	No.5075	2SK2539
		N-Channel Junction Silicon FET High-Frequency Amp, 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.

Absolute Maximum Ratings at Ta=25°C

			unit
Drain-to-Source Voltage	V_{DSX}	15	V
Gate-to-Drain Voltage	V_{GDS}	-15	V
Gate Current	I_G	5	mA
Drain Current	I_D	50	mA
Allowable Power Dissipation	P_D	200	mW
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55 to +150	°C

Electrical Characteristics at Ta=25°C

			min	typ	max	unit
G-D Breakdown Voltage	$V_{(BR)GDS}$	$I_G = -10\mu A, V_{DS} = 0$	-15			V
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS} = -10V, V_{DS} = 0$			-1.0	nA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 5V, I_D = 10\mu A$	-0.6	-1.4	-3.0	V
Drain Current	I_{DSS}	$V_{DS} = 5V, V_{GS} = 0$	10.0*		50.0*	mA
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS} = 5V, I_D = 10mA, f = 1kHz$	14	21		mS
	$ Y_{fs} $	$V_{DS} = 5V, V_{GS} = 0, f = 1kHz$	14	29		mS
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

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

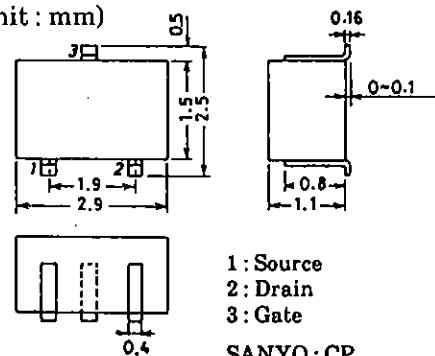
10.0	6	20.0	16.0	7	32.0	25.0	8	50.0
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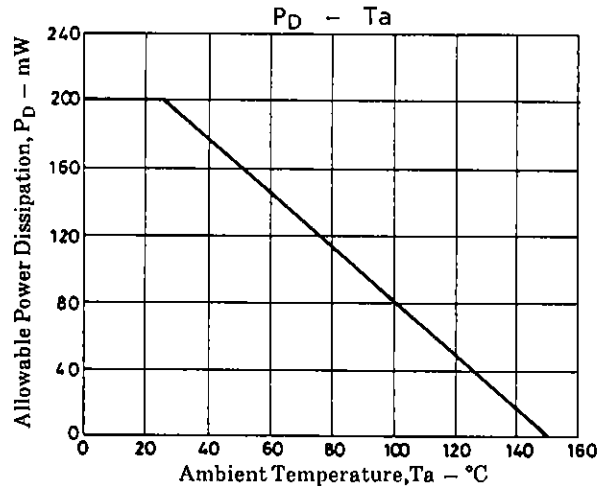
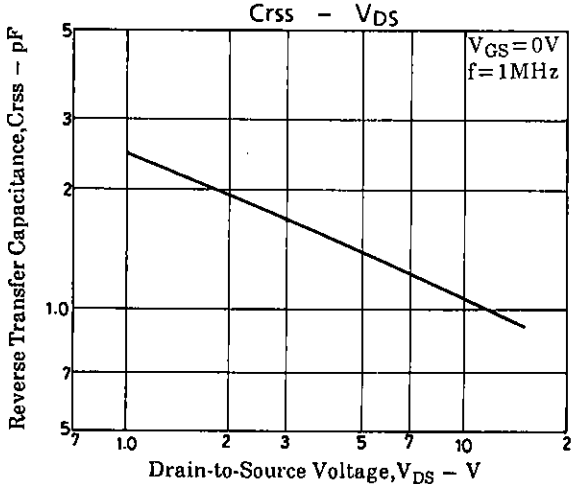
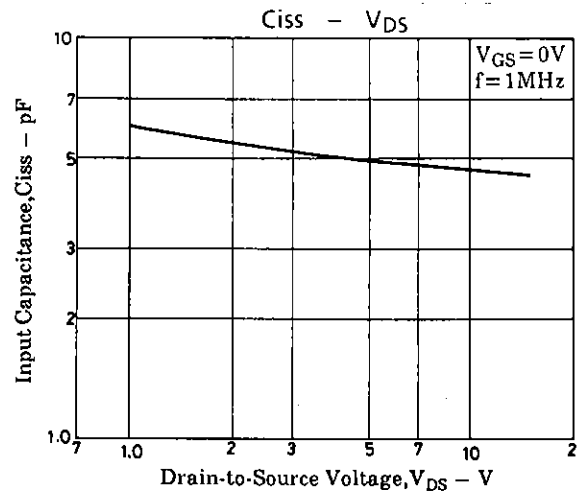
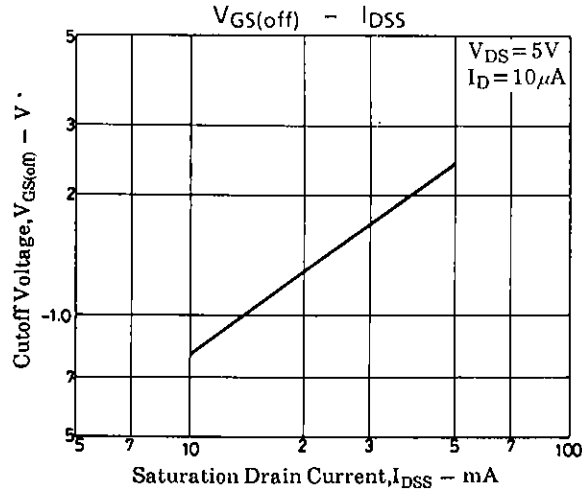
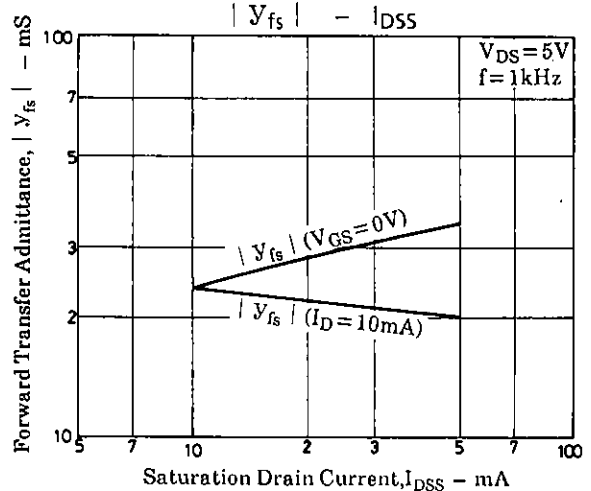
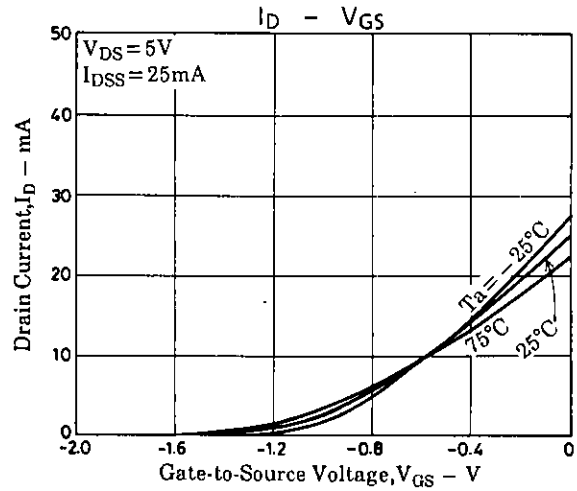
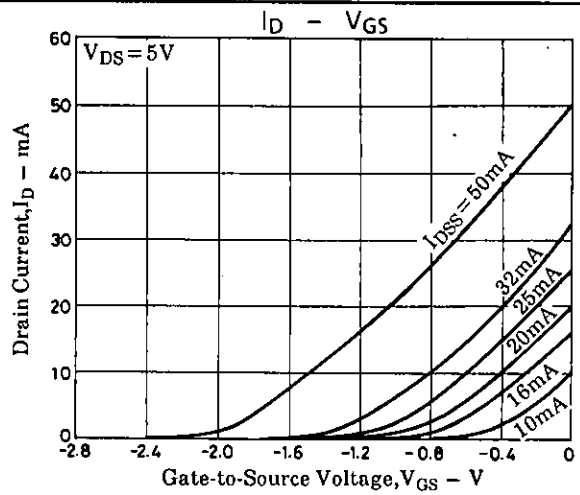
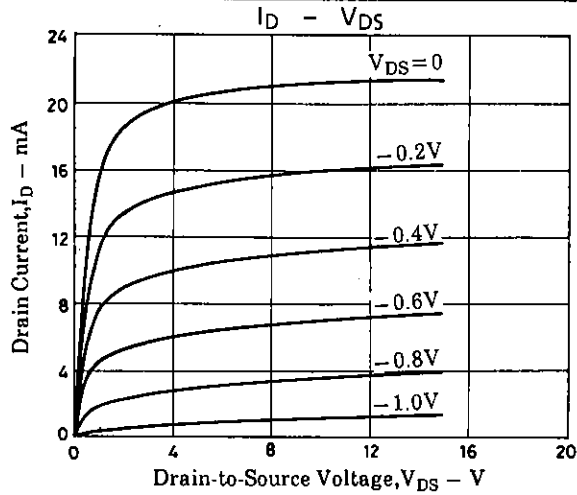
Marking : AK

I_{DSS} rank : 6, 7, 8

Package Dimensions 2050A

(unit : mm)





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