

SANYO	No.1404B	2SK427
		N-Channel Junction Silicon FET

AM Tuner RF Amp Applications

Applications

- AM tuner RF amps and low-noise amps.

Features

- Large $|Y_{fs}|$.
- Ultralow noise figure.
- Small Crss.

Absolute Maximum Ratings at Ta = 25°C

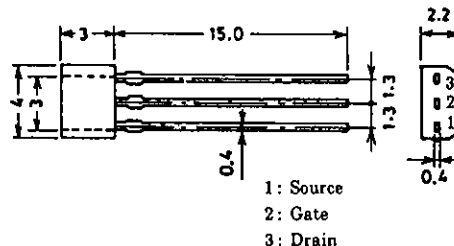
			unit
Drain-to-Source Voltage	V_{DSS}	15	V
Gate-to-Drain Voltage	V_{GDS}	-15	V
Gate Current	I_G	10	mA
Drain Current	I_D	20	mA
Allowable Power Dissipation	P_D	200	mW
Junction Temperature	T_j	125	°C
Storage Temperature	T_{stg}	-55 to +125	°C

Electrical Characteristics at Ta = 25°C

			min	typ	max	unit
G-D Breakdown Voltage	$V_{(BR)GDS}$	$I_G = -10\mu A, V_{DS} = 0$	-15			V
Gate Cutoff Current	I_{GSS}	$V_{GS} = -10V, V_{DS} = 0$			-1.0	nA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 5V, I_D = 100\mu A$		-0.5	-1.5	V
Drain Current	I_{DSS}	$V_{DS} = 5V, V_{GS} = 0$	1.2*		12.0*	mA
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS} = 5V, V_{GS} = 0, f = 1kHz$	8.0	17		mS
Input Capacitance	C_{iss}	$V_{DS} = 5V, V_{GS} = 0, f = 1MHz$		7.0		pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS} = 5V, V_{GS} = 0, f = 1MHz$		2.0		pF
Noise Figure	NF	$V_{DS} = 5V, I_D = 1mA, R_g = 1k\Omega, f = 1kHz$		1.5		dB

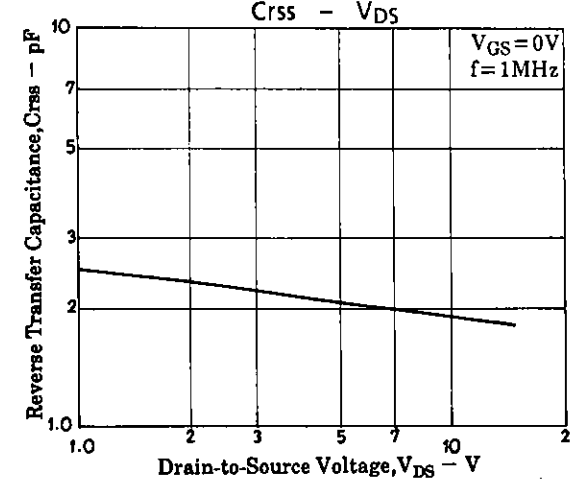
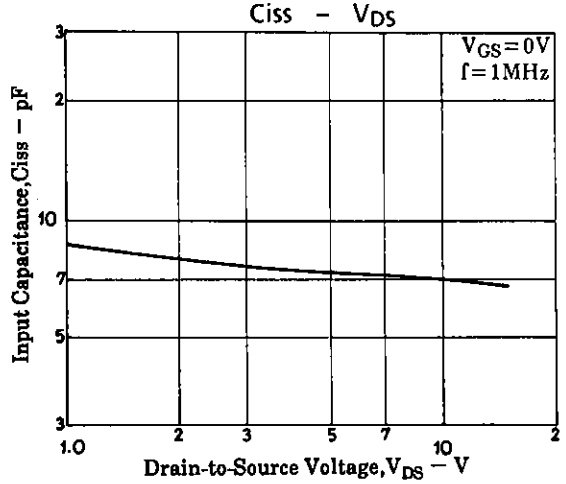
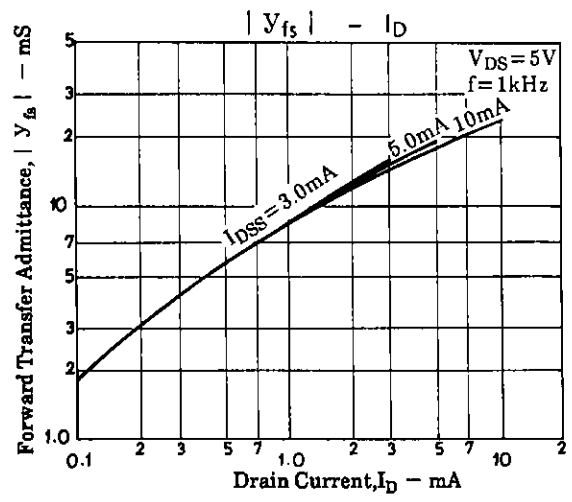
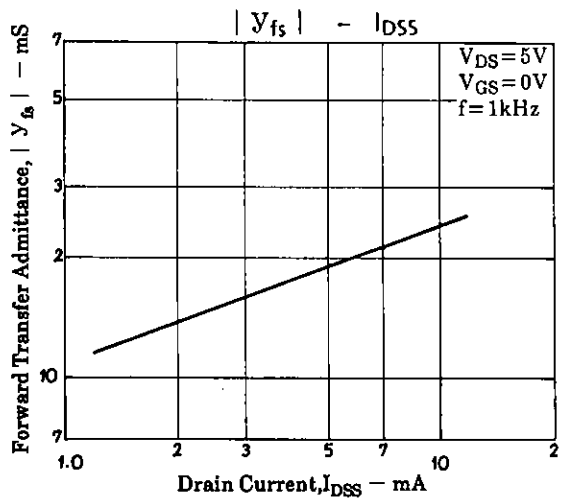
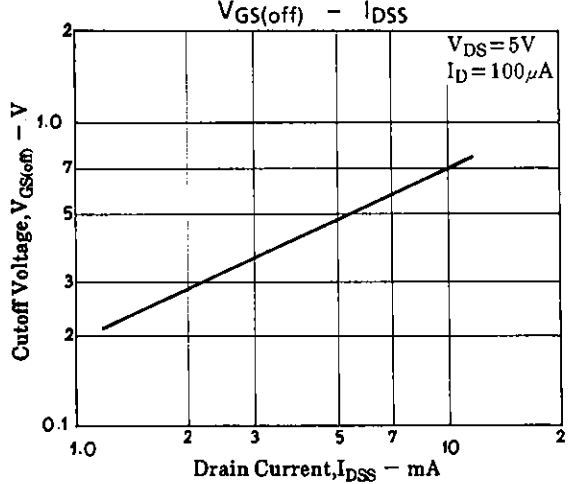
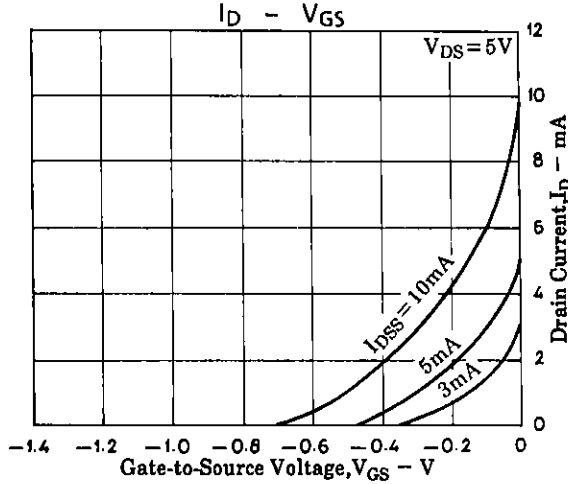
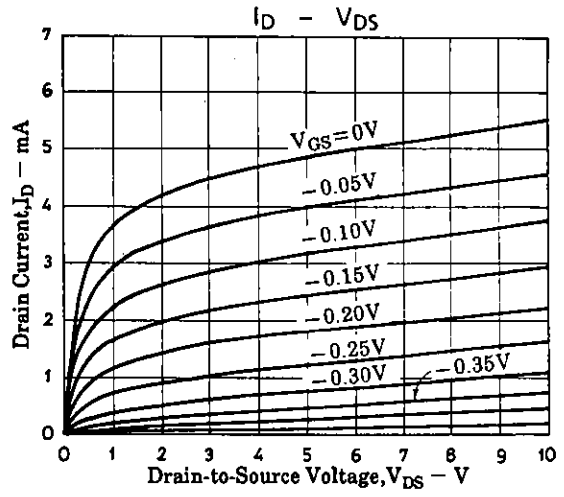
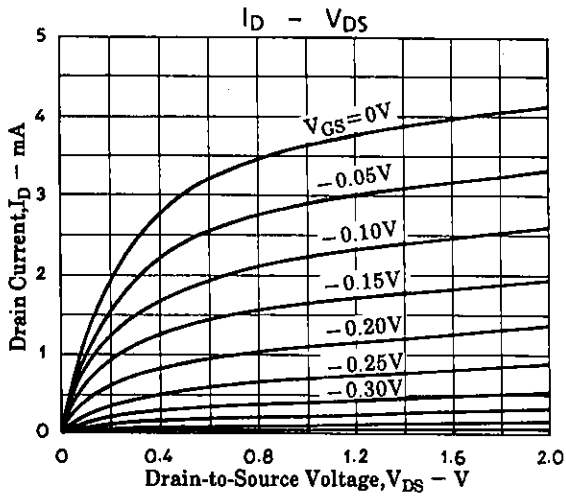
* : The 2SK427 is classified by I_{DSS} as follows : (unit : mA)

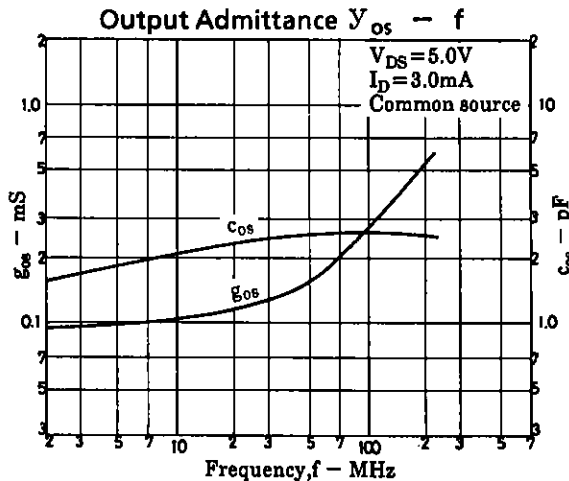
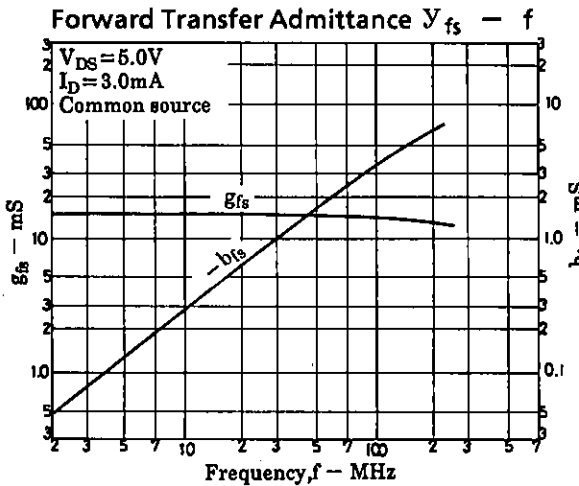
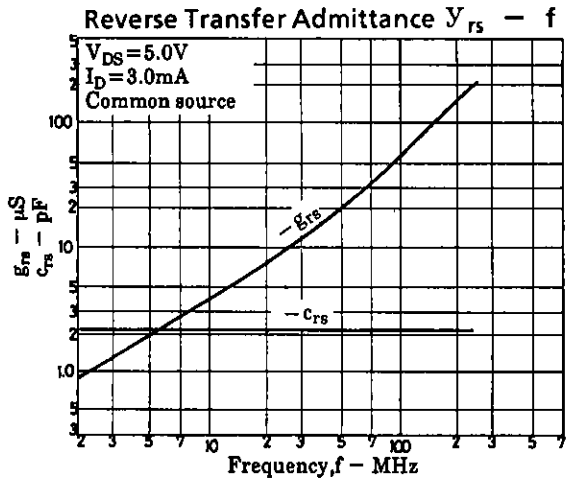
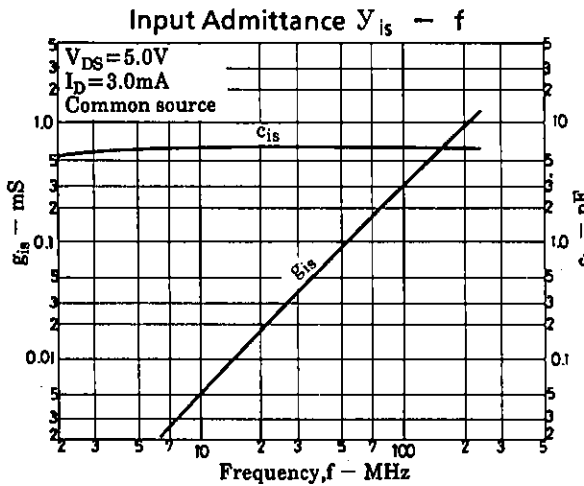
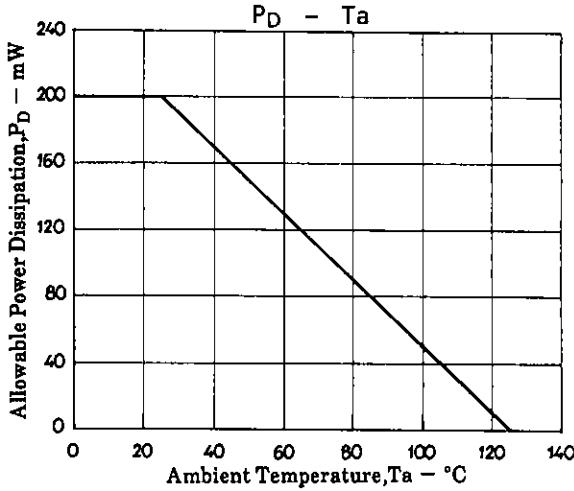
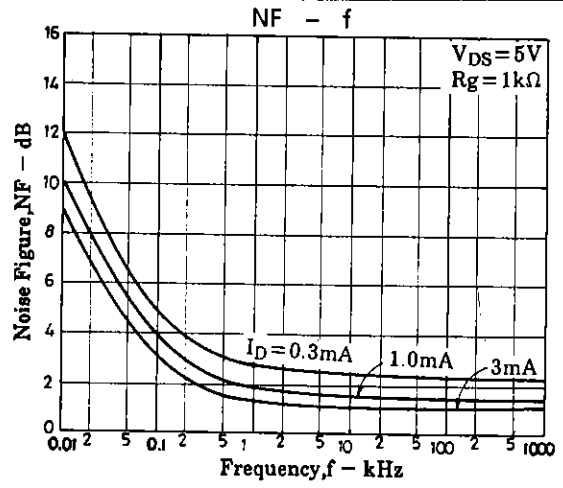
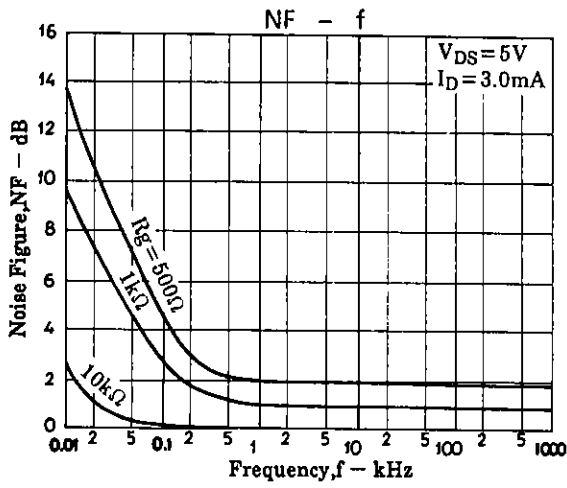
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3.5 S 6.0	5.0 T 8.5	7.3 U 12.0

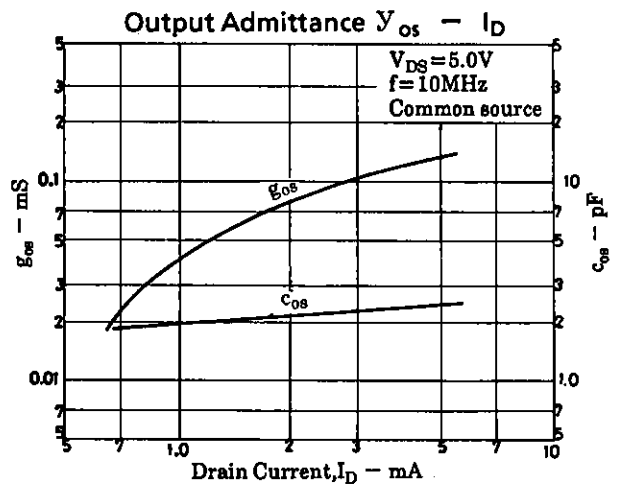
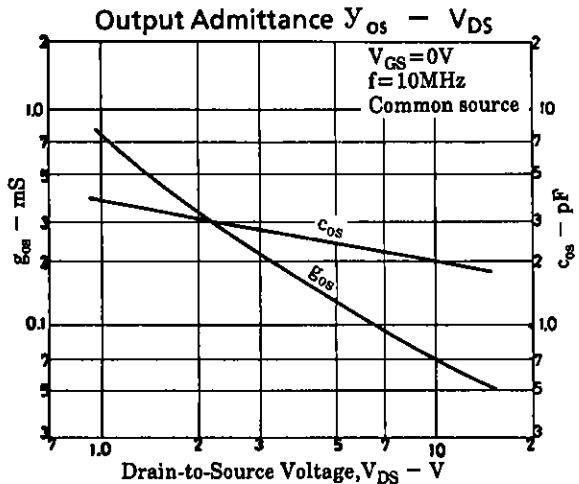
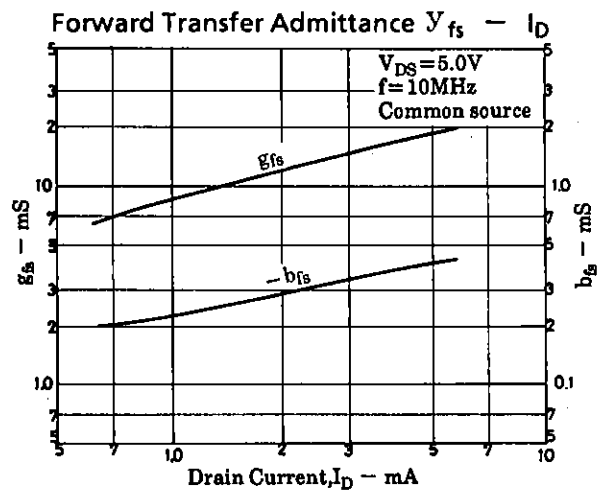
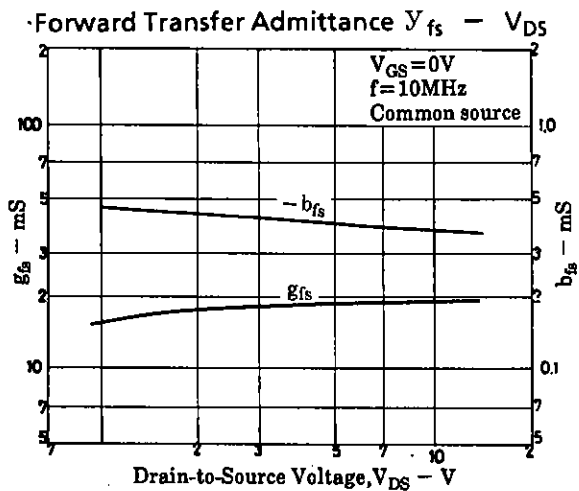
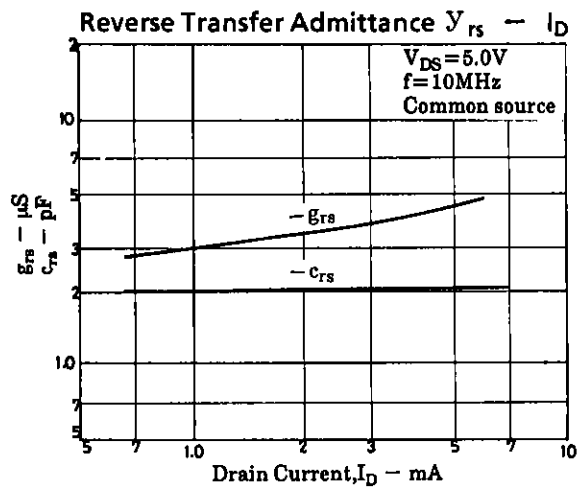
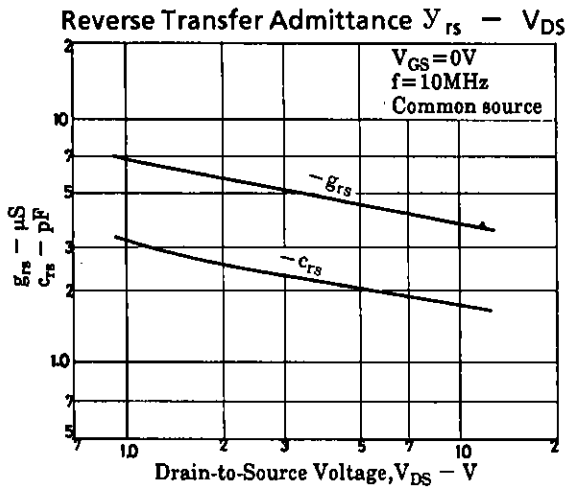
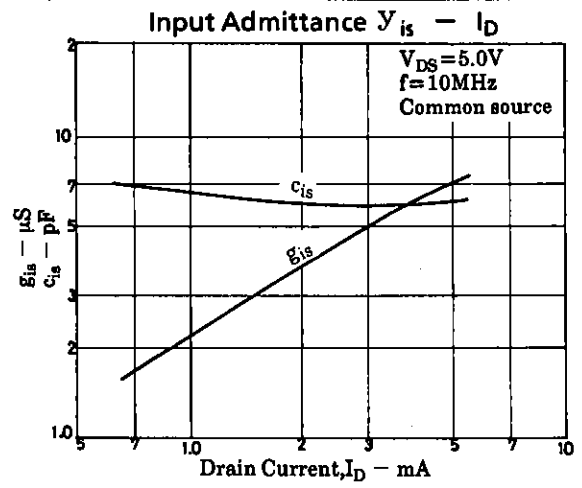
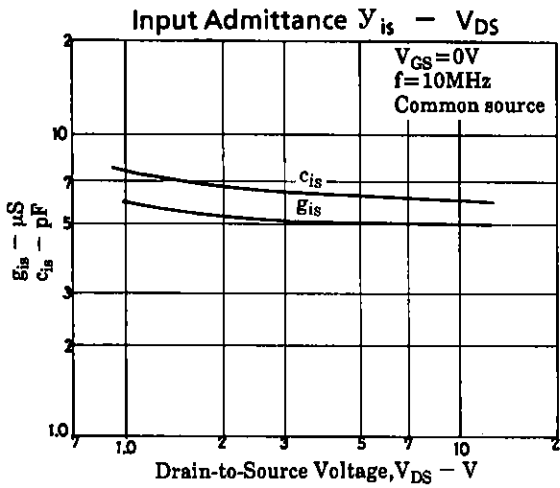
Package Dimensions 2034A
(unit : mm)

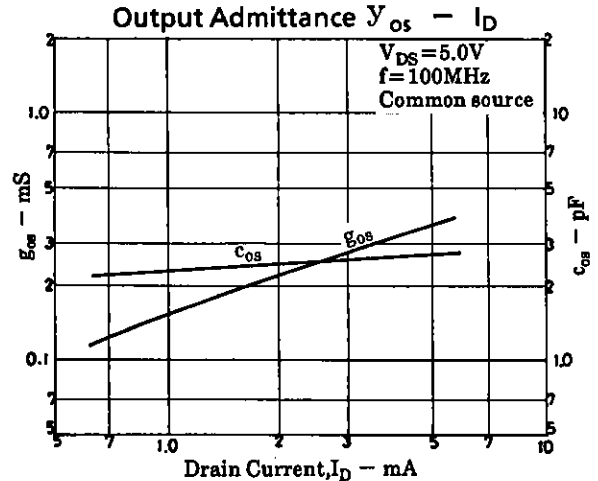
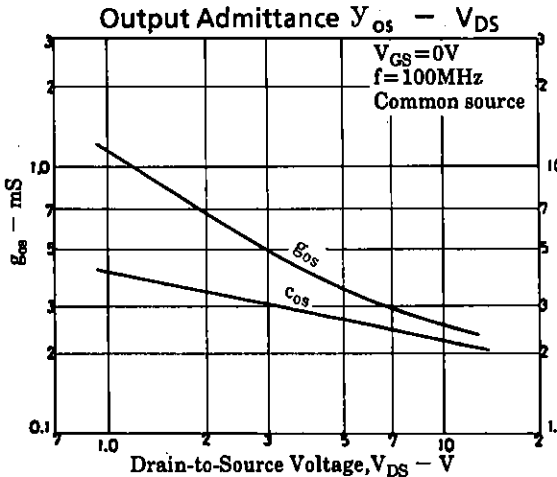
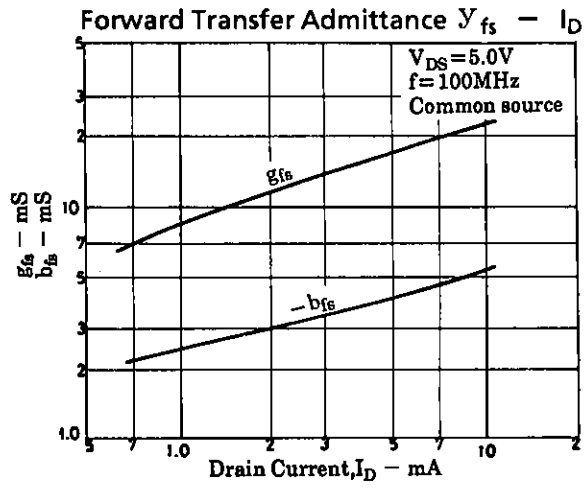
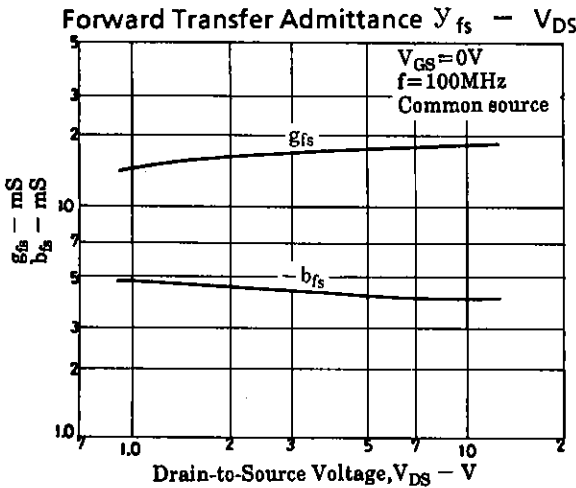
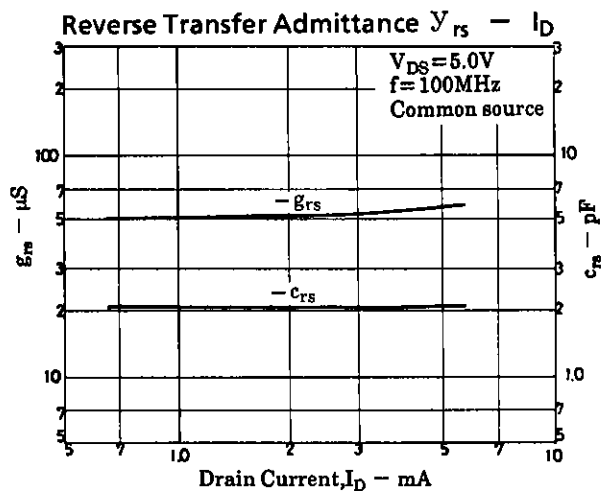
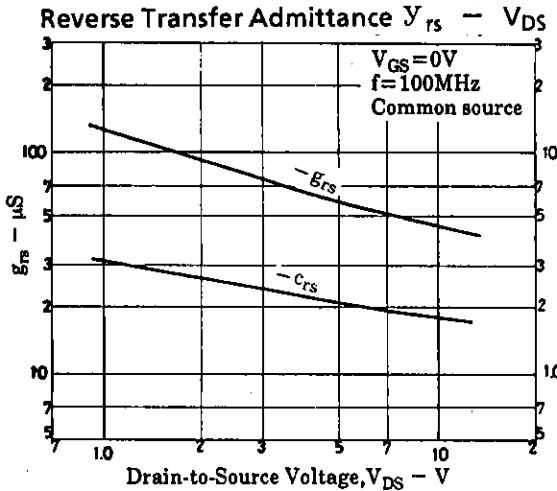
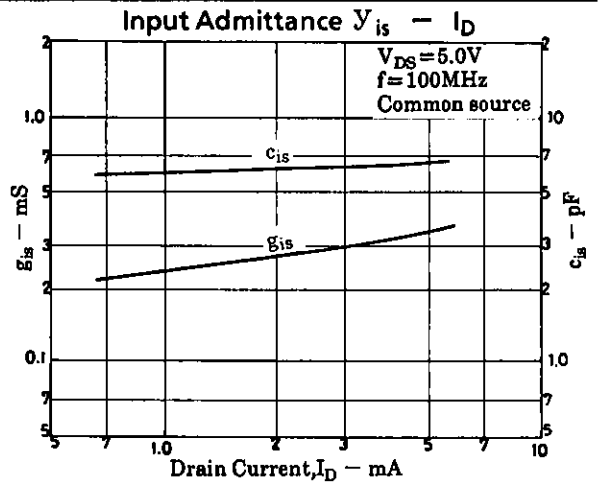
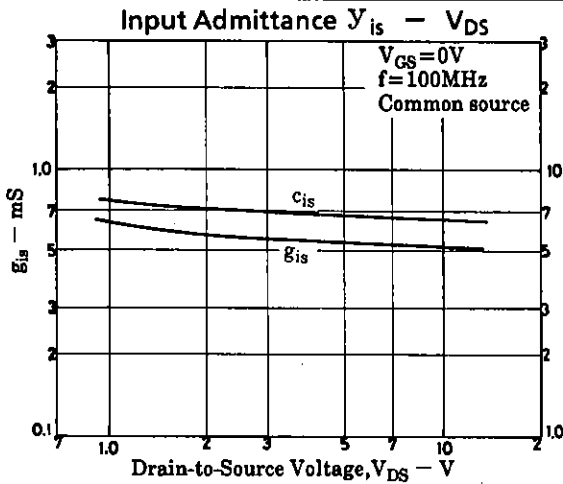
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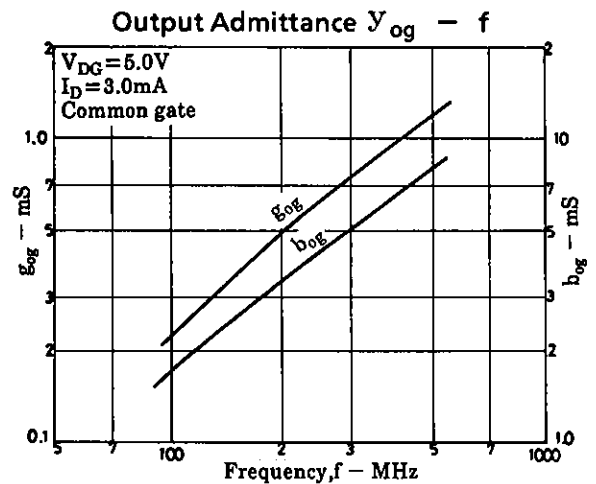
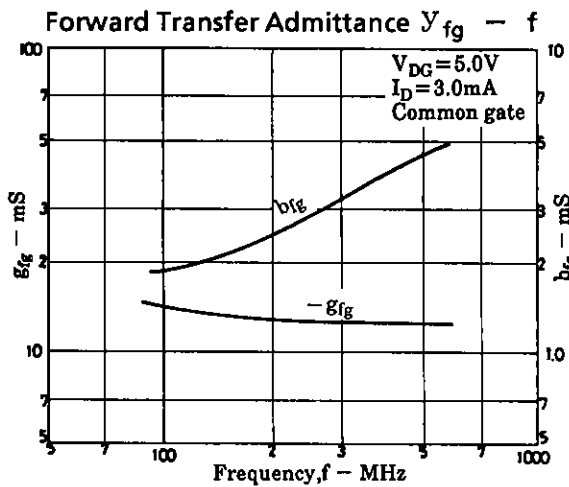
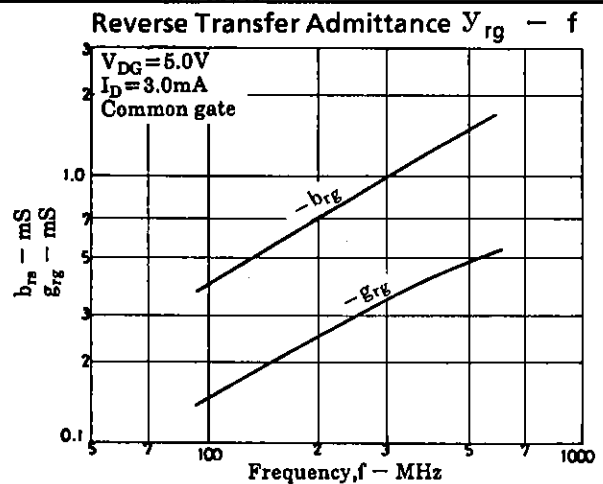
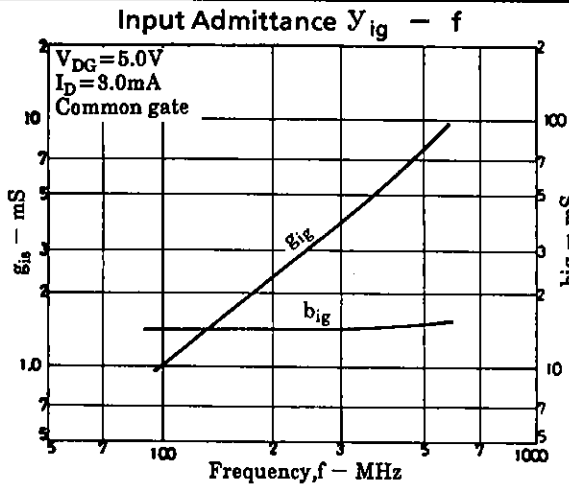
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