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TOSHIBA Field Effect Transistor Silicon N Channel Junction Type

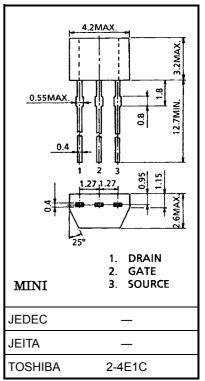
2SK710

High Frequency Amplifier Applications AM High Frequency Amplifier Applications Audio Frequency Amplifier Applications

- High $|Y_{fs}|$: $|Y_{fs}| = 25 \text{ mS (typ.)}$
- Low C_{iss} : $C_{iss} = 7.5 \text{ pF} (typ.)$
- Low noise

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Gate-drain voltage	V _{GDS}	-20	V
Gate current	I _G	10	mA
Drain power dissipation	PD	200	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C



Weight: 0.13 g (typ.)

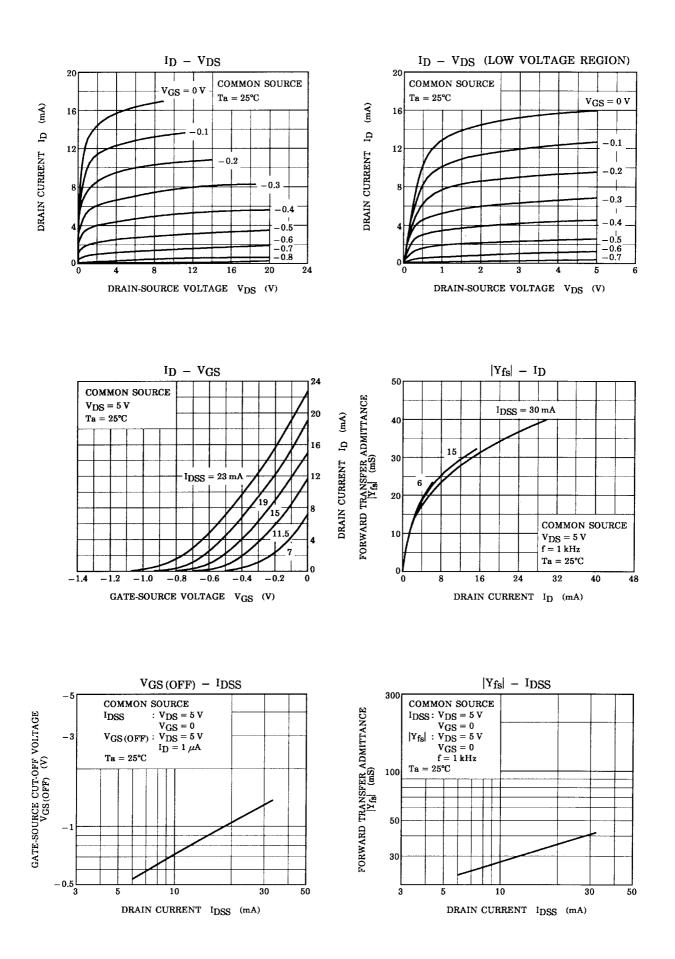
Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Gate leakage current	I _{GSS}	$V_{GS} = -15 V, V_{DS} = 0$			-1.0	nA
Gate-drain breakdown voltage	V (BR) GDS	$V_{DS} = 0, I_G = -100 \ \mu A$	-20	_	_	V
Drain current	I _{DSS} (Note)	$V_{DS} = 5 V, V_{GS} = 0$	6	_	32	mA
Gate-source cut-off voltage	V _{GS (OFF)}	$V_{DS} = 5 \text{ V}, \text{ I}_{D} = 1 \mu\text{A}$		_	-2.5	V
Forward transfer admittance	Y _{fs}	$V_{DS} = 5 \text{ V}, V_{GS} = 0, f = 1 \text{ kHz}$	15	25	_	mS
Input capacitance	C _{iss}	$V_{DS} = 5 \text{ V}, V_{GS} = 0, f = 1 \text{MHz}$		7.5	10	pF
Reverse transfer capacitance	C _{rss}	$V_{DG} = 5 \text{ V}, \text{ I}_{D} = 0, \text{ f} = 1 \text{ MHz}$		2	3	pF
Noise figure	NF	$V_{DS} = 5 \text{ V}, \text{ I}_D = 1 \text{ mA}$ $R_g = 1 \text{ k}\Omega, \text{ f} = 1 \text{ kHz}$	_	0.5	3	dB

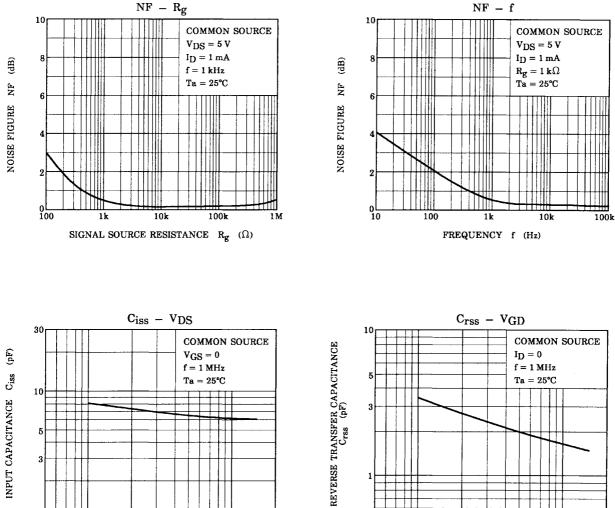
Note: I_{DSS} classification GR: 6~12 mA, BL: 10~20 mA, V: 16~32 mA

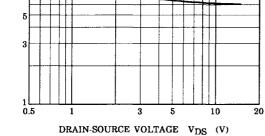
Unit: mm

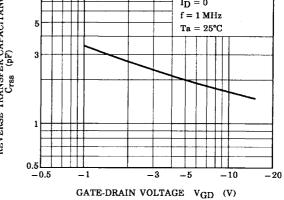
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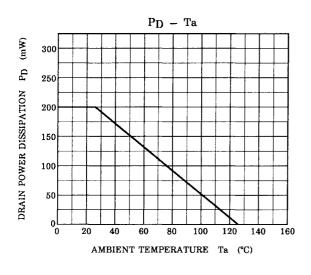


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