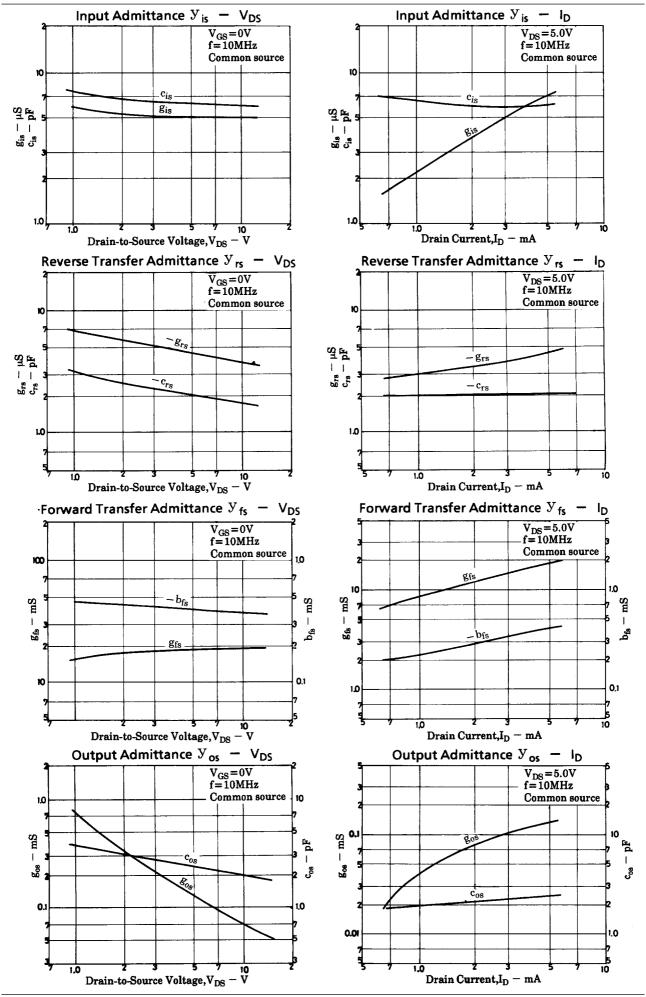
^{*:} The 2SK427 is classified by I_{DSS} as follows: (unit: mA)

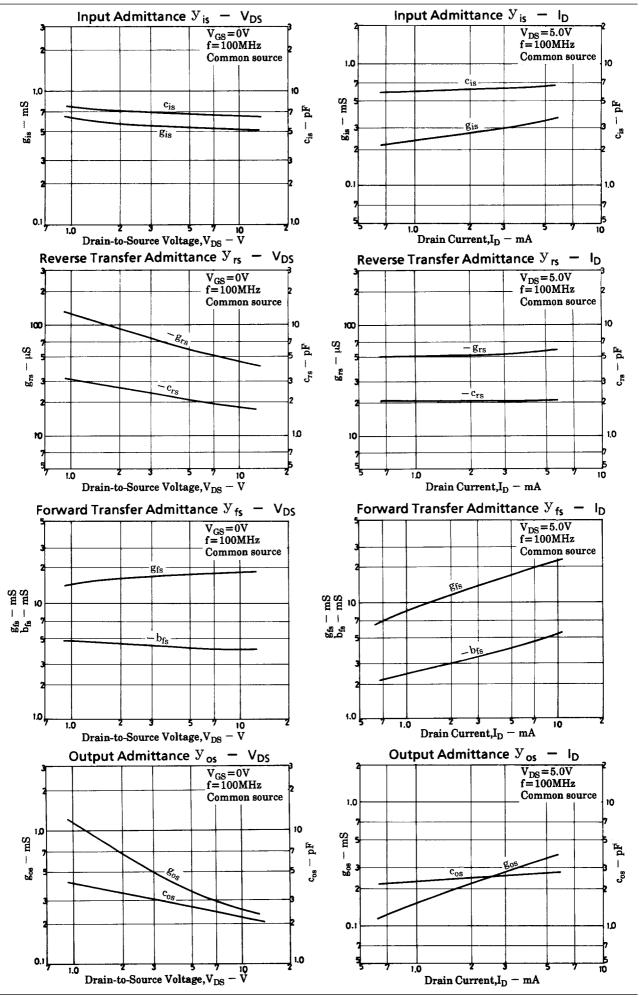
1.2	Р	2.1	1.7	Q	3.0	2.5	R	4.2
3.5	S	6.0	5.0	Т	8.5	7.3	U	12.0

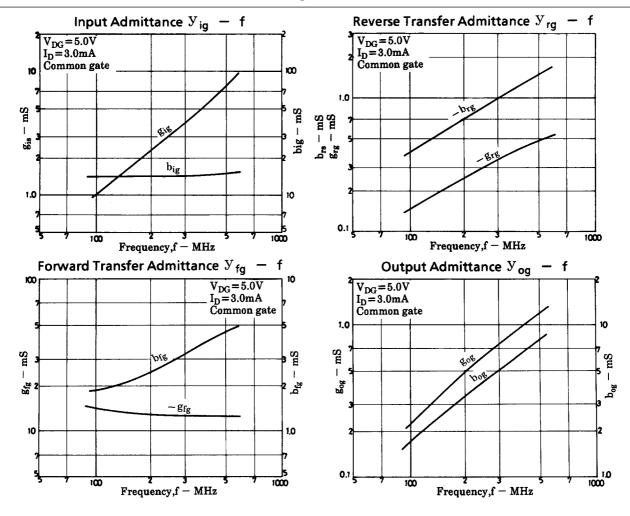
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