勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

N-Channel Junction Silicon FET



2SK937

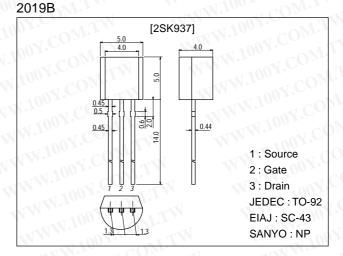
High-Frequency General-Purpose Amplifier Applications

Features

- · Adoption of FBET process.
- · Large $|y_{fs}|$.
- · Small Ciss.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSX}	.I. COM.	40	V
Gate-to-Drain Voltage	V _{GDS}	TW WWW.	-40	V
Gate Current	IG	ANN STATE OF COMME	10	mA
Drain Current	ID	William COM	100	mA
Allowable Power Dissipation	P_{D}	TW WWW.	300	mW
Junction Temperature	Tj	OM.	150	°C
Storage Temperature	Tstg	W. 100	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	100	Ratings		
	Symbol		min	typ	max	Unit
Gate-to-Drain Breakdown Voltage	V(BR)GDS	I _G =-10μA, V _{DS} =0	-40	OM_{i} ,	- 1	V
Gate-to-Source Leakage Current	IGSS	V _{GS} =-20V, V _{DS} =0	11007.	100	-1.0	nA
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =10V, V _{GS} =0	40*	COM	75*	mA
Cutoff Voltage	V _{GS(off)}	V _{DS} =10V, I _D =100μA	-2.0	-3.0	-5.0	V
Forward Transfer Admittance	yfs 1	V _{DS} =10V, I _D =10mA, f=1kHz	10	15	TT	mS
	yfs 2	V _{DS} =10V, V _{GS} =0, f=1kHz	22	30	Nr.	mS

^{*}: The 2SK937 is classified by I_{DSS} as follows (unit : mA):

40 Y3 52 48 Y4 63 57 Y5 75

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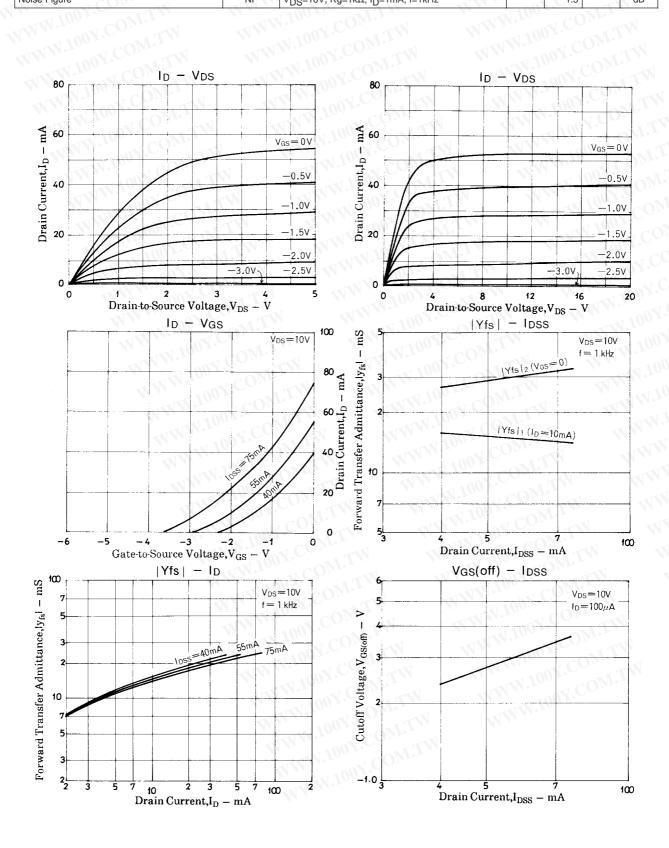
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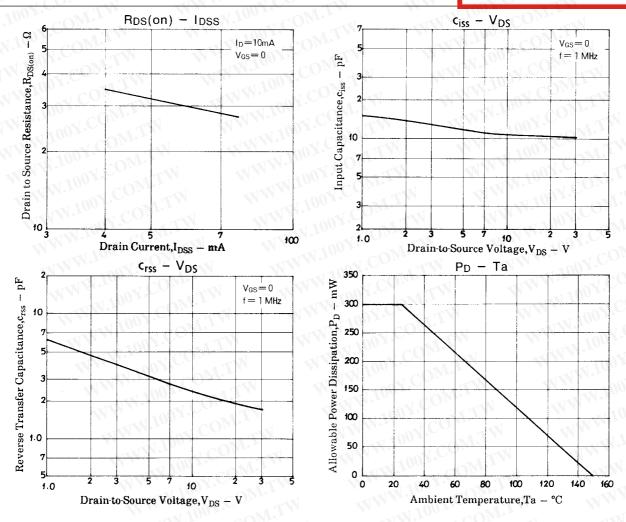
Parameter	Symbol	Conditions	Ratings	Unit
Input Capacitance	Ciss	V _{DS} =10V, V _{GS} =0, f=1MHz	0011	pF
Reverse Transfer Capacitance	Crss	V _{DS} =10V, V _{GS} =0, f=1MHz	2.5	pF
Noise Figure	NF	V_{DS} =10V, Rg=1kΩ, I_{D} =1mA, f=1kHz	1.5	dB

2SK937



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2SK937



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