

2SK2539

High-Frequency Amplifier, Analog Switch Applications

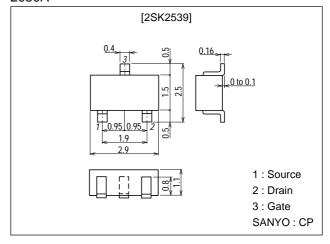
Features

- · Large | y_{fs} |.
- · Small Ciss.
- · Small-sized package permitting 2SK2539-applied sets to be made small and slim.
- · Adoption of FBET process.

Package Dimensions

unit:mm

2050A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSX}		15	V
Gate-to-Drain Voltage	V _{GDS}		-15	V
Gate Current	IG		5	mA
Drain Current	I _D		50	mA
Allowable Power Dissipation	P _D		200	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Oille
Gate-to-Drain Breakdown Voltage	V(BR)GDS	I _G =-10μA, V _{DS} =0	-15			V
Gate-to-Source Leakage Current	IGSS	V_{GS} =-10V, V_{DS} =0			-1.0	nA
Zero-Gate Voltage Drain Current	IDSS	$V_{DS}=5V$, $V_{GS}=0$	10.0*		50.0*	mA
Cutoff Voltage	VGS(off)	V _{DS} =5V, I _D =10μA	-0.6	-1.4	-3.0	V
Forward Transfer Admittance	yfs 1	V _{DS} =5V, I _D =10mA, f=1kHz	14	21		mS
	yfs 2	$V_{DS}=5V$, $V_{GS}=0$, $f=1kHz$	14	29		mS

^{*} : The 2SK2539 is classified by I_{DSS} as follows : (unit : mA)

10.0 6 20.0 16.0 7 32.0 25.0 8 50.0

Marking : AK I_{DSS} rank : 6, 7, 8

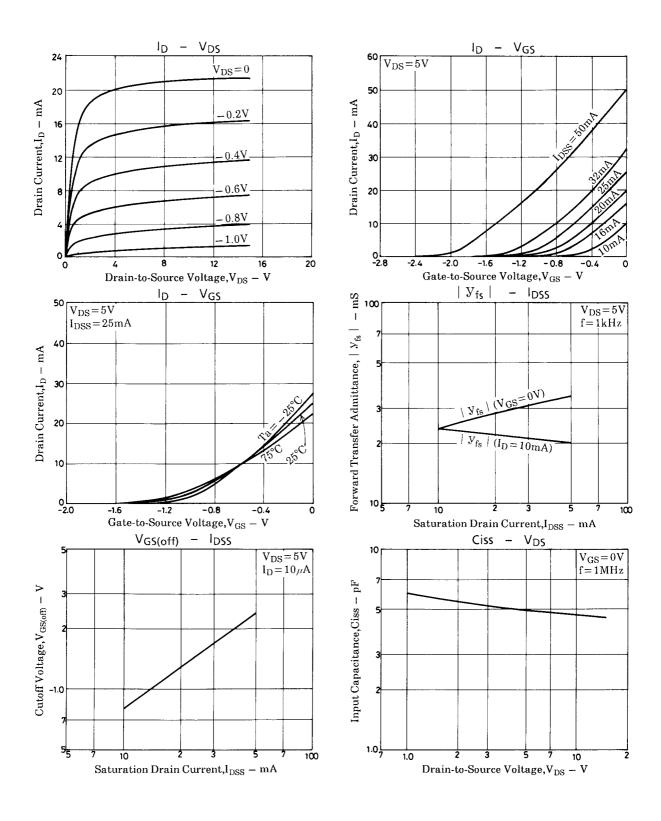
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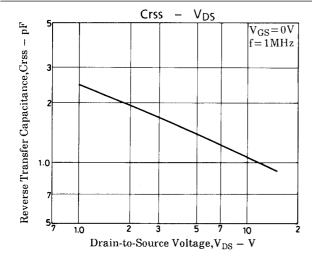
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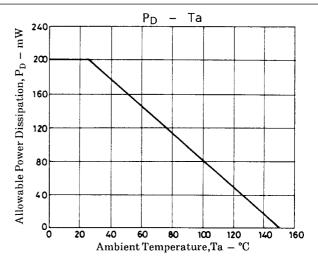
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Input Capacitance	Ciss	V _{DS} =5V, V _{GS} =0, f=1MHz		4.9		pF
Reverse Transfer Capacitance	Crss	V _{DS} =5V, V _{GS} =0, f=1MHz		1.4		pF



2SK2539





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