

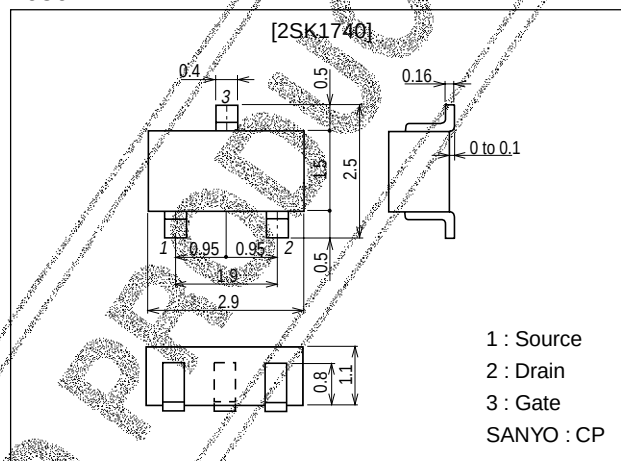
SANYO**2SK1740****HF amplifiers low frequency amplifiers
analog switches****Features**

- Adoption of FBET process.
- Large $|y_{fs}|$.
- Small Ciss.
- Small-sized package permitting 2SK1740-applied sets to be made small and slim.

Package Dimensions

unit:mm

2050A

**Specifications****Absolute Maximum Ratings at Ta = 25°C**

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V_{DS}		40	V
Gate-to-Drain Voltage	V_{GDS}		-40	V
Gate Current	I_G		10	mA
Drain Current	I_D		75	mA
Allowable Power Dissipation	P_D		250	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	$V_{(BR)GDS}$	$I_G = -10\mu A, V_{DS} = 0$	-40			V
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS} = -20V, V_{DS} = 0V$			-1.0	nA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 10V, I_D = 100\mu A$	-2.0	-3.0	-5.0	V
Zero-Gate Voltage Drain Current	I_{DSS}^*	$V_{DS} = 10V, V_{GS} = 0V$	40*		75*	mA
Forward Transfer Admittance	$ y_{fs} _1$	$V_{DS} = 10V, I_D = 10mA, f = 1kHz$	10	15		mS
	$ y_{fs} _2$	$V_{DS} = 10V, V_{GS} = 0V, f = 1kHz$	22	30		mS

*: Pulse Test Pulse Width $\leq 2ms$ *: The 2SK1740 is classified by I_{DSS} as follows (unit : mA) :

40	3	52	48	4	63	57	5	75
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Marking: H

 I_{DSS} rank: 3, 4, 5

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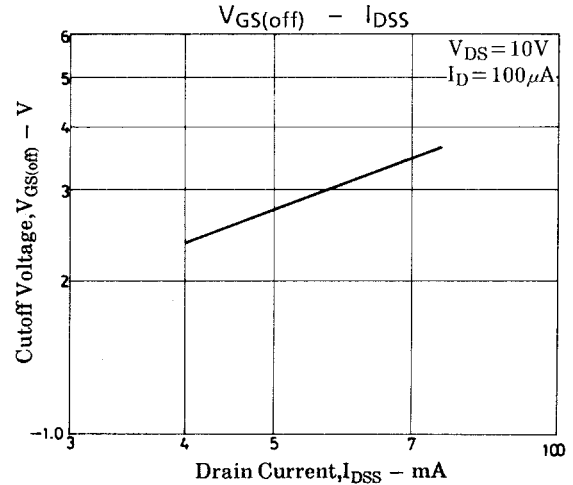
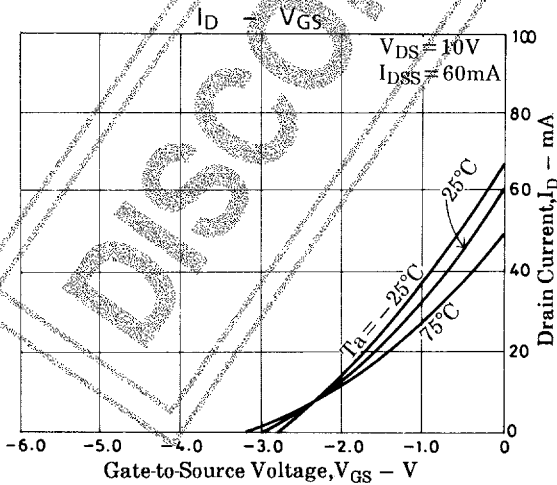
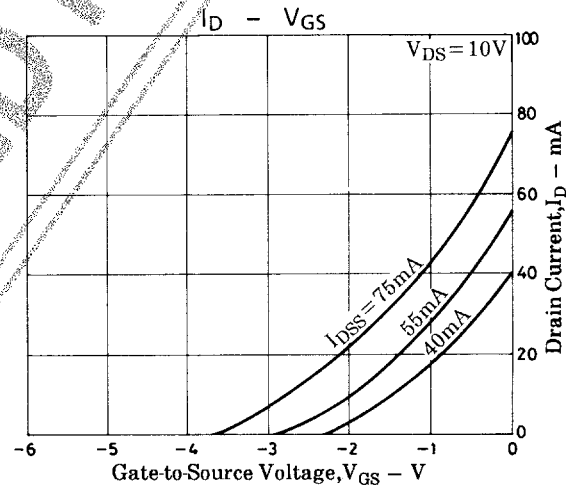
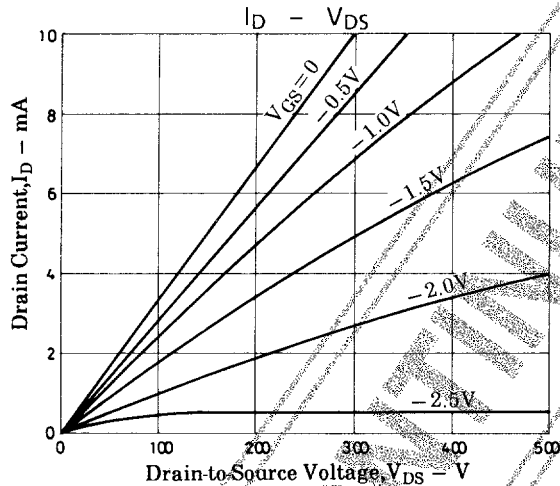
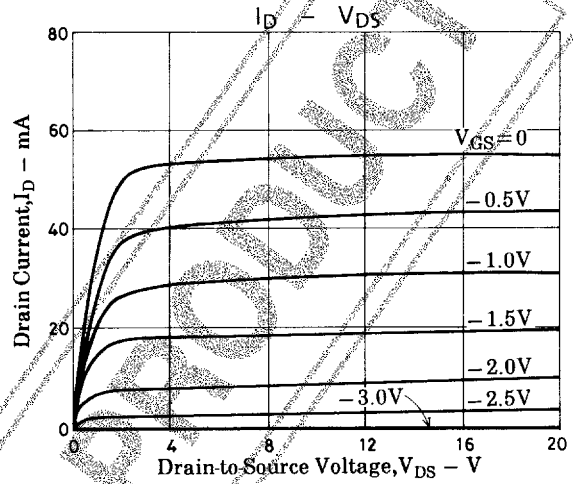
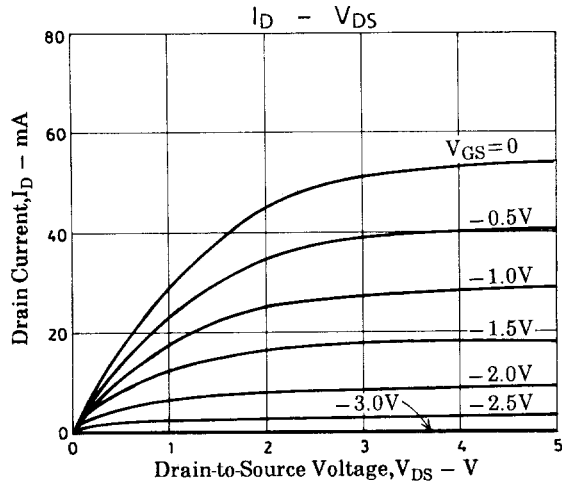
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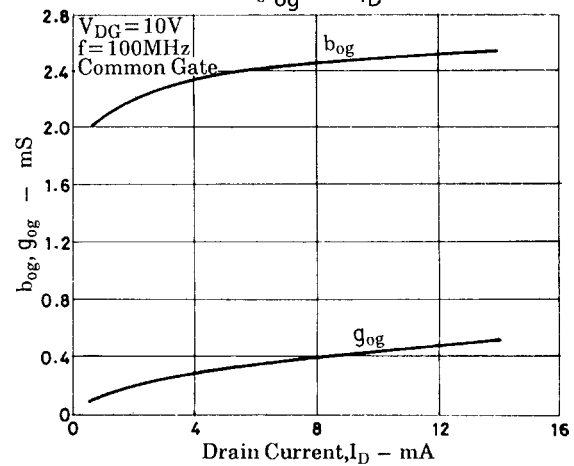
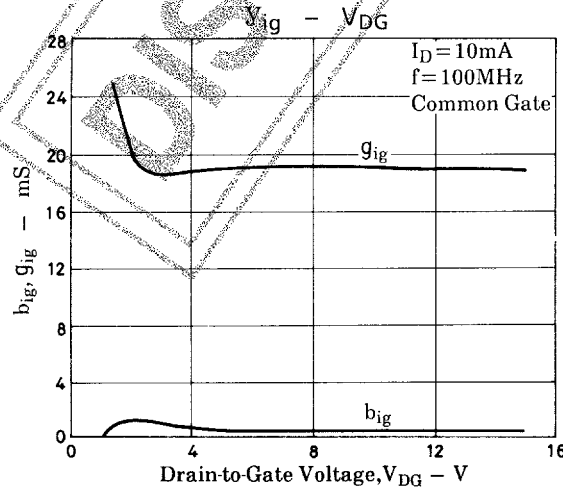
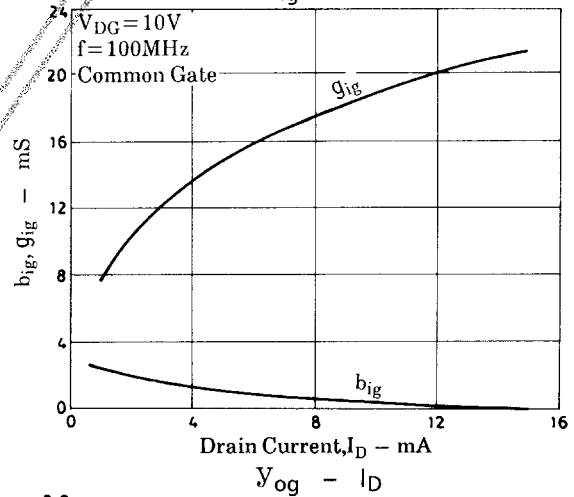
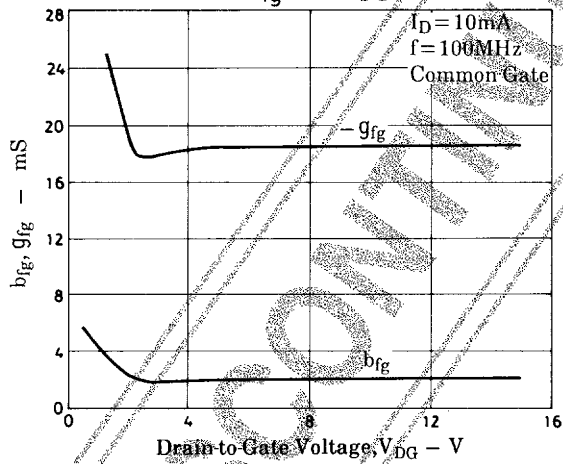
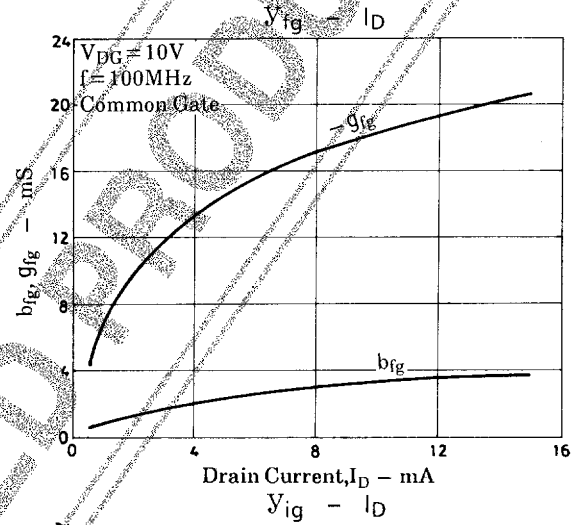
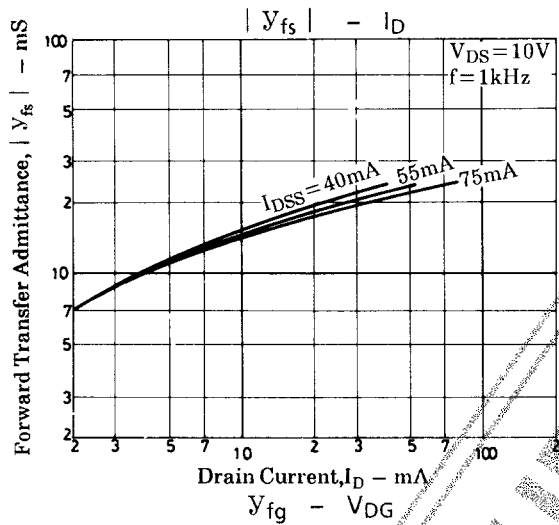
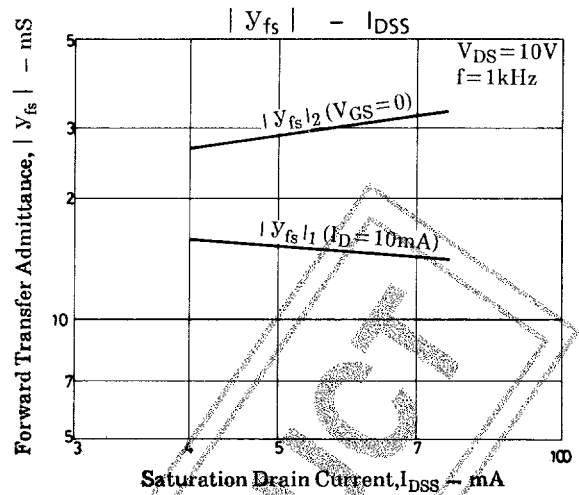
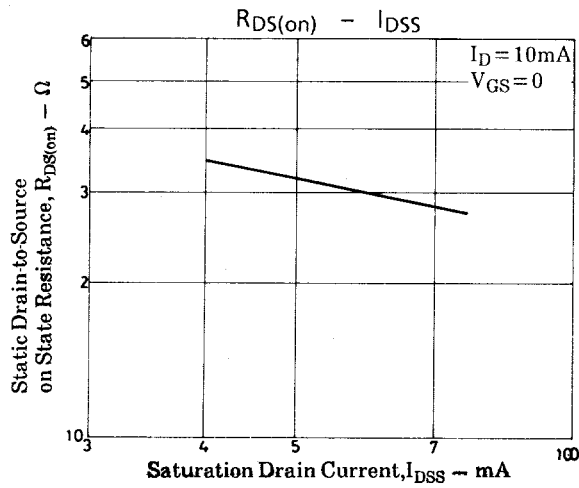
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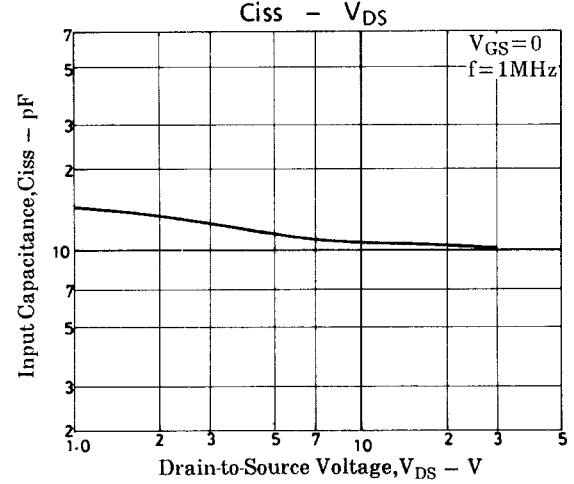
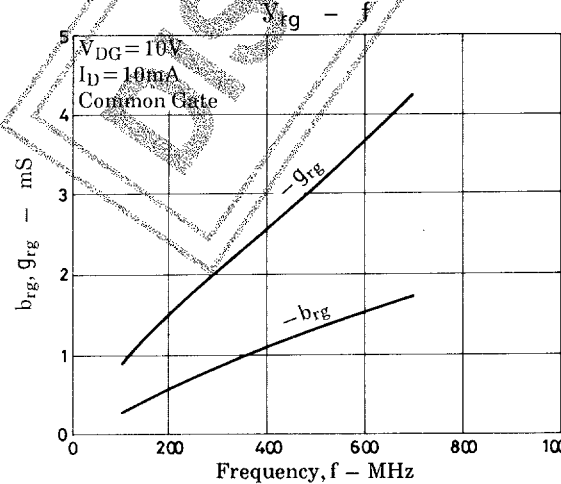
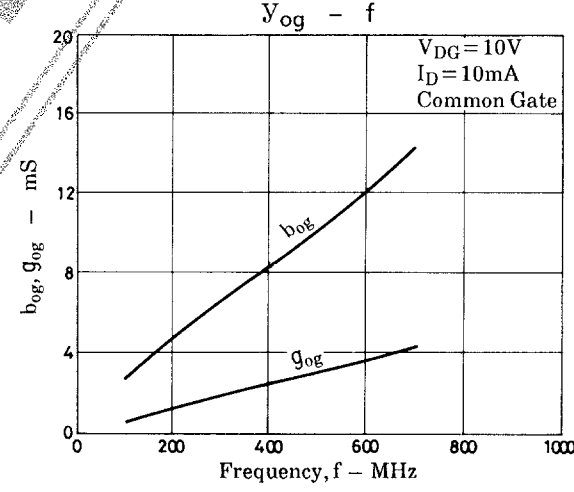
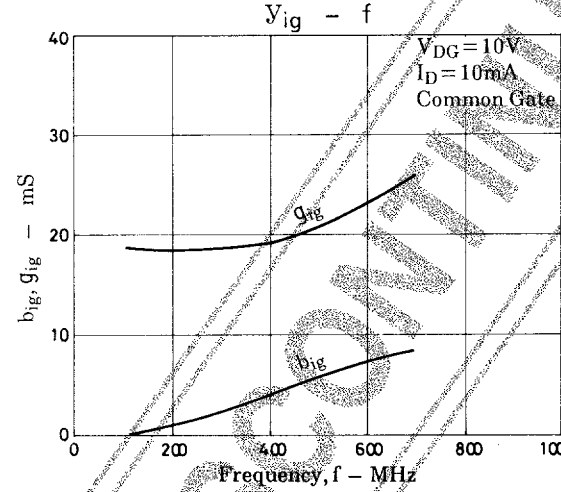
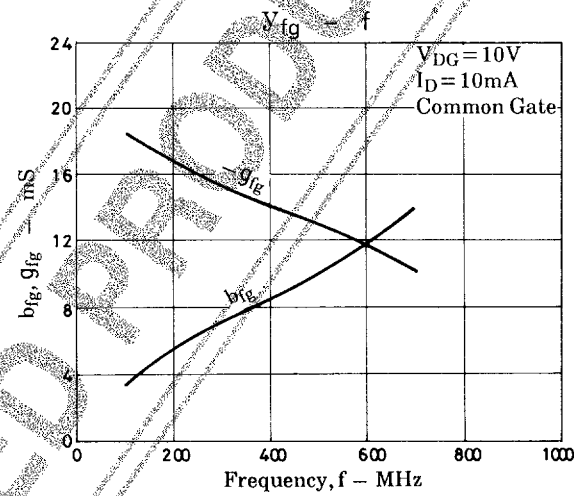
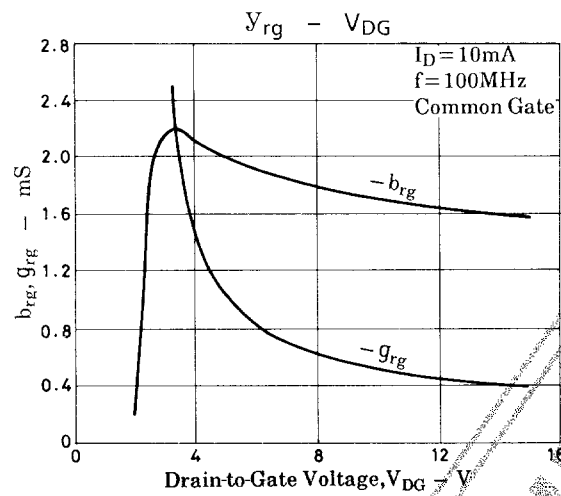
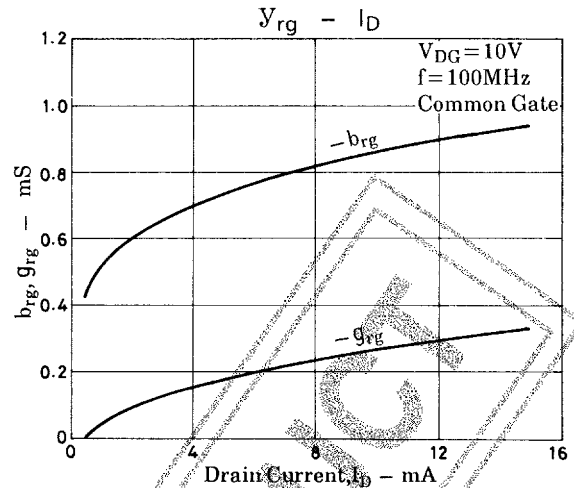
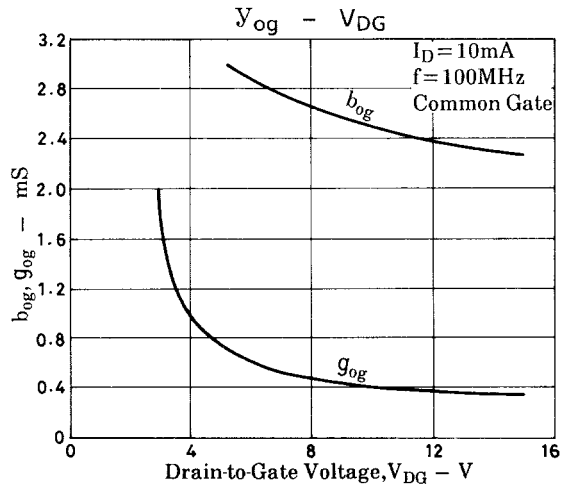
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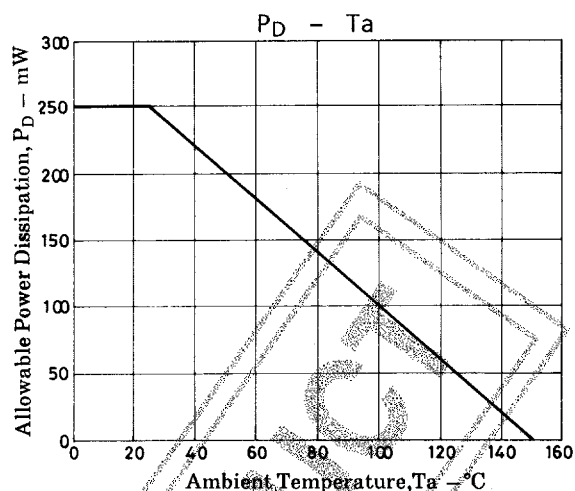
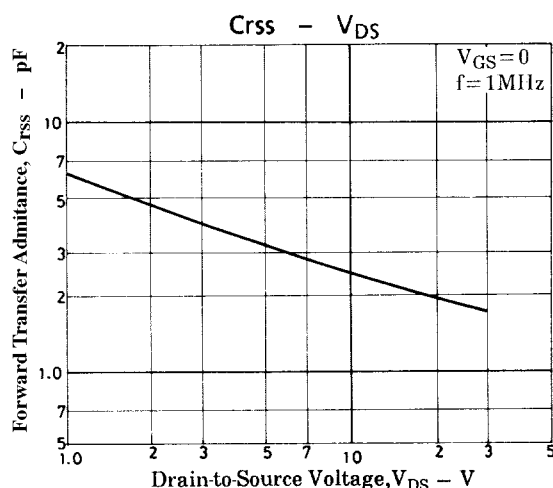
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Input Capacitance	C_{iss}	$V_{DS}=10V, V_{GS}=0V, f=1MHz$		11		pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS}=10V, V_{GS}=0V, f=1MHz$		2.5		pF
Noise Figure	NF	$V_{DS}=10V, R_g=1k\Omega, I_D=1mA, f=1kHz$		1.5		dB
Static Drain-to-Source on State Resistance	$R_{DS(on)}$	$I_D=10mA, V_{GS}=0$		30		Ω









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