

**2SK1065**

High-Frequency General-Purpose Amplifier Applications

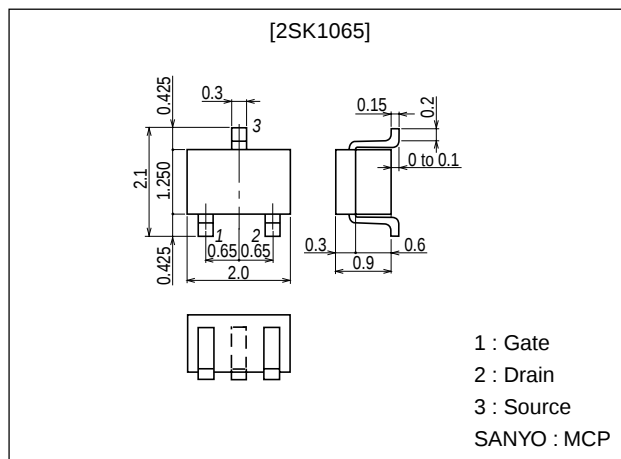
Features

- Ultrasmall-sized package permitting 2SK1065-applied sets to be made smaller and slimmer.
- Small Crss (Crss=0.04pF typ).

Package Dimensions

unit:mm

2057



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Gate-to-Drain Voltage	V_{GDO}		-20	V
Gate Current	I_G		10	mA
Drain Current	I_D		20	mA
Allowable Power Dissipation	P_D		150	mW
Junction Temperature	T_J		150	°C
Storage Temperature	T_{stg}		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	$V_{(BR)GDO}$	$I_G = -10\mu A$	-20			V
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS} = -0.5V, V_{DS} = 0$			-10	nA
Zero-Gate Voltage Drain Current	I_{DSS}	$V_{DS} = 5V, V_{GS} = 0$	1.2*		12.0*	mA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 5V, I_D = 10\mu A$	-0.4	-1.3	-2.5	V
Forward Transfer Admittance	yfs 1	$V_{DS} = 5V, V_{GS} = 0, f = 1kHz$	2.4	6.0		mS
	yfs 2	$V_{DS} = 5V, V_{GS} = 0, f = 100MHz$	2.4	6.0		mS

* : The 2SK1065 is classified by I_{DSS} as follows (unit : mA) :

1.2	3	3.0	2.5	4	6.0	5.0	5	12.0
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(Note) Marking : T

 I_{DSS} rank : 3, 4, 5

• For CP package version, use the 2SK242.

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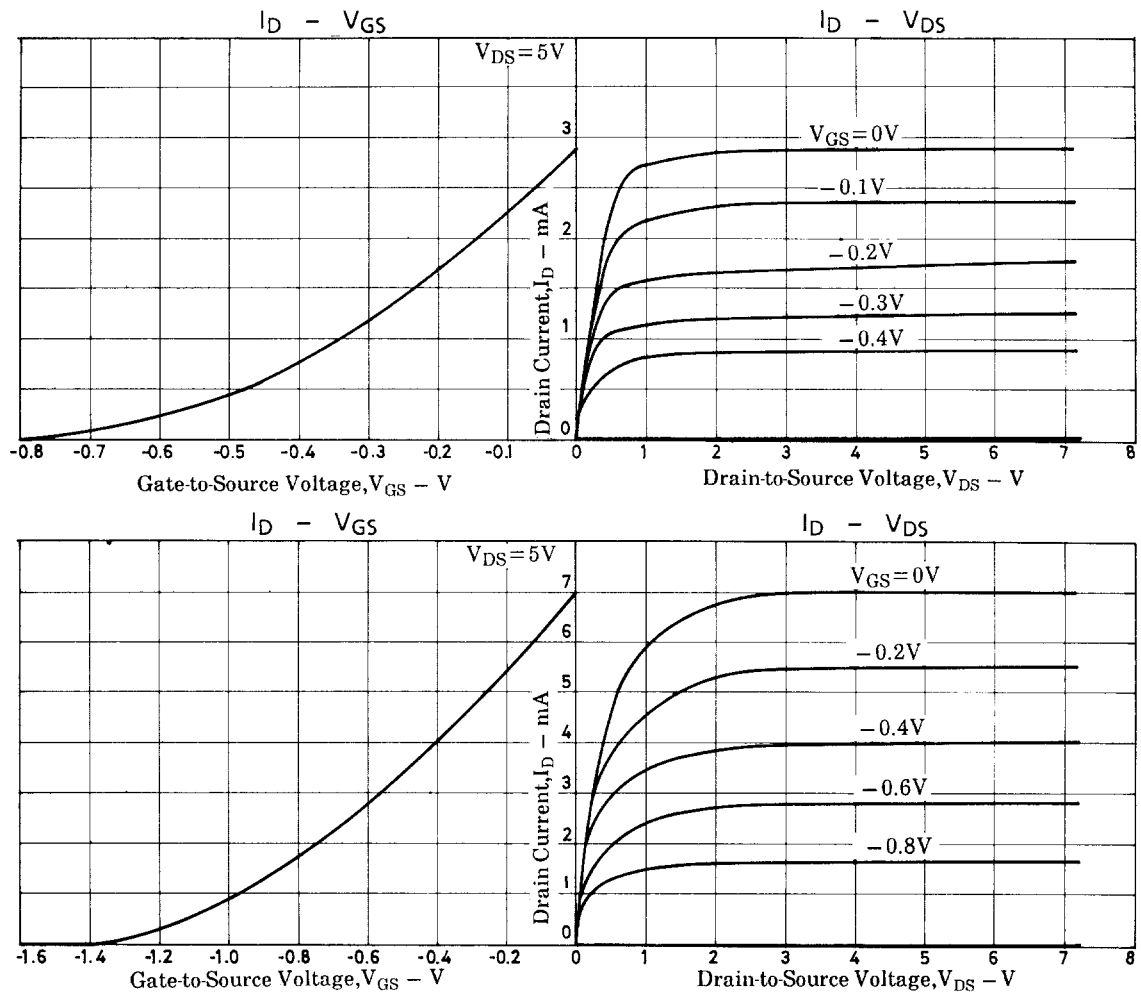
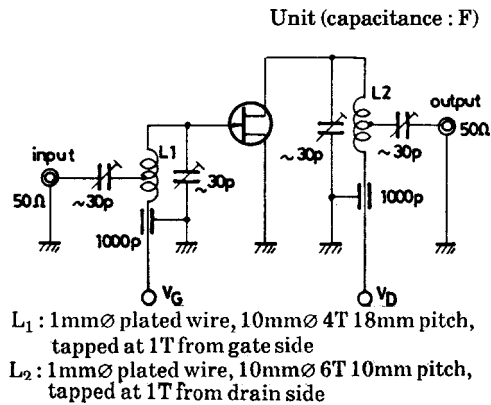
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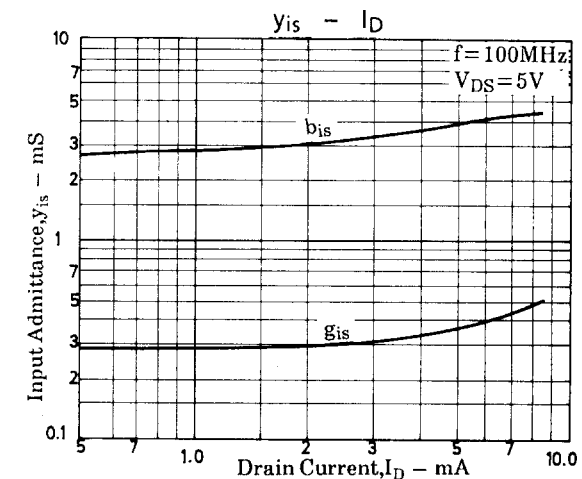
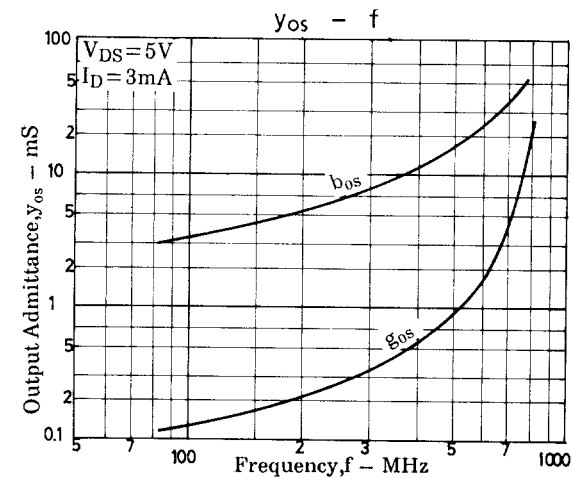
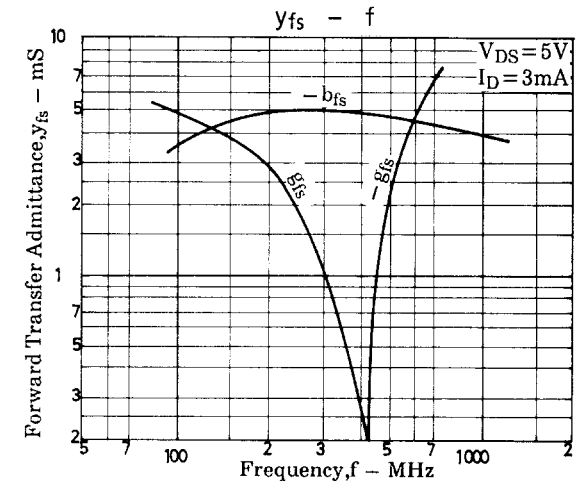
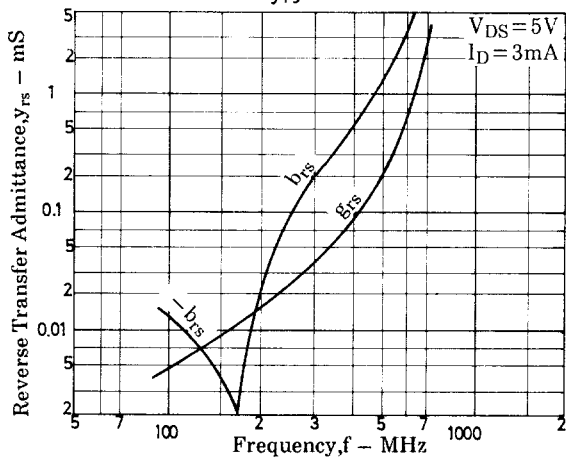
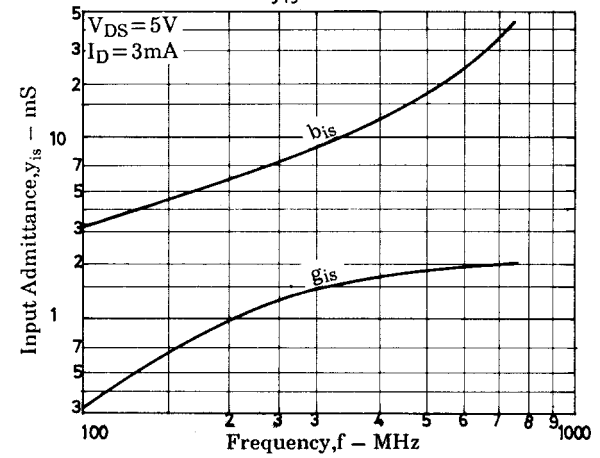
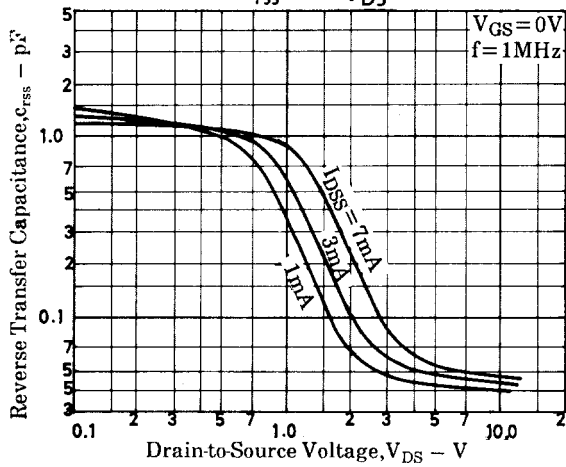
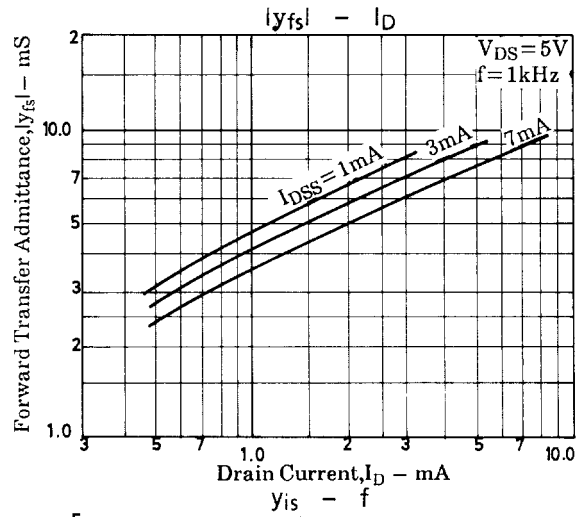
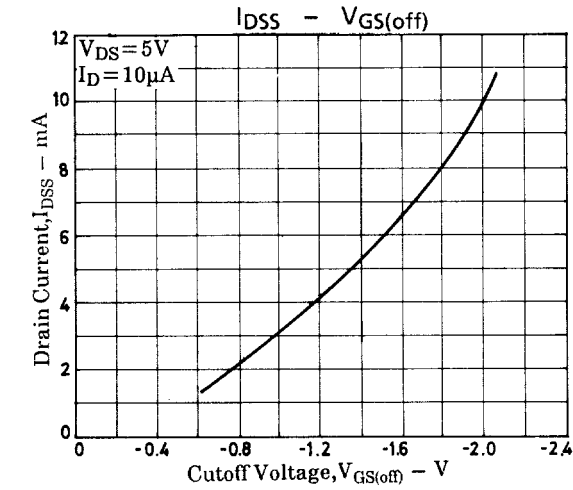
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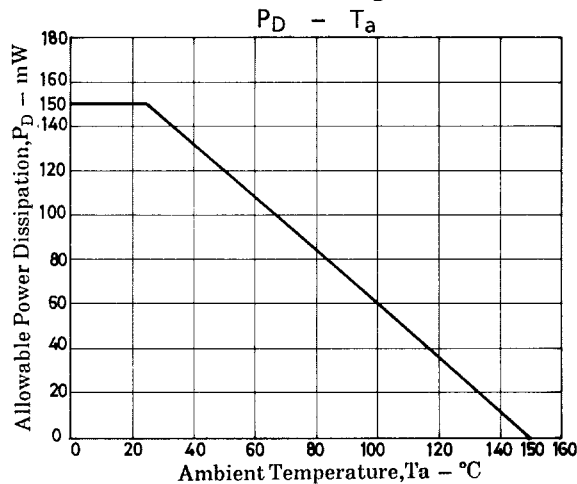
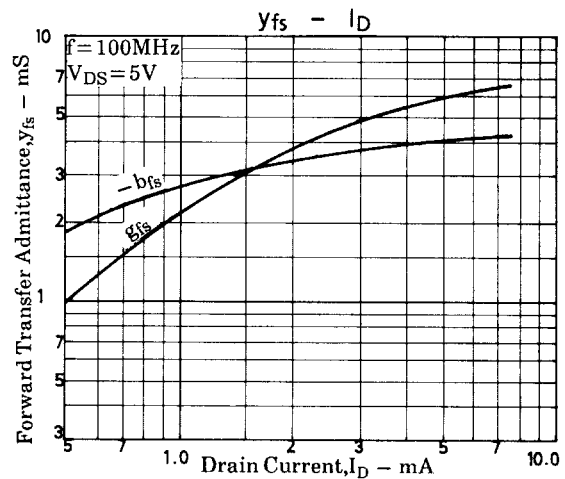
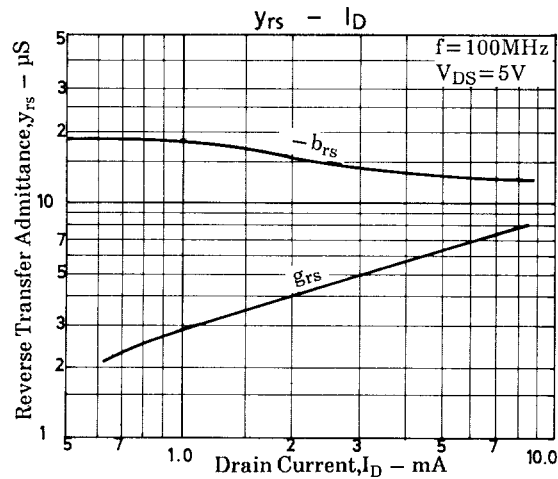
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Parameter	Symbol	Conditions	Ratings		Unit
Input Capacitance	Ciss	$V_{DS}=5V, V_{GS}=0, f=1MHz$	4.0		pF
Reverse Transfer Capacitance	Crss	$V_{DS}=5V, V_{GS}=0, f=1MHz$	0.04	0.15	pF
Output Capacitance	Coss	$V_{DS}=5V, V_{GS}=0, f=1MHz$	4.0		pF
Power Gain	PG	$V_{DS}=5V, V_{GS}=0, f=100MHz$, See specified Test Circuit	24		dB
Noise Figure	NF	See specified Test Circuit	3.5	6.0	dB

PG, NF Specified Test Circuit







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