TOSHIBA Field Effect Transistor Silicon N Channel Junction Type

2SK711

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} : $C_{iss} = 7.5 pF (typ.)$

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	P _D	150	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C

1. SOURCE 2. DRAIN 3. GATE

JEDEC TO-236MOD

JEITA SC-59

TOSHIBA 2-3F1B

Weight: 0.012 g (typ.)

Electrical Characteristics (Ta = 25°C)

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

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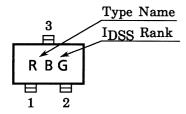
Note: I_{DSS} classification

GR: 6~12 mA, BL: 10~20 mA, V: 16~32 mA

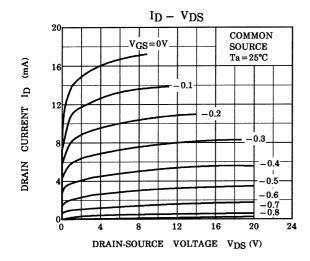
G) (L) (V)

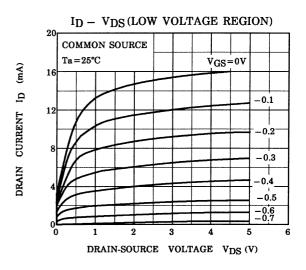
()..... I_{DSS} rank marking

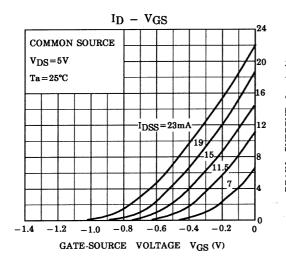
Marking

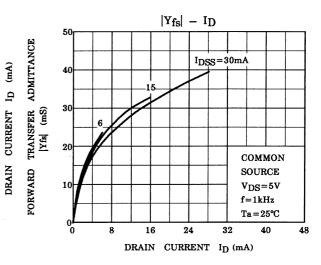


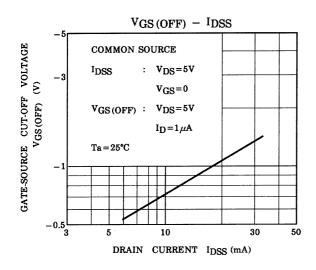
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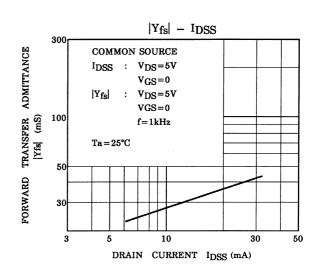




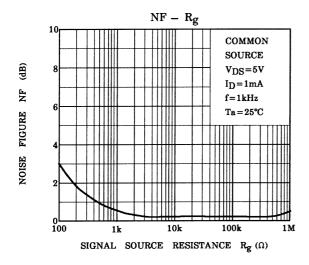


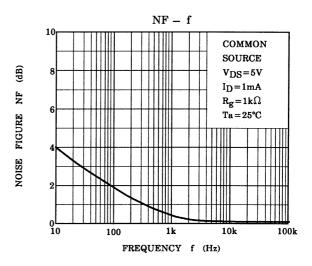


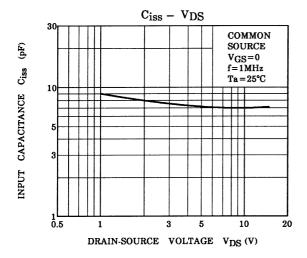


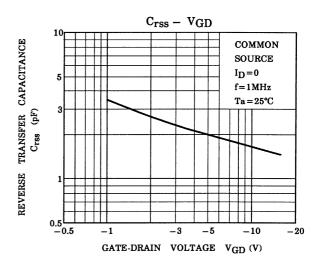


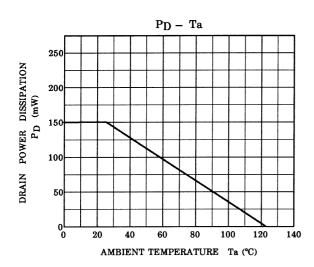
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