

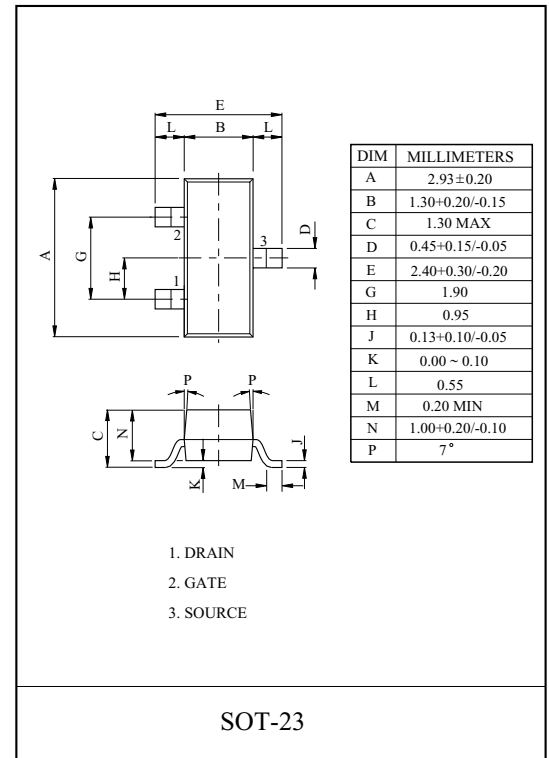
FOR FM AUDIO TUNER

FEATURES

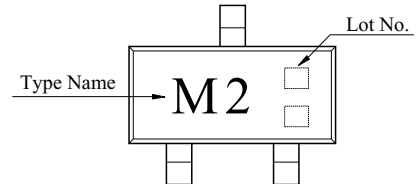
- High Forward Transfer Admittance
- Low Noise Gain Controlled Amplifier

Maximum Ratings (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Drain Source Voltage	V_{DS}	20	V
Drain Current	I_D	30	mA
Drain Power Dissipation ($T_S \leq 76^\circ\text{C}$)	P_D	200	mW
Channel Temperature	T_{CH}	150	°C
Storage Temperature range	T_{STG}	-55~150	°C



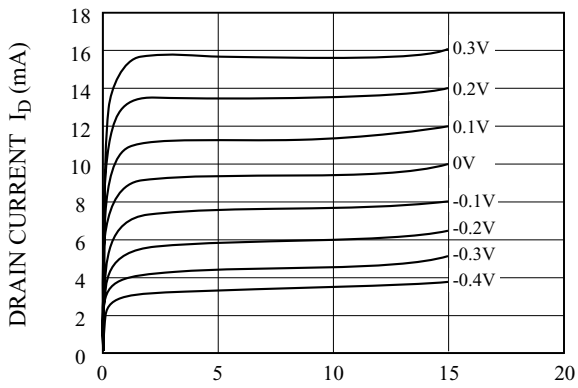
Marking



ELECTRICAL CHARACTERISTICS (Ta=25 °C)

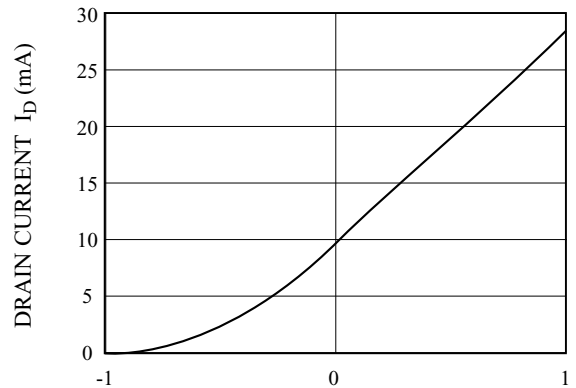
CHARACTERISTIC	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Drain Source Breakdown Voltage	$V_{(BR)DSX}$	$I_D=10\mu\text{A}, V_{GS}=-4\text{V}$	20	-	-	V
Gate-Source Breakdown Voltage	$V_{(BR)GSS}$	$I_{GS}=\pm 10\text{mA}, V_{DS}=0$	±6.5	-	±12	V
Gate Leakage Current	I_{GSS}	$V_{GS}=\pm 5\text{A}, V_{DS}=0$	-	-	±50	nA
Drain Current	I_{DSS}	$V_{DS}=10\text{V}, V_{GS}=0$	5	10	16	mA
Gate Source Pinch Voltage	$V_{GS(OFF)}$	$V_{DS}=10\text{V}, I_D=20\mu\text{A}$	-	-0.8	-1.5	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS}=10\text{V}, I_D=10\text{mA}$	14	20	-	mS
Input Capacitance	C_{iss}	$V_{DS}=10\text{V}, I_D=10\text{mA}, f=10\text{MHz}$	-	2.5	-	pF
Output Capacitance	C_{oss}		-	0.9	-	
Power Gain	G_p	$V_{DS}=10\text{V}, I_D=10\text{mA}, f=45\text{MHz}$	-	27	-	dB
Noise Figure	NF		-	2.1	-	

$I_D - V_{DS}$



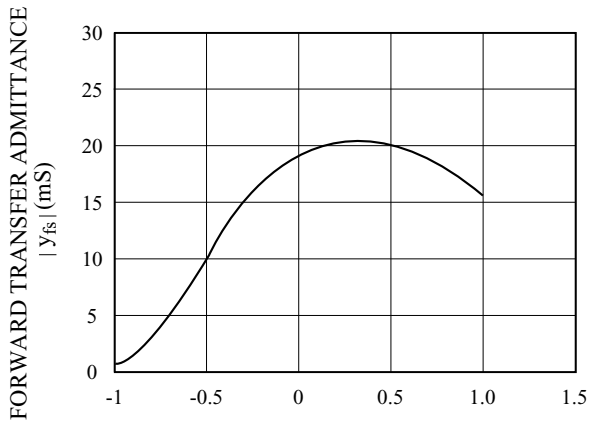
DRAIN-SOURCE VOLTAGE V_{DS} (V)

$I_D - V_{GS}$



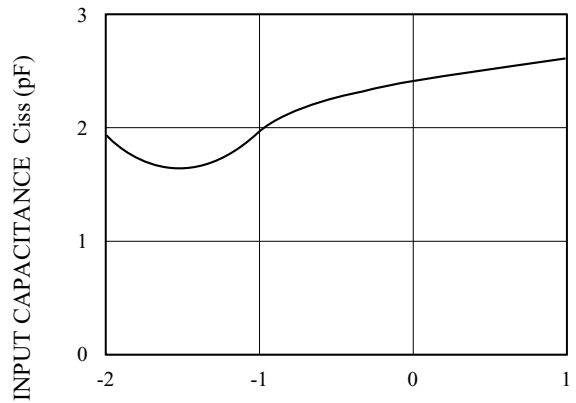
GATE-SOURCE VOLTAGE V_{GS} (V)

$|y_{fs}| - V_{GS}$



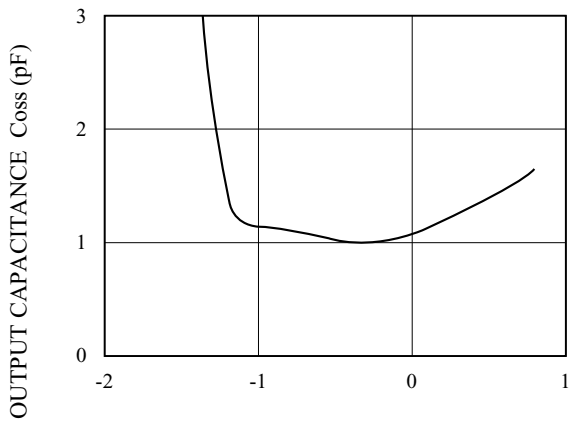
GATE-SOURCE VOLTAGE V_{GS} (V)

$C_{iss} - V_{GS}$



GATE-SOURCE VOLTAGE V_{GS} (V)

$C_{oss} - V_{DS}$



DRAIN-SOURCE VOLTAGE V_{DS} (V)