

SANYO	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} _1$	$V_{DS} = 5V, I_D = 10mA, f = 1kHz$	14	21		mS
	$ Y_{fs} _2$	$V_{DS} = 5V, V_{GS} = 0, f = 1kHz$	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)

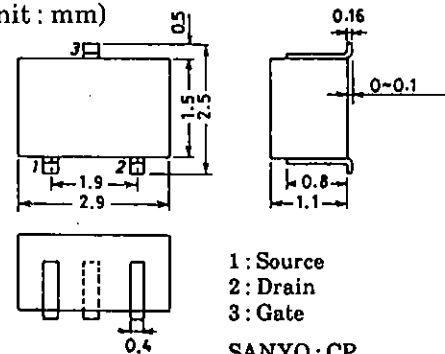
10.0	6	20.0	16.0	7	32.0	25.0	8	50.0
------	---	------	------	---	------	------	---	------

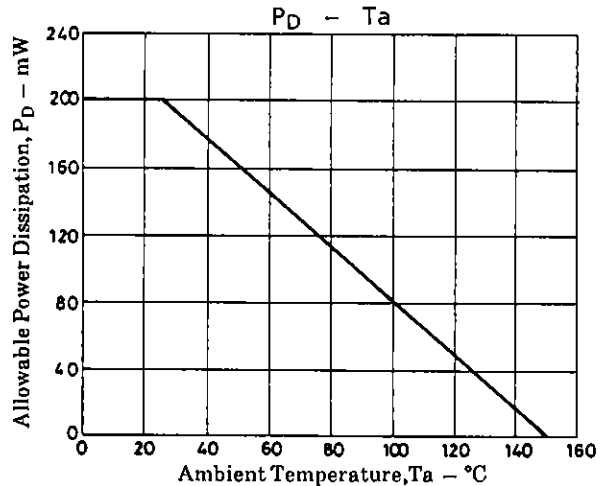
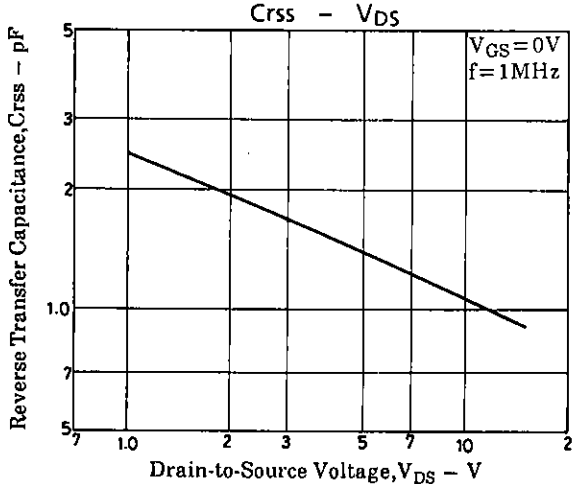
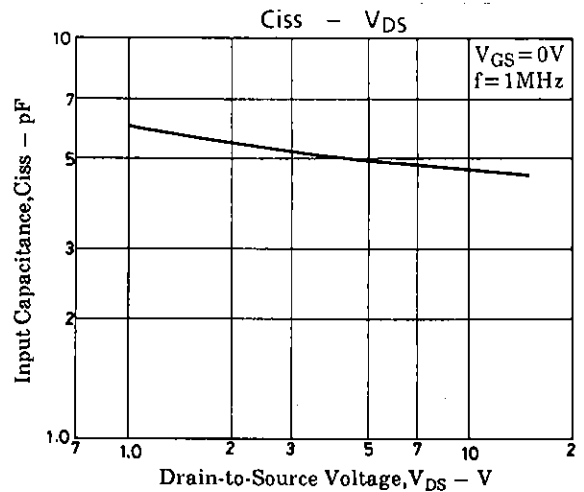
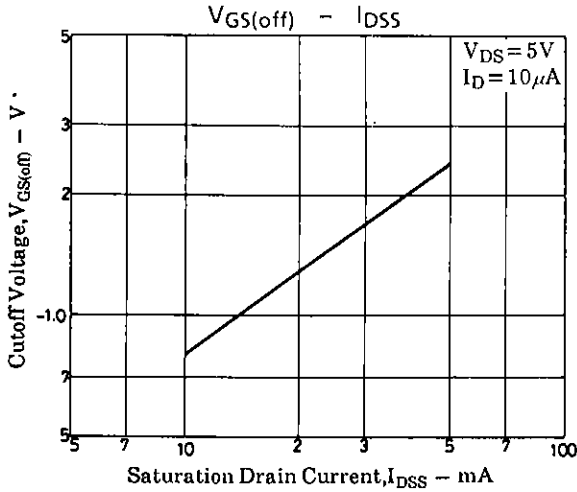
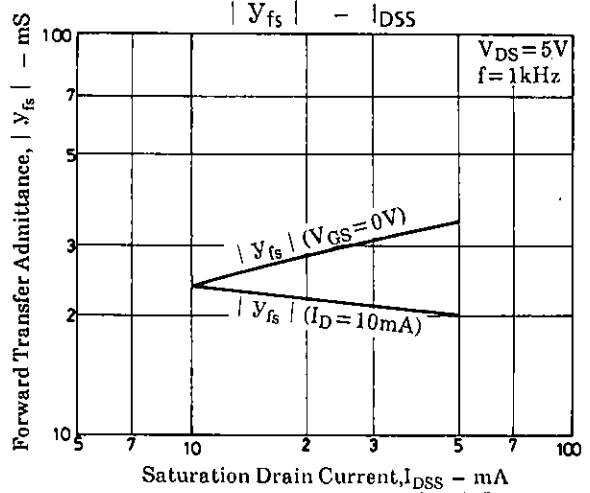
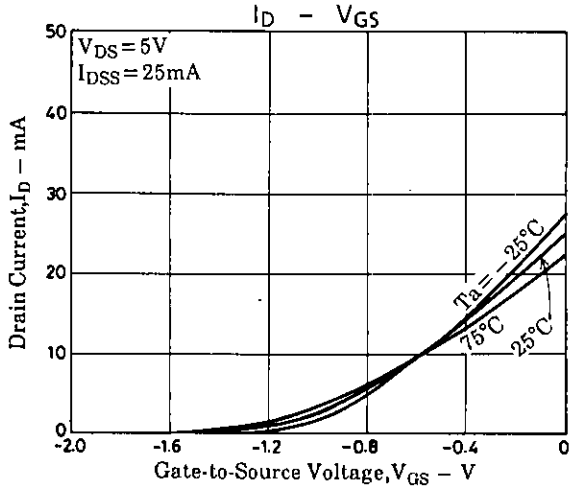
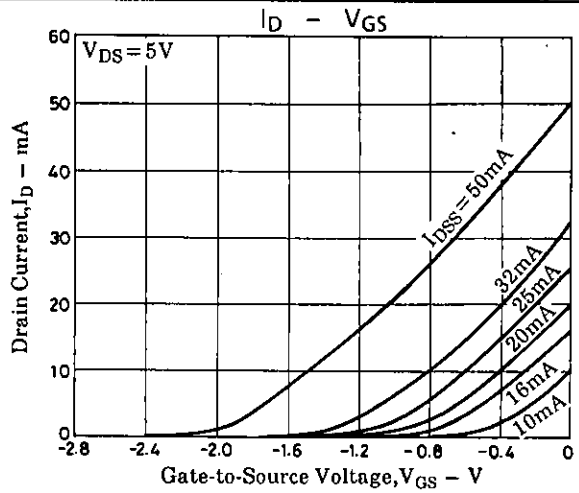
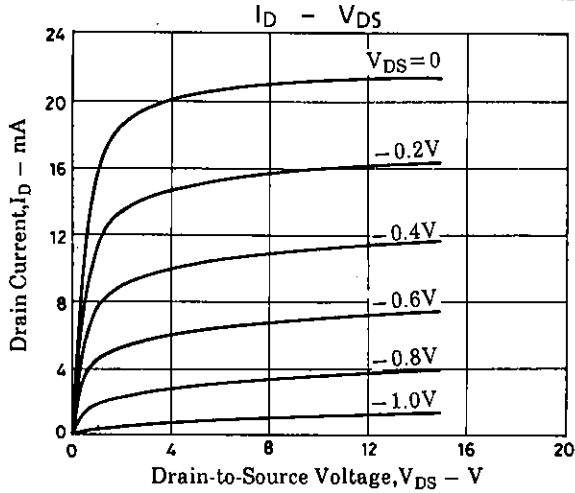
Marking : AK

I_{DSS} rank : 6, 7, 8

Package Dimensions 2050A

(unit : mm)





- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
 - ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
 - ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.