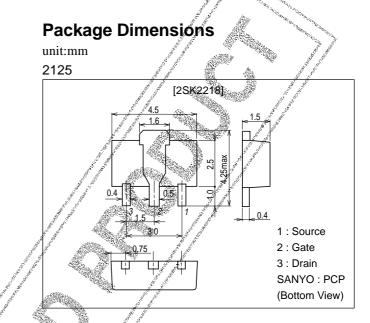


## Features

- · Adoption of FBET process.
- · Amateur radio equipment.
- · UHF amplifiers, MIX, OSC, analog switches.
- $\cdot$  Large  $| y_{fs} |$ .
- · Small Ciss.



## **Specifications**

## Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Drain-to-Source Voltage	V <sub>DSX</sub>	15	V
Gate-to-Drain Voltage	VGDS	-15	V
Gate Current	lg l	10	mA
Drain Current	I <sub>D</sub>	100	mA
Allowable Power Dissipation	Provide Alexandre	400	mW
	PD Mounted on ceramic board (250mm <sup>2</sup> ×0.8mm)	800	mW
Junction Temperature		150	°C
Storage Temperature	A tstg	-55 to +150	°C

## Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
Falameter	Synhou	Conditions		typ	max	Unit
Gate-to-Drain Breakdown Voltage	V(BR)GDS	Ί <sub>G</sub> =–10μΑ, V <sub>DS</sub> =0	-15			V
Gate-to-Source Leakage Current	IGSS	V <sub>GS</sub> =–10V, V <sub>DS</sub> =0			-1.0	nA
Zero-Gate Voltage Drain Current	IDSS**	V <sub>DS</sub> =5V, V <sub>GS</sub> =0	40*		75*	mA
Cutoff Voltage	VGS(off)	V <sub>DS</sub> =5V, I <sub>D</sub> =100µA	-1.2	-2.6	-4.5	V
Forward Transfer Admittance	/ yfs	V <sub>DS</sub> =5V, V <sub>GS</sub> =0, f=1kHz	24	32		mS

\*\* : Pulse Test Pulse Width 2mS. \* : The 2SK2218 is classified by I<sub>DS8</sub> as follows (unit : mA).

40	<b>3</b>	52	48 4	63	57	5	75
Marking	: KN		generation of the	\$ }	and the state of t	E. I.	

I<sub>DSS</sub> ranks : 3, 4, 5

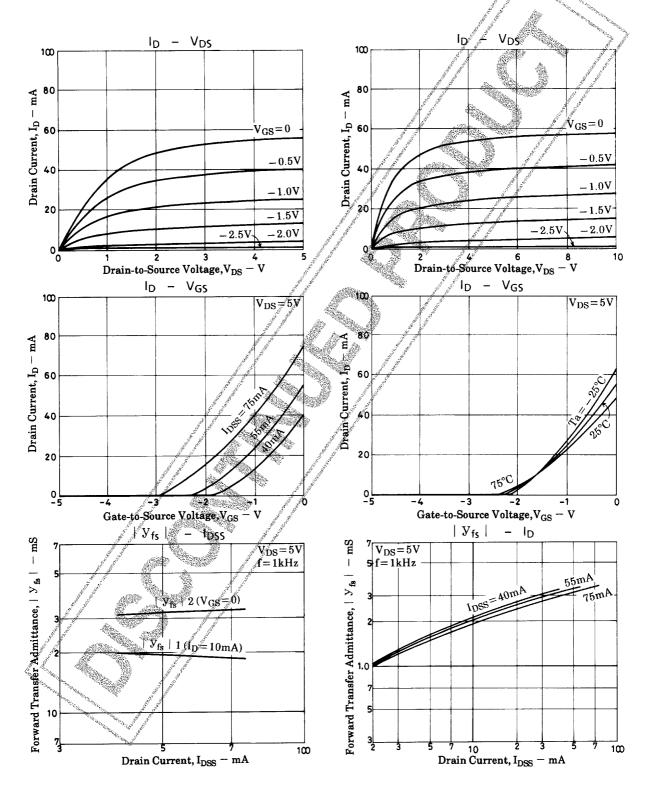
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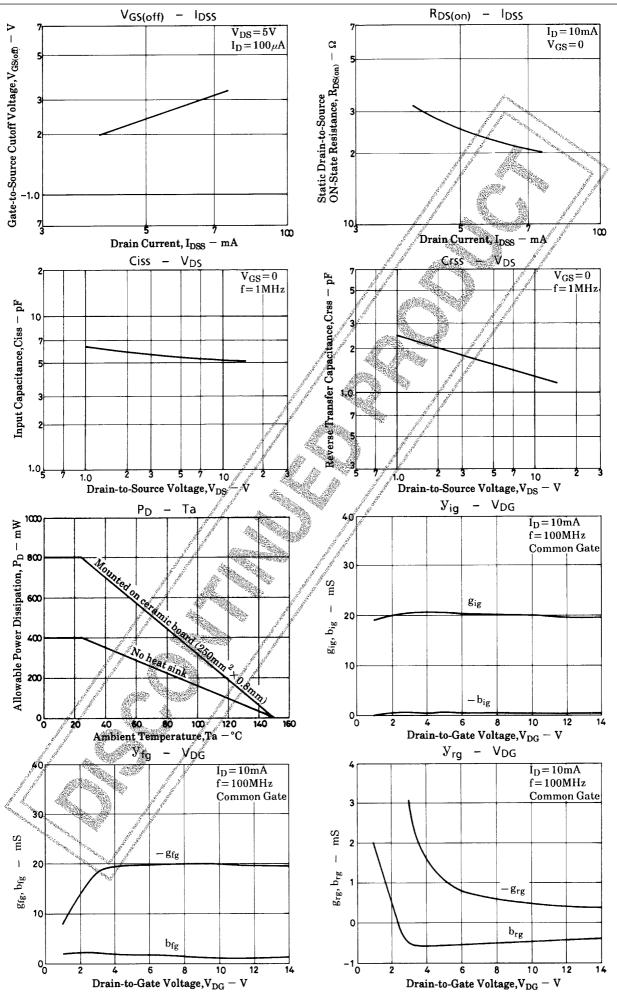
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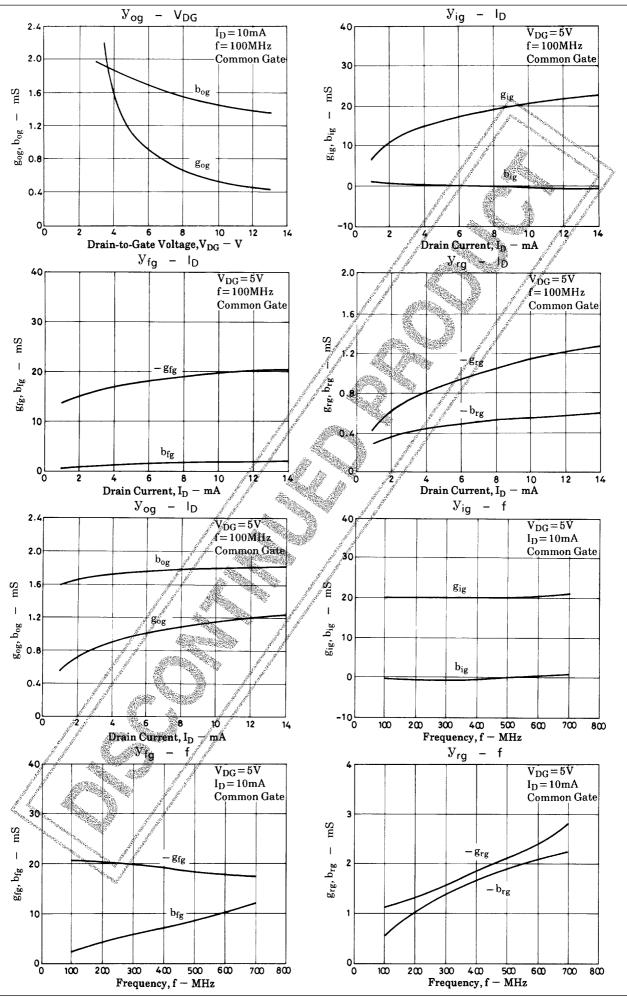
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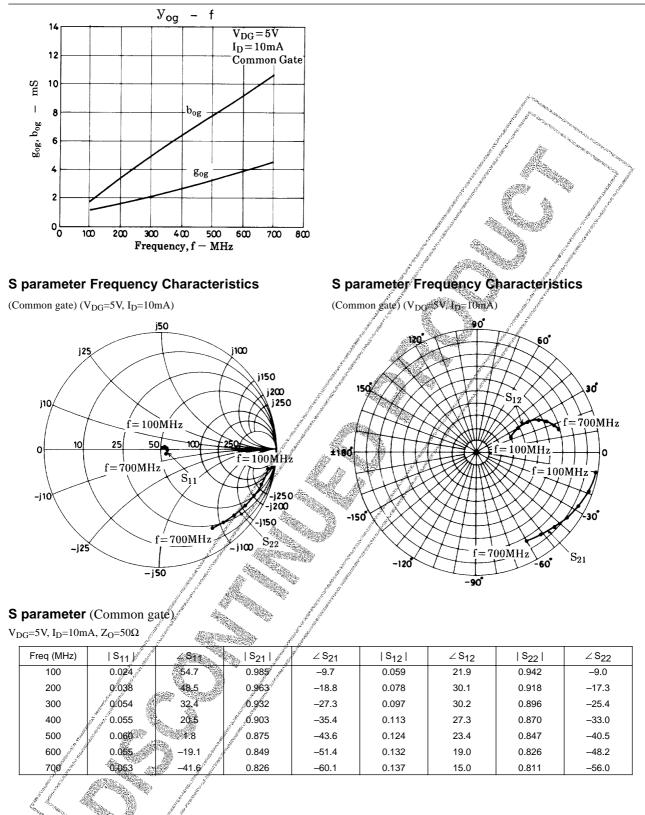
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Parameter	Svmbol	Conditions	Ratings			Unit
Farameter	Symbol	Conditions	min	typ	max	
Input Capacitance	Ciss	V <sub>DS</sub> =5V, V <sub>GS</sub> =0, f=1MHz		5.5		pF
Reverse Transfer Capacitance	Crss	V <sub>DS</sub> =5V, V <sub>GS</sub> =0, f=1MHz	Čena	1.6		pF
Noise Figure	NF	V <sub>DS</sub> =5V, Rg=1kΩ, I <sub>D</sub> =5mA, f=1kHz		1.3		dB
Static Drain-to-Source ON-State Resistance	R <sub>DS(on)</sub>	I <sub>D</sub> =10mA, V <sub>GS</sub> =0	and a start of the	30		Ω
		1	r e	1 2 C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		









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