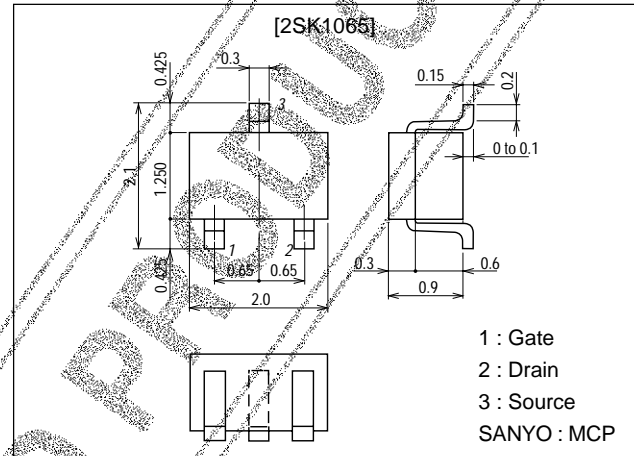


SANYO**2SK1065****High-Frequency
General-Purpose Amplifier Applications****Features**

- Ultrasmall package facilitates miniaturization in end products.
- Small Crss (Crss=0.04pF typ).

Package Dimensionsunit:mm
2057A**Specifications****Absolute Maximum Ratings** at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Gate-to-Drain Voltage	V _{GD0}		-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)GD0}	I _G = -10μA	-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 = 10μA	-0.4	-1.3	-2.5	V
Forward Transfer Admittance	y _{fs} ₁	V _{DS} = 5V, V _{GS} = 0, f = 1kHz	2.4	6.0		mS
	y _{fs} 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) :

I _{DSS} rank	3	4	5
I _{DSS}	1.2 to 3.0	3.5 to 6.0	5.0 to 12.0

(Note) Marking : T

- For CP package version, use the 2SK242.

Continued on next page.

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■ SANYO assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all SANYO products described or contained herein.

SANYO Electric Co., Ltd. Semiconductor Company

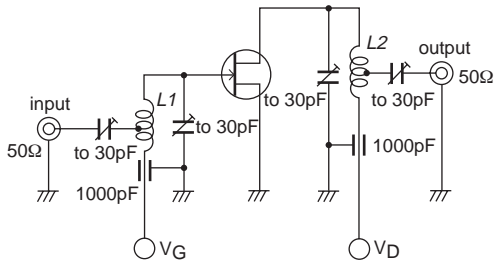
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

2SK1065

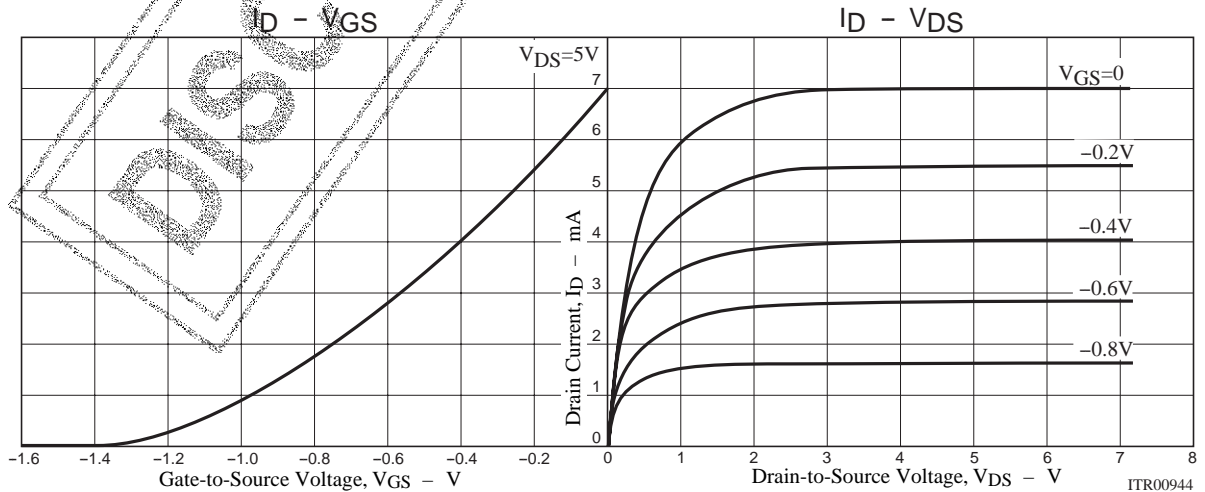
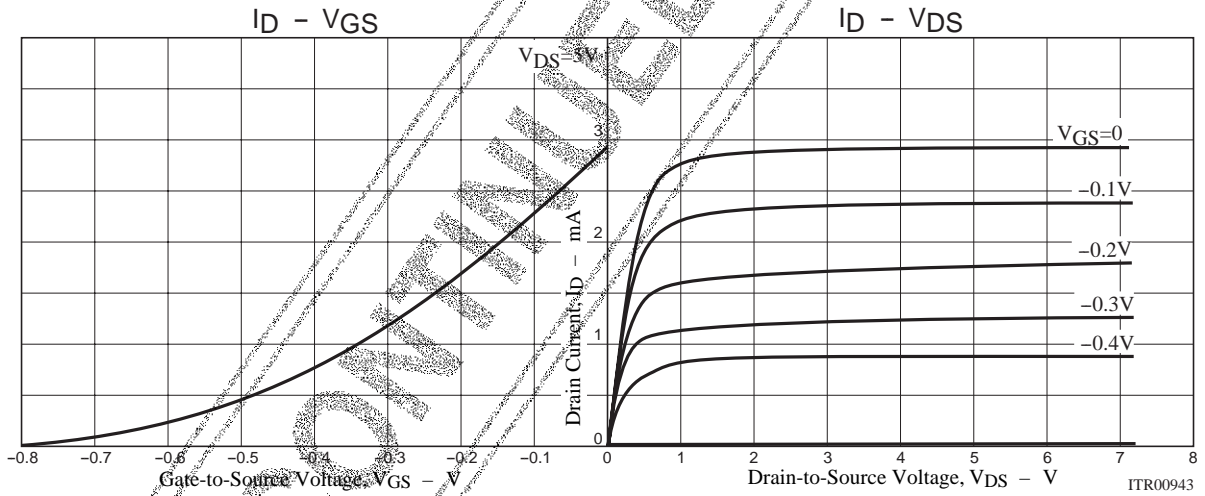
Continued from preceding page.

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

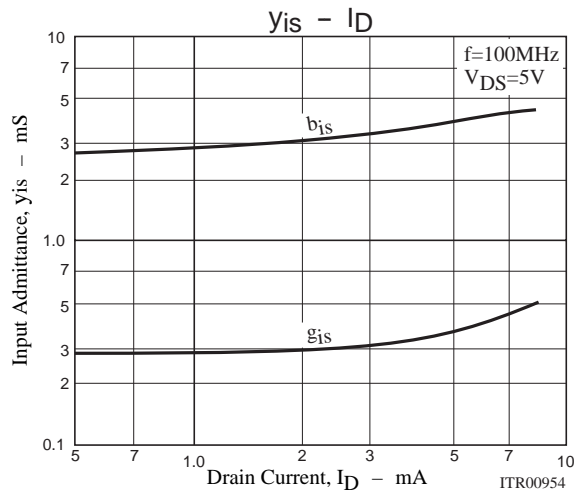
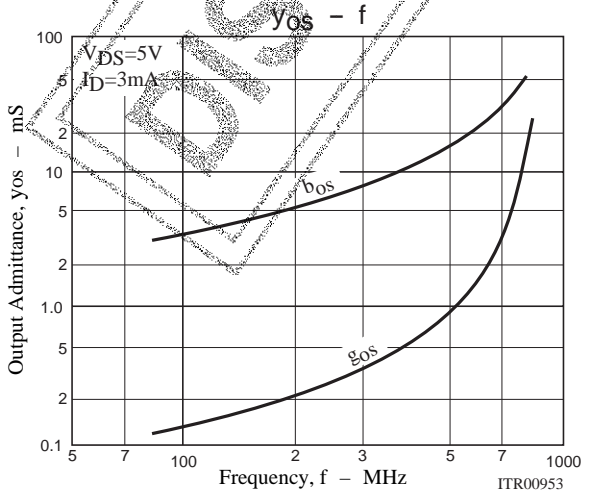
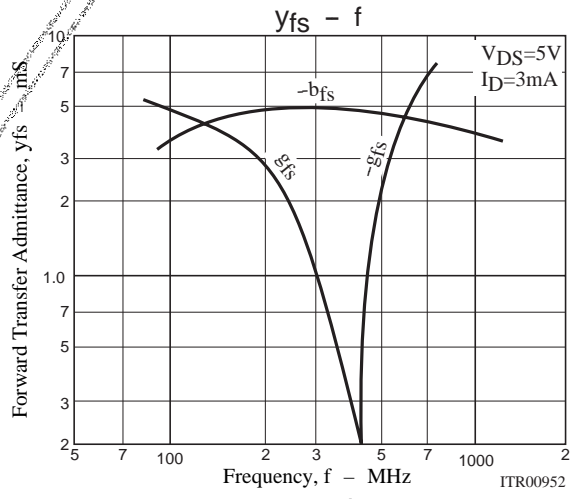
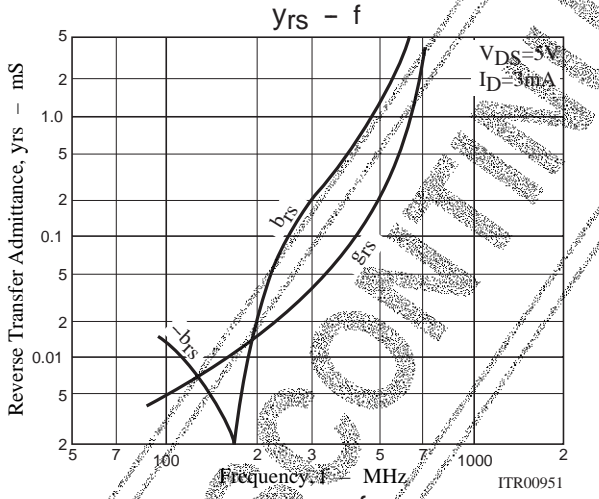
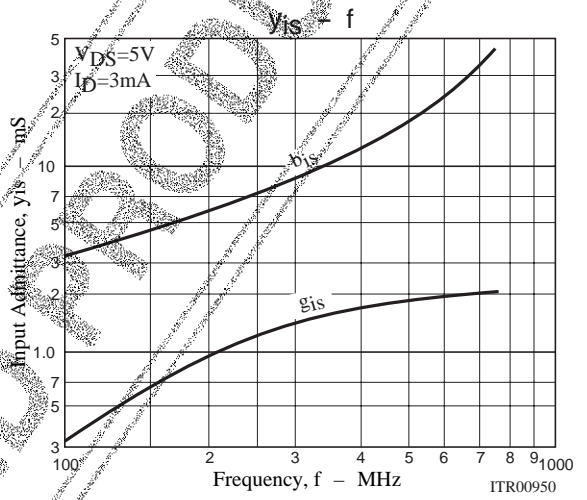
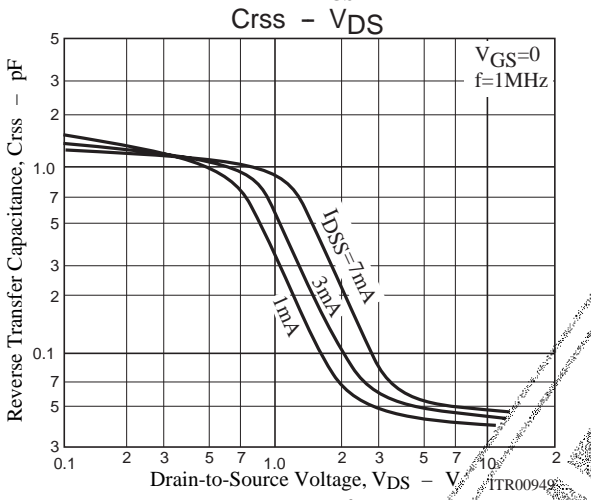
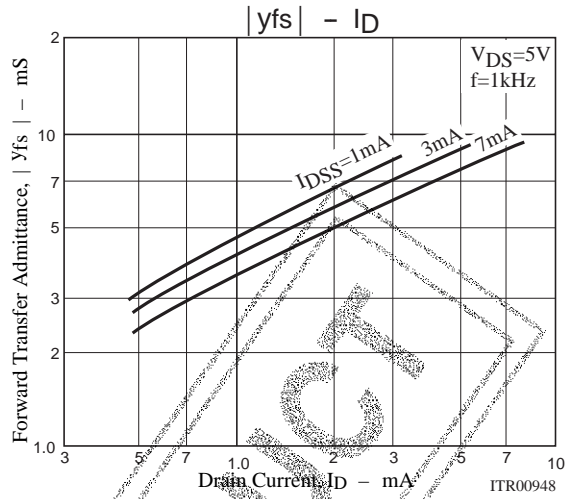
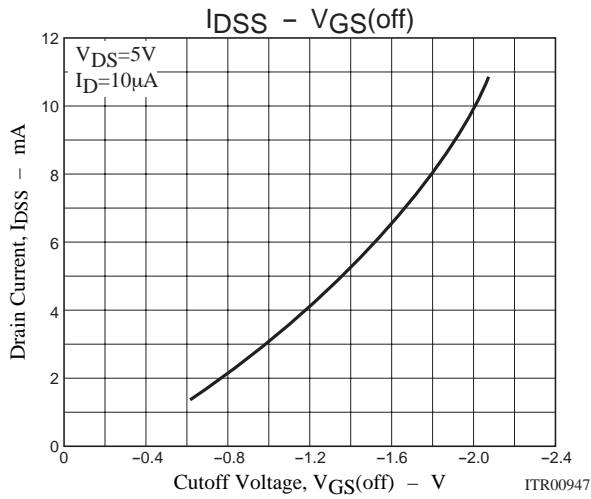
PG and NF Test Circuit



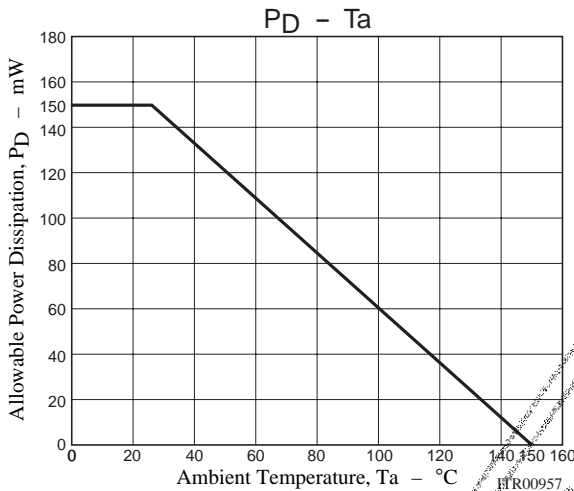
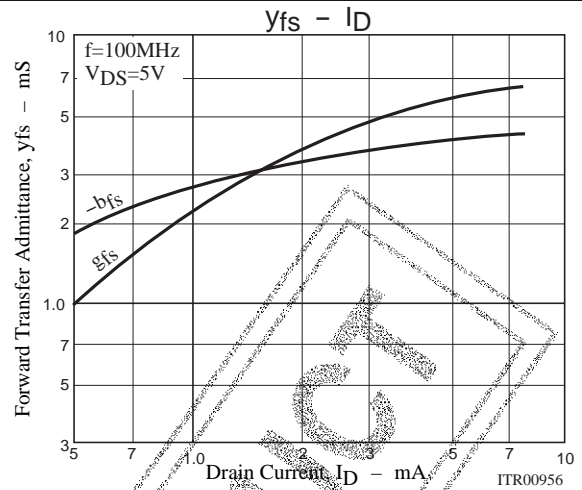
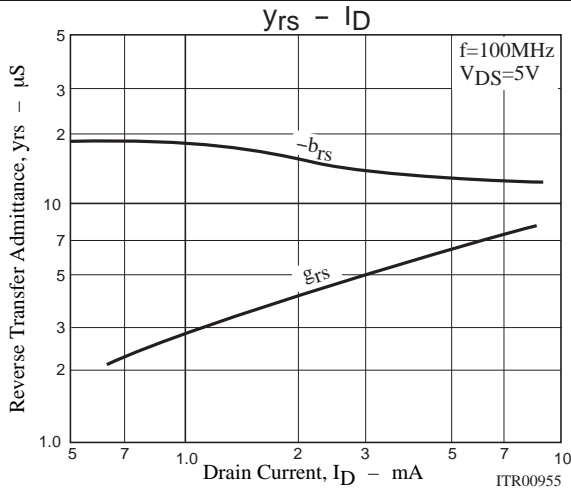
L1 : 1mm ϕ plated wire, 10mm ϕ 4T 18mm pitch,
tapped at 1T from gate side
L2 : 1mm ϕ plated wire, 10mm ϕ 6T 10mm pitch,
tapped at 1T from gate side



2SK1065



2SK1065



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