

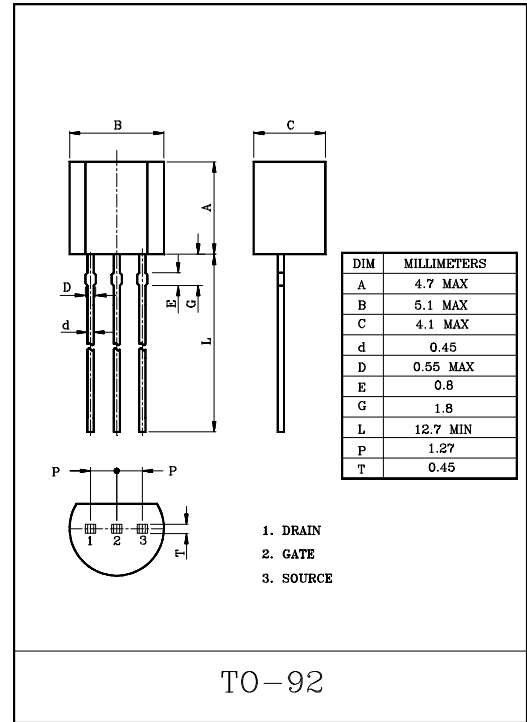
LOW NOISE AUDIO AMPLIFIER APPLICATION.

FEATURES

- High $|y_{fs}|$: 15mS(Typ.)
: ($V_{DS}=10V$, $V_{GS}=0$)
- High Breakdown Voltage : $V_{GDS}=-50V$.
- Low Noise : NF=1.0dB(Typ.)
($V_{DS}=10V$, $I_D=0.5mA$, $f=1kHz$, $R_g=1k\Omega$)
($f=120MHz$)
- High Input Impedance : $I_{GSS}=-1nA(Max.)$ ($V_{GS}=-30V$).

MAXIMUM RATINGS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Gate-Drain Voltage	V_{GDS}	-50	V
Gate Current	I_G	10	mA
Drain Power Dissipation	P_D	300	mW
Junction Temperature	T_j	125	$^\circ C$
Storage Temperature Range	T_{stg}	-55~125	$^\circ C$

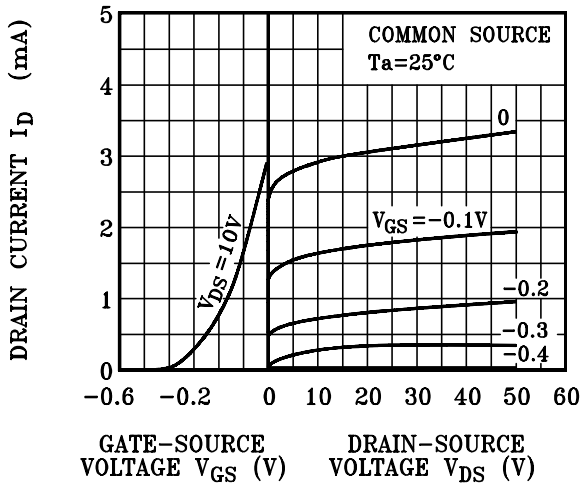


ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

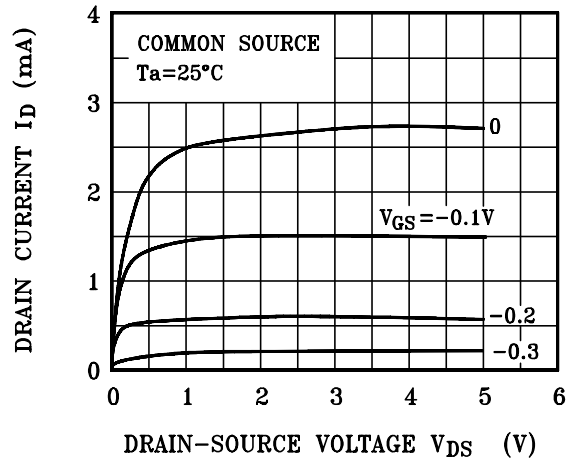
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate Leakage Current	I_{GSS}	$V_{GS}=-30V$, $V_{DS}=0$	-	-	-1.0	nA
Gate-Drain Breakdown Voltage	$V_{(BR)GDS}$	$V_{DS}=0$, $I_G=-100\mu A$	-50	-	-	V
Drain Current	I_{DSS} (Note)	$V_{DS}=10V$, $V_{GS}=0$	1.2	-	14	mA
Gate-Source Cut-off Voltage	$V_{GS(OFF)}$	$V_{DS}=10V$, $I_D=0.1\mu A$	-0.2	-	-1.5	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS}=10V$, $V_{GS}=0$, $f=1kHz$	4.0	15	-	mS
Input Capacitance	C_{iss}	$V_{DS}=10V$, $V_{GS}=0$, $f=1MHz$	-	13	-	pF
Reverse Transfer Capacitance	C_{rss}	$V_{DG}=10V$, $I_D=0$, $f=1MHz$	-	3.0	-	pF
Noise Figure	NF(1)	$V_{DS}=10V$, $R_g=1k\Omega$ $I_D=0.5mA$, $f=10Hz$	-	5.0	10	dB
	NF(2)	$V_{DS}=10V$, $R_g=1k\Omega$ $I_D=0.5mA$, $f=1kHz$	-	1.0	2.0	

Note : I_{DSS} Classification Y:1.2~3.0, GR:2.6~6.5, BL:6.0~14.0

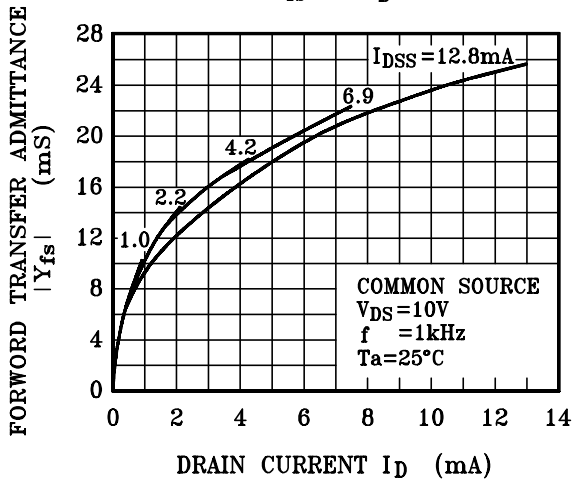
STATIC CHARACTERISTICS



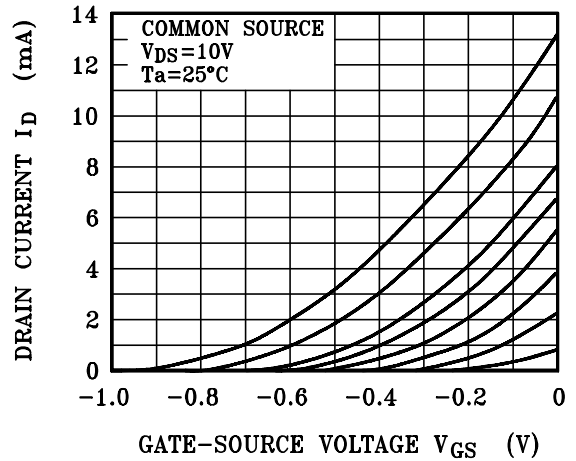
$I_D - V_{DS}$ (LOW VOLTAGE REGION)



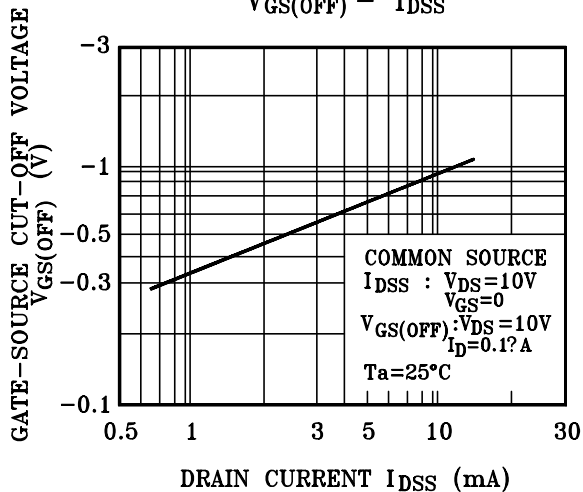
$|Y_{fs}| - I_D$



$I_D - V_{GS}$



$V_{GS(OFF)} - I_{DSS}$



$|Y_{fs}| - I_{DSS}$

