

2SK1066

High-Frequency General-Purpose Amplifier Applications

Applications

- · High-frequency general-purpose amplifier.
- · AM tuner RF amplifier.
- · Low-noise amplifier.

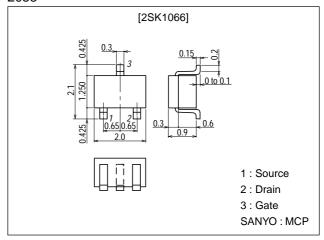
Features

- · Large $|y_{fs}|$.
- · Small Crss.
- · Ultralow noise figure.
- · Ultrasmall-sized package permitting 2SK1066-applied sets to be made smaller and slimmer.

Package Dimensions

unit:mm

2058



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		20	mA
Allowable Power Dissipation	P _D		150	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	Offic
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	IDSS	V _{DS} =5V, V _{GS} =0	3.5*		12.0*	mA
Cutoff Voltage	VGS(off)	V _{DS} =5V, I _D =100μA	-0.2	-0.5	-1.5	V
Forward Transfer Admittance	yfs	V_{DS} =5V, V_{GS} =0, f=1kHz	10	17		mS

 \ast : The 2SK1066 is classified by I_{DSS} as follows (unit : mA) :

3.5 20 6.0 5.0 21 8.5 7.3 22 12.0

(Note) Marking: A

I_{DSS} rank : 20, 21, 22

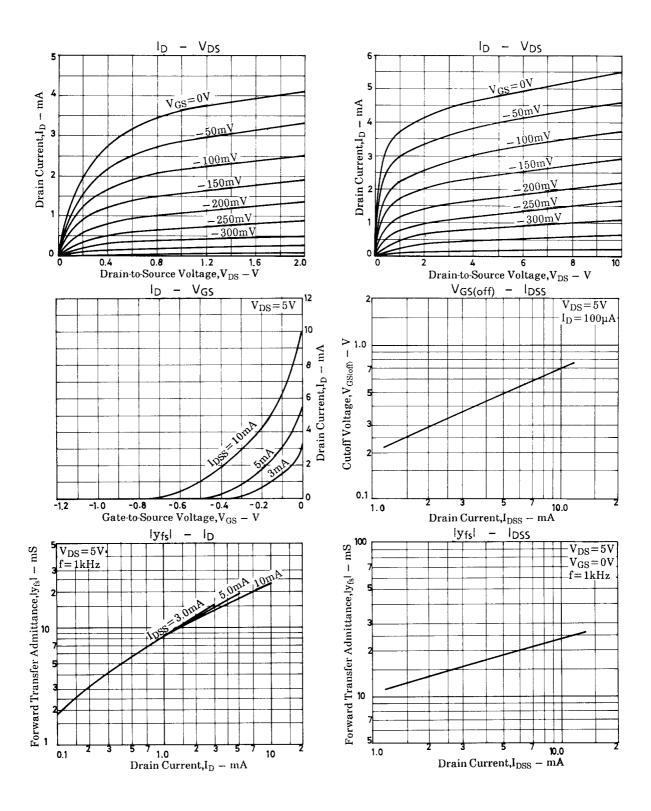
• For CP package version, use the 2SK436.

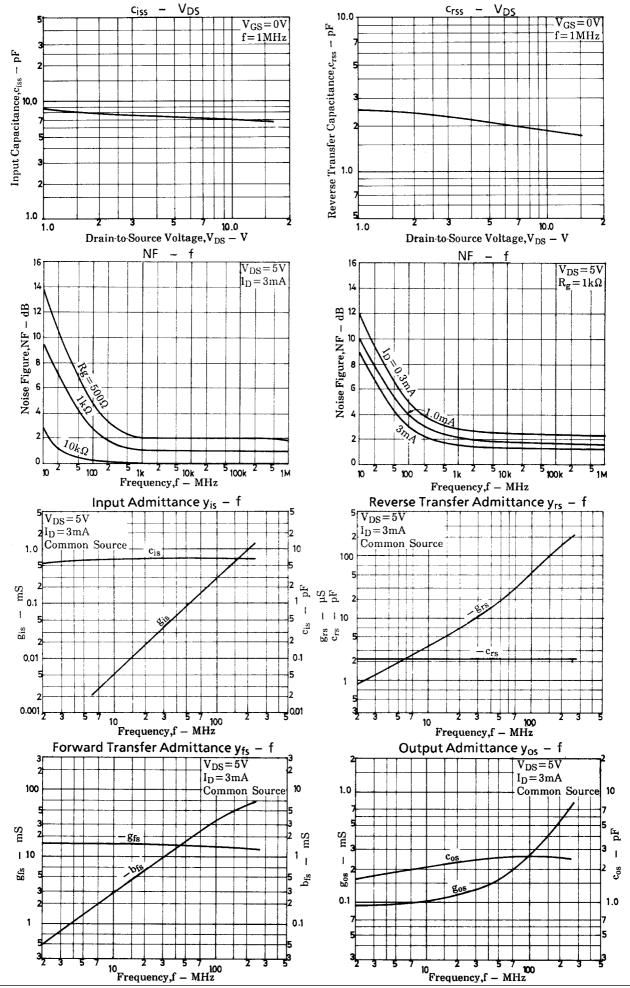
- Continued on next page.
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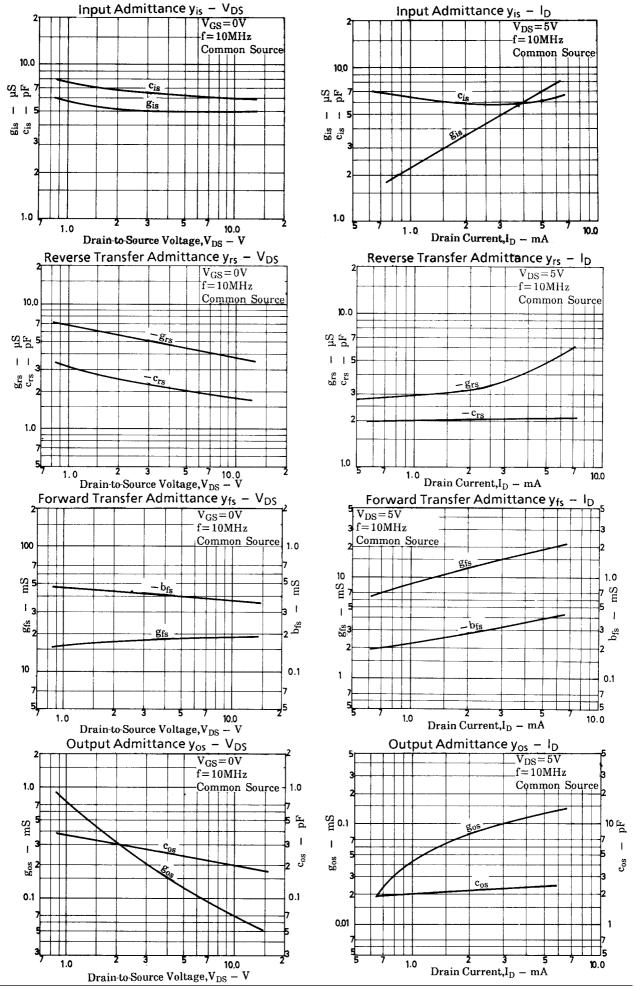
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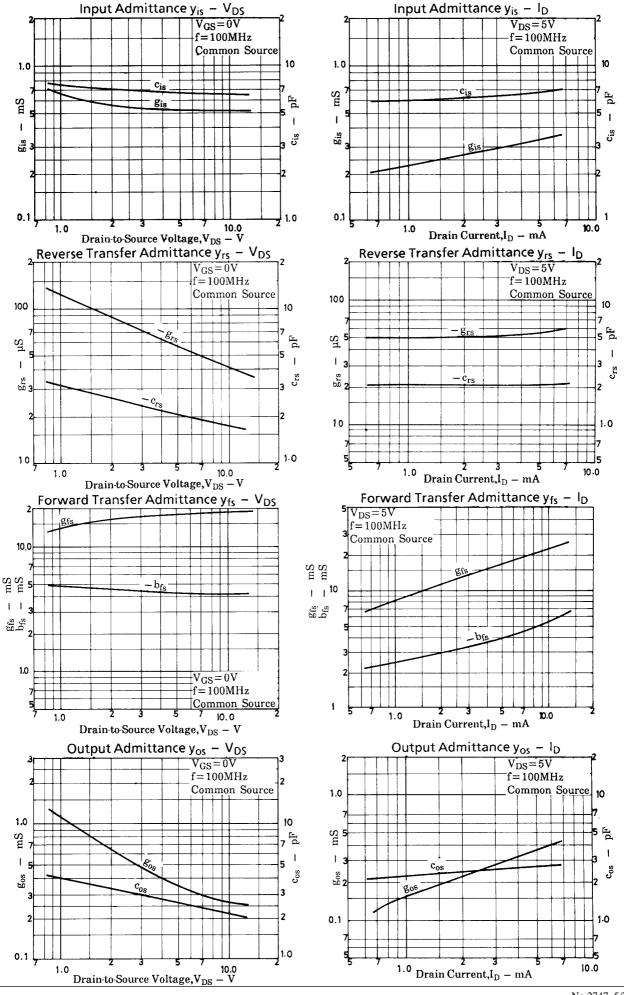
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Parameter	Symbol	Conditions	Ratings	Unit
Input Capacitance	Ciss	V _{DS} =5V, V _{GS} =0, f=1MHz	7.0	pF
Reverse Transfer Capacitance	Crss	V_{DS} =5V, V_{GS} =0, f=1MHz	2.0	pF
Noise Figure	NF	V_{DS} =5V, Rg=1k Ω , I $_{D}$ =1mA, f=1kHz	1.5	dB

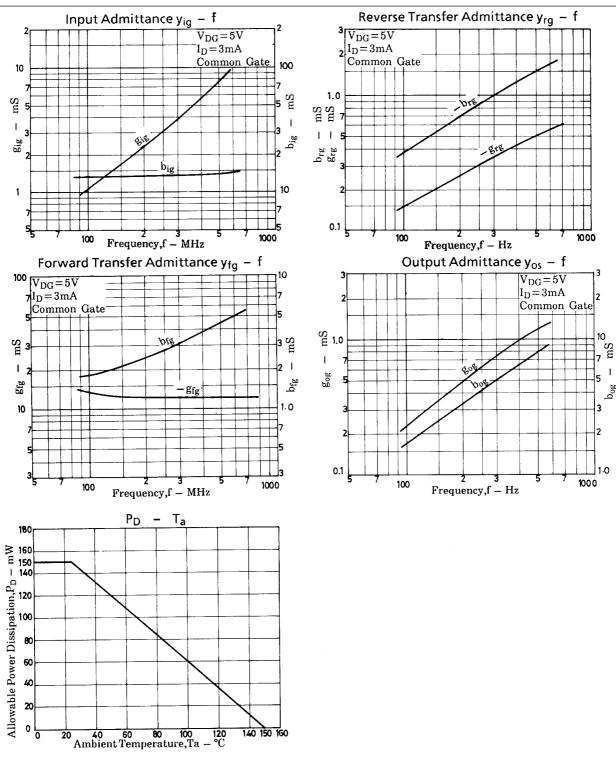








2SK1066



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