

3SK263

FM Tuner, VHF Tuner, High-Frequency Amplifier Applications

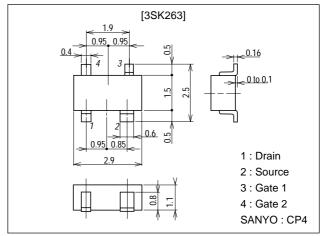
Features

- · Enhancement type.
- · Small noise figure.
- · Small cross modulation.

Package Dimensions

unit:mm

2096A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DS}		15	V
Gate1-to-Source Voltage	V _{G1S}		±8	V
Gate2-to-Source Voltage	V _{G2S}		±8	V
Drain Current	I _D		30	mA
Allowable Power Dissipation	P _D		200	mW
Channel Temperature	Tch		125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Oill
Drain-to-Source Voltage	V _{DS}	V _{G1S} =0V, V _{G2S} =0V, I _D =100μA	15			V
Gate1-to-Source Cutoff Voltage	V _{G1S(off)}	$V_{DS}=6V, V_{G2S}=4V, I_{D}=100\mu A$	0	0.7	1.3	V
Gate2-to-Source Cutoff Voltage	V _{G2S(off)}	V _{DS} =6V, V _{G1S} =3V, I _D =100μA	0.1	0.9	1.6	V
Gate1-to-Source Leakage Current	I _{G1SS}	V _{G1S} =±6V, V _{G2S} =V _{DS} =0V			±50	nA
Gate2-to-Source Leakage Current	I _{G2SS}	V _{G2S} =±6V, V _{G1S} =V _{DS} =0V			±50	nA
Zero-Gate Voltage Drain Current	I _{DSX}	V _{DS} =6V, V _{G1S} =1.5V, V _{G2S} =4V	2.5*		24*	mA
Forward Transfer Admittance	yfs	V_{DS} =6V, I_D =10mA, V_{G2S} =4V, f=1kHz		14		mS

*: The 3SK263 is classified by I_{DSX} as follows: (unit: mA)

2.5 4 6.0 5.0 5 12.0 10.0 6 24.0

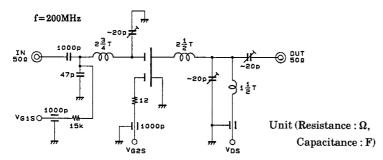
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- Marking : RJ I_{DSX} rank : 4, 5, 6
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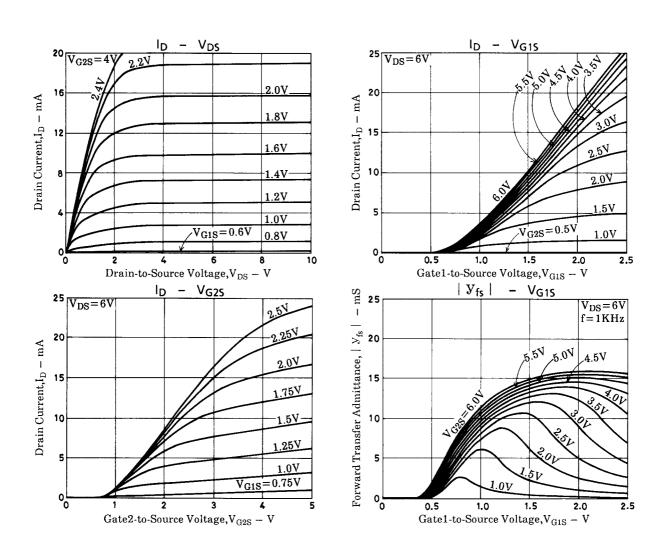
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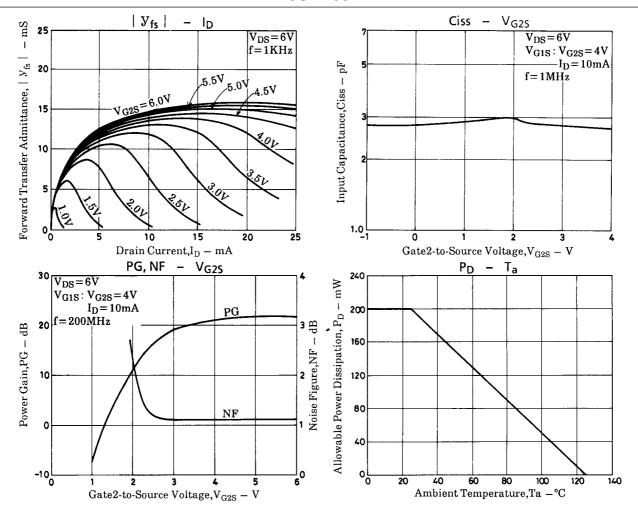
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
Input Capacitance	Ciss	V _{DS} =6V, f=1MHz, V _{G1S} =0V, V _{G2S} =4V		2.7		pF
Reverse Transfer Capacitance	Crss	V _{DS} =6V, f=1MHz, V _{G1S} =0V, V _{G2S} =4V		0.015	0.03	pF
Power Gain	PG	V _{DS} =6V, I _D =10mA, V _{G2S} =4V, f=200MHz	18	21		dB
Noise Figure	NF	V_{DS} =6V, I_D =10mA, V_{G2S} =4V, f=200MHz		1.1	2.2	dB

PG, NF Specified Test Circuit



 $\begin{array}{l} L: 1mm \emptyset \ enamel \ wire \ 10mm \emptyset \\ Unit \ (Resistance: \Omega, Capacitance: F) \end{array}$





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