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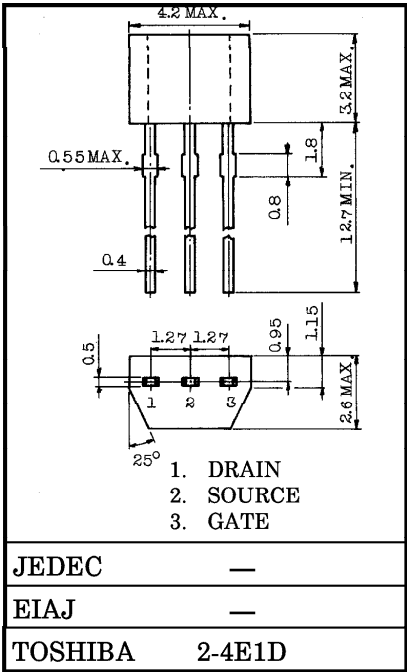
FM TUNER, VHF AND RF AMPLIFIER APPLICATIONS.

Unit in mm

- Low Reverse Transfer Capacitance : $C_{rss}=0.035\text{pF}$ (Typ.)
- Low Noise Figure : $NF=1.7\text{dB}$ (Typ.)
- High Power Gain : $G_{ps}=28\text{dB}$ (Typ.)
- Recommend Operation Voltage : $5\sim15\text{V}$

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Drain-Source Voltage	V_{DS}	20	V
Gate-Source Voltage	V_{GS}	± 5	V
Drain Current	I_D	30	mA
Drain Power Dissipation	P_D	200	mW
Chanel Temperature	T_{ch}	125	°C
Storage Temperature Range	T_{stg}	$-55\sim125$	°C

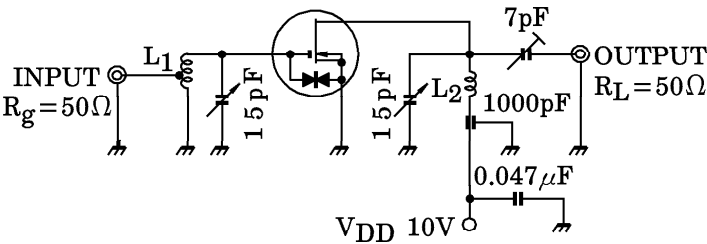


ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Weight : 0.13g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate Leakage Current	I_{GSS}	$V_{DS}=0, V_{GS}=\pm 5\text{V}$	—	—	± 50	nA
Drain-Source Voltage	V_{DSX}	$V_{GS}=-4\text{V}, I_D=100\mu\text{A}$	20	—	—	V
Drain Current	I_{DSS}	$V_{DS}=10\text{V}, V_{GS}=0$ (Note)	1.5	—	14	mA
Gate-Source Cut-off Voltage	$V_{GS(OFF)}$	$V_{DS}=10\text{V}, I_D=100\mu\text{A}$	—	—	-2.5	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS}=10\text{V}, V_{GS}=0, f=1\text{kHz}$	—	10	—	mS
Input Capacitance	C_{iss}	$V_{DS}=10\text{V}, V_{GS}=0, f=1\text{MHz}$	—	3.0	—	pF
Reverse Transfer Capacitance	C_{rss}		—	0.035	0.050	pF
Power Gain	G_{ps}	$V_{DS}=10\text{V}, V_{GS}=0, f=100\text{MHz}$ (Fig.1)	—	28	—	dB
Noise Figure	NF		—	1.7	3.0	dB

Note : I_{DSS} Classification O : 1.5~3.5, Y : 3.0~7.0, GR : 6.0~14.0

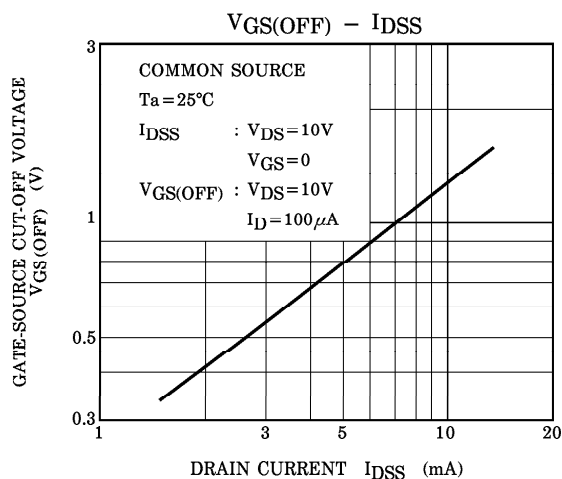
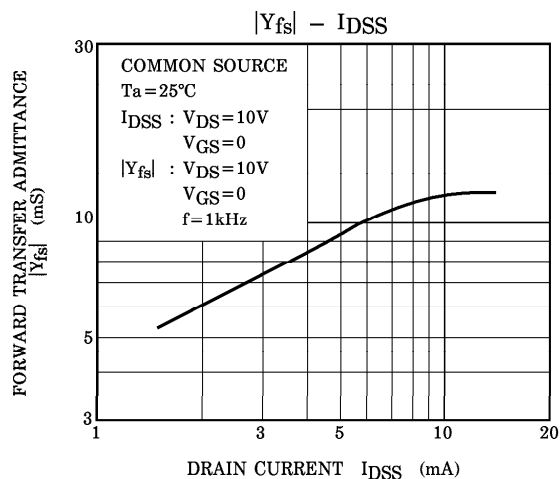
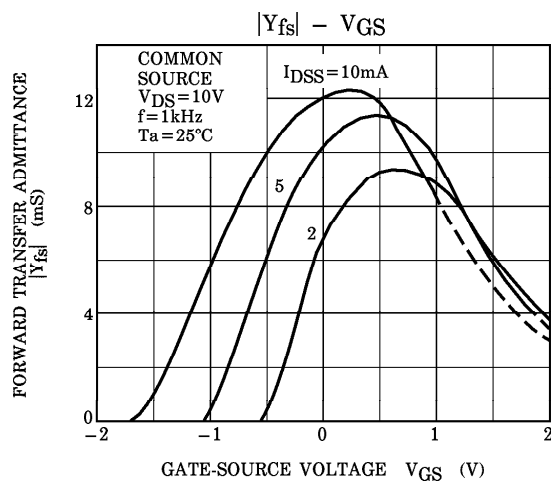
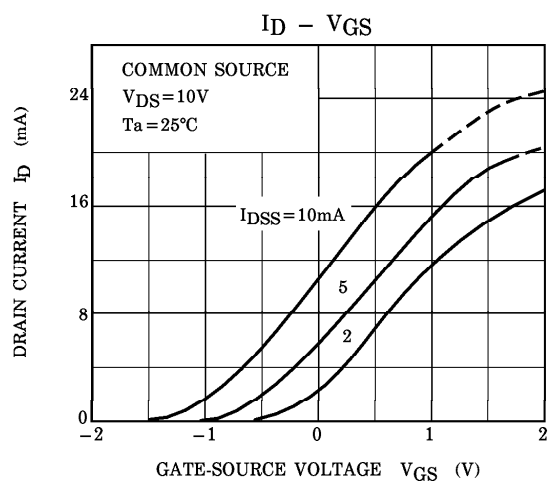
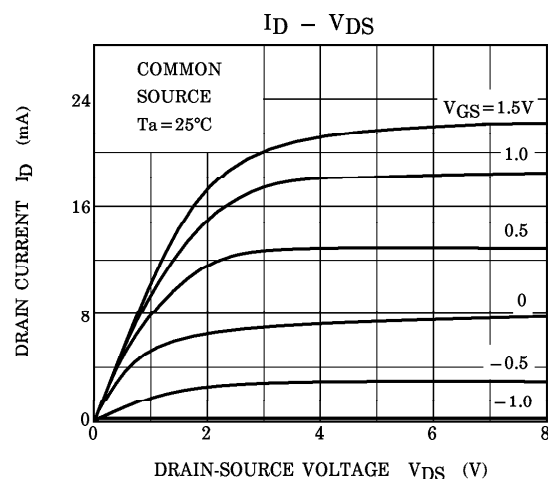
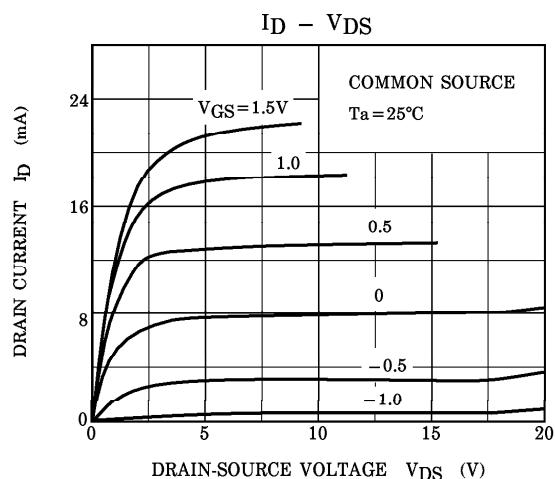


- L_1 : 1.0mm ϕ SILVER PLATED COPPER WIRE 4.0T, 8mm ϕ ID TAPAT 1.0T FROM COLD END
- L_2 : 1.0mm ϕ SILVER PLATED COPPER WIRE 3.0T, 8mm ϕ ID, 10mm LENGTH

Fig.1 G_{ps} , NF TEST CIRCUIT

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