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[SANYO Semiconductor \(U.S.A\) Corporation](#)
[2SK3737-5-TL-E](#)

For any questions, you can email us directly:
sales@integrated-circuit.com

Ordering number : ENN8390



SANYO Semiconductors DATA SHEET

2SK3737 — N-Channel Silicon MOSFET FM Tuner, VHF Amplifier Applications

Features

- Low noise.
- High power gain.
- Small reverse transfer capacitance.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DS}		15	V
Gate-to-Source Voltage	V _{GS}		±5	V
Drain Current	I _D		30	mA
Allowable Power Dissipation	P _D		150	mW
Channel Temperature	T _{ch}		150	°C
Storage Temperature	T _{stg}		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Drain-to-Source Voltage	V _{D SX}	V _{GS} =-4V, I _D =100μA	15			V
Gate-to-Source Leakage Current	I _{G SS}	V _{DS} =0V, V _{GS} =±5V			±10	nA
Zero-Gate Voltage Drain Current	I _{D SS}	V _{DS} =10V, V _{GS} =0V	6.0*		12*	mA
Cutoff Voltage	V _{GS(off)}	V _{DS} =10V, I _D =100μA			-2.2	V
Forward Transfer Admittance	y _{fs}	V _{DS} =10V, V _{GS} =0V, f=1kHz	11	16		mS
Input Capacitance	C _{iss}	V _{DS} =10V, V _{GS} =0V, f=1MHz		2.4		pF
Reverse Transfer Capacitance	C _{rss}	V _{DS} =10V, V _{GS} =0V, f=1MHz		0.035		pF
Power Gain	PG	V _{DS} =10V, V _{GS} =0V, f=100MHz See specified Test Circuit.		35		dB
Noise Figure	NF	V _{DS} =10V, V _{GS} =0V, f=100MHz See specified Test Circuit.		2.0		dB

Marking : KA

* : The 2SK3737 is classified by I_{DSS} as follows (unit : mA) :

Rank	5	6
I _{DSS}	6 to 10	8 to 12

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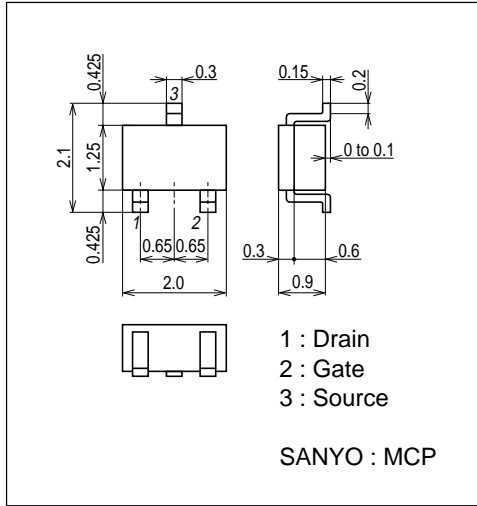
■ SANYO assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all SANYO products described or contained herein.

2SK3737

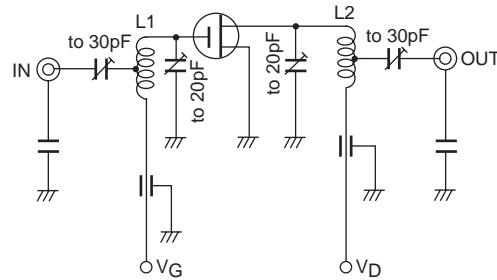
Package Dimensions

unit : mm

7023-011

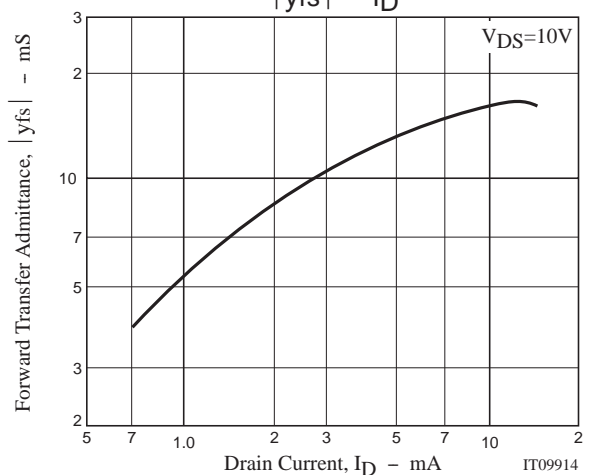
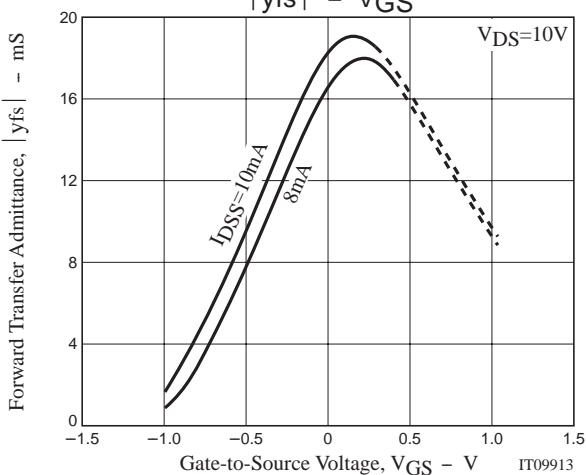
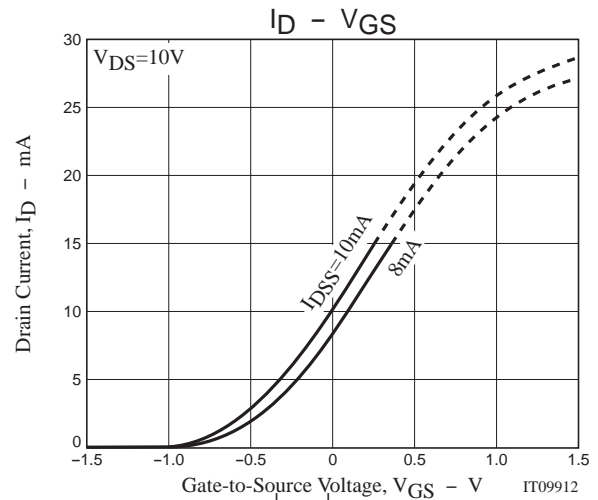
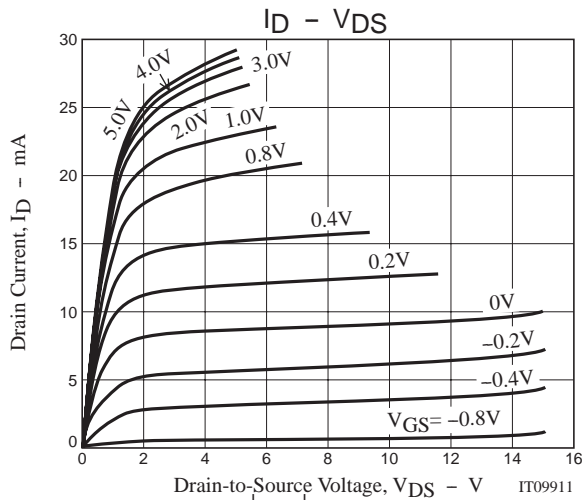


PG, NF Specified Test Circuit

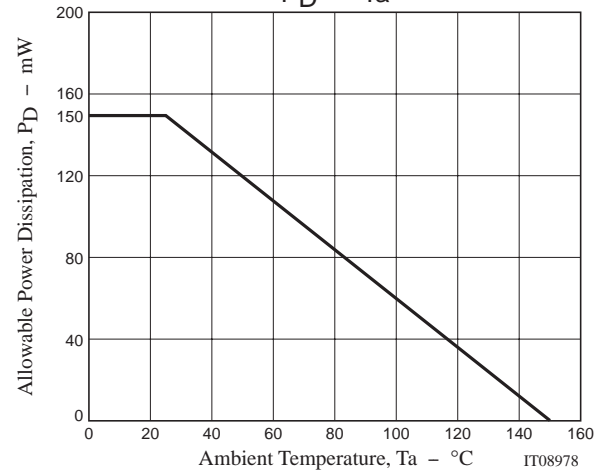
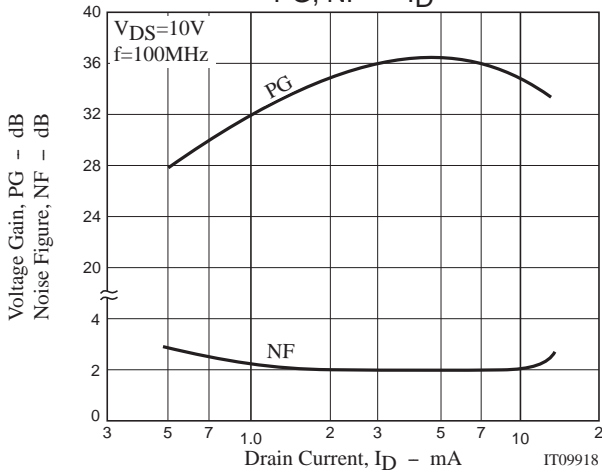
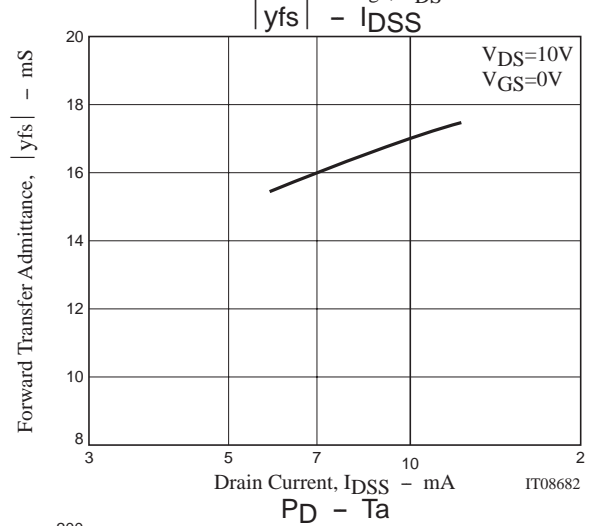
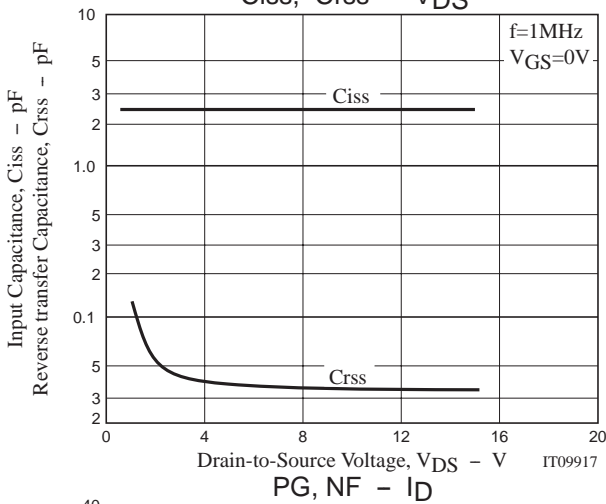
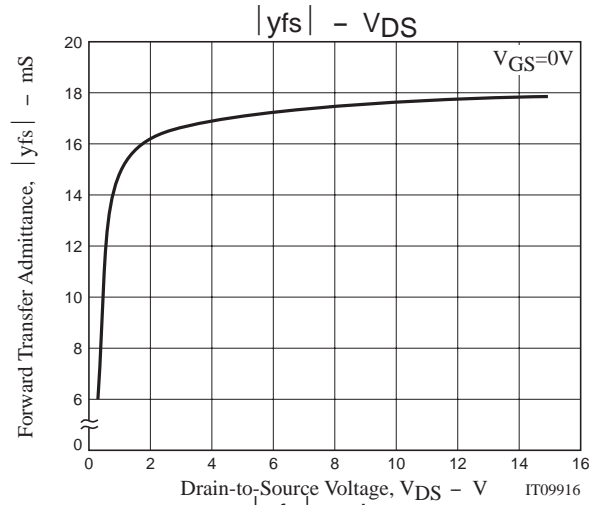
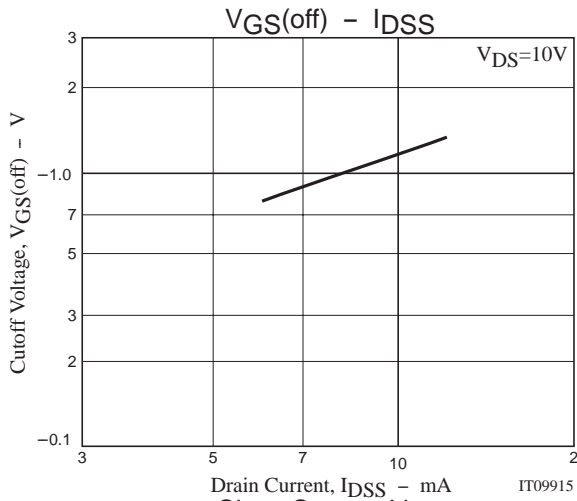


L1 : 1.0mmφ copper wire 10mmφ 6T, tap : 2.5T from H side

L2 : 1.0mmφ copper wire 10mmφ 7T, tap : 4T from H side



2SK3737



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