

SANYO	No.4499	2SK2074
		N-Channel Junction Silicon FET High-Frequency Low-Noise Amp Applications

Applications

- AM tuner RF amp applications.
- Low-noise amp.

Features

- Large $|Y_{fs}|$
- Small Ciss
- Very low noise figure.

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	10	mA
Drain Current	I_D	50	mA
Allowable Power Dissipation	P_D	300	mW
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55 to +150	°C

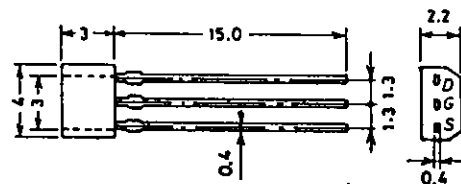
Electrical Characteristics at Ta = 25°C

			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	$V_{GS(off)}$	$V_{DS} = 5V, I_D = 100\mu A$	-0.3	-0.6	-1.2	V
Drain Current	I_{DSS}	$V_{DS} = 5V, V_{GS} = 0$	6.0*		20.0*	mA
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS} = 5V, V_{GS} = 0, f = 1kHz$	20	30		mS
Input Capacitance	Ciss	$V_{DS} = 5V, V_{GS} = 0, f = 1MHz$		9.5		pF
Reverse Transfer Capacitance	Crss	$V_{DS} = 5V, V_{GS} = 0, f = 1MHz$		2.7		pF
Noise Figure	NF	$V_{DS} = 5V, R_g = 1k\Omega, I_D = 1mA, f = 1MHz$		0.5		dB

* : The 2SK2074 is classified by I_{DSS} as follows (unit : mA)

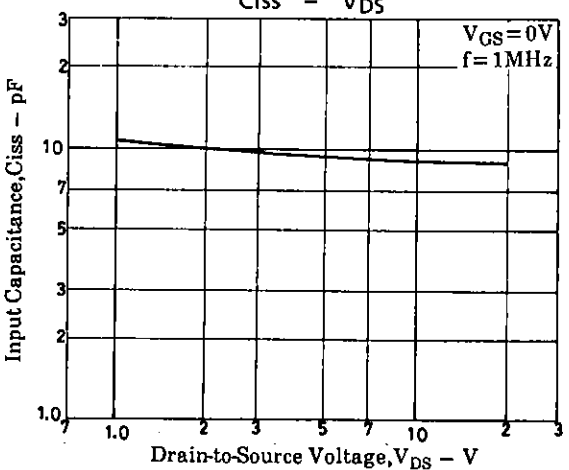
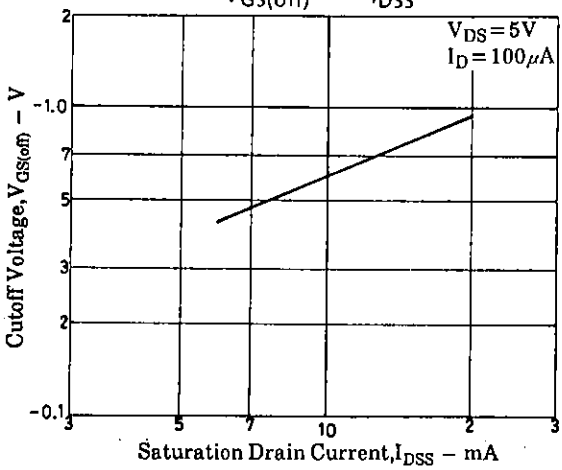
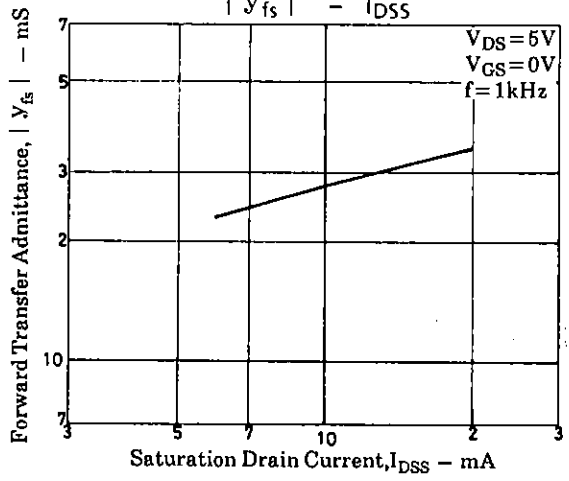
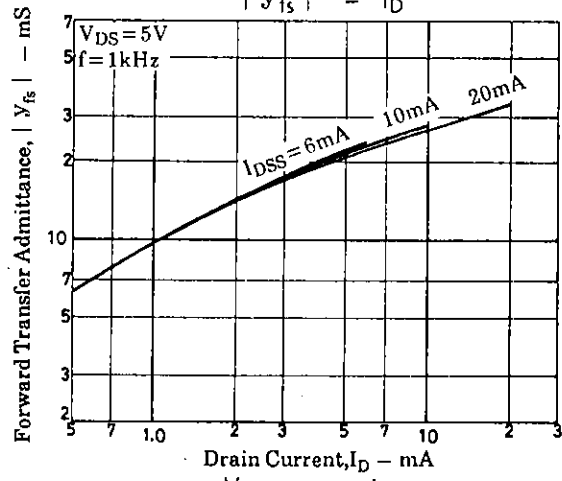
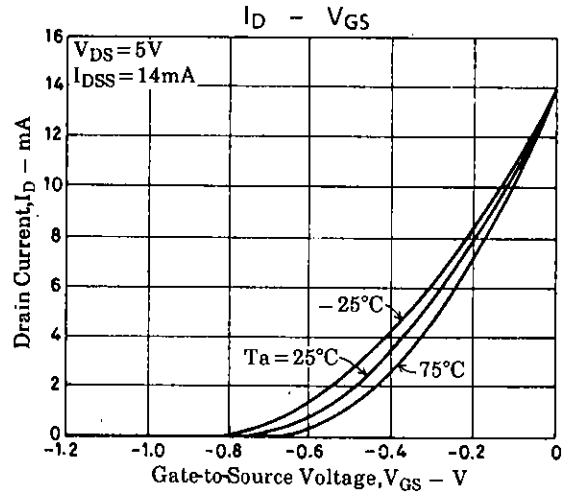
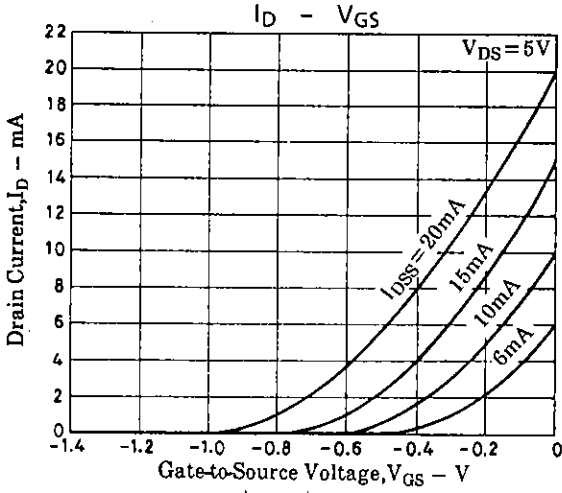
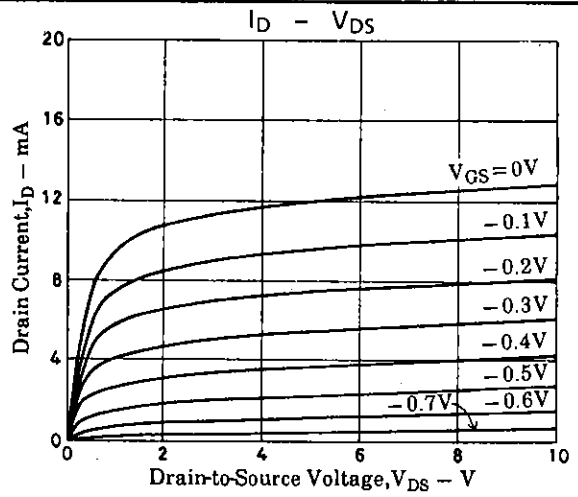
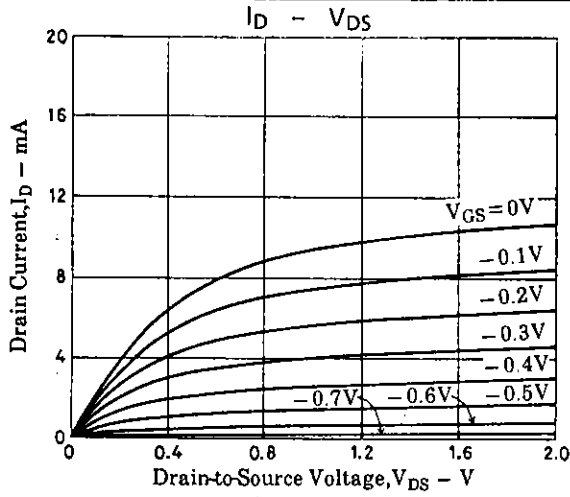
6.0	F	12.0	10.0	G	20.0
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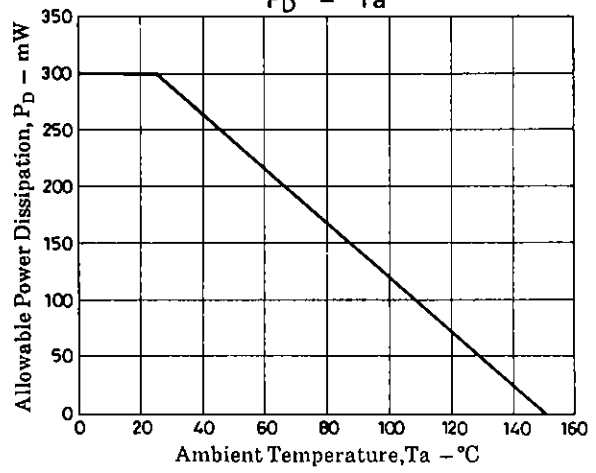
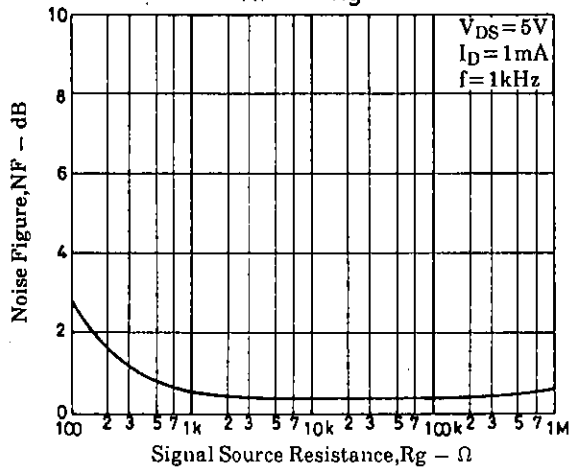
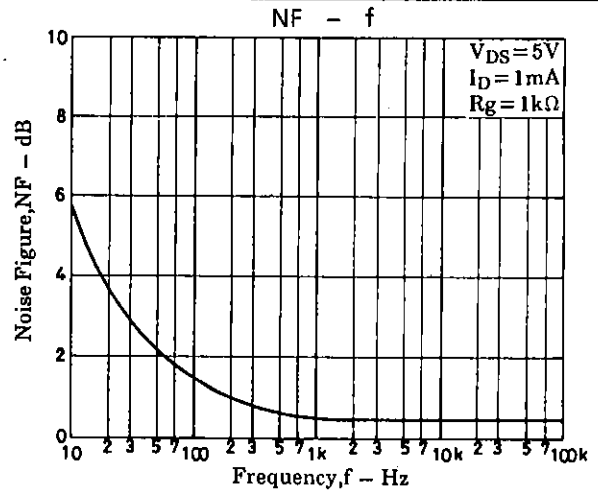
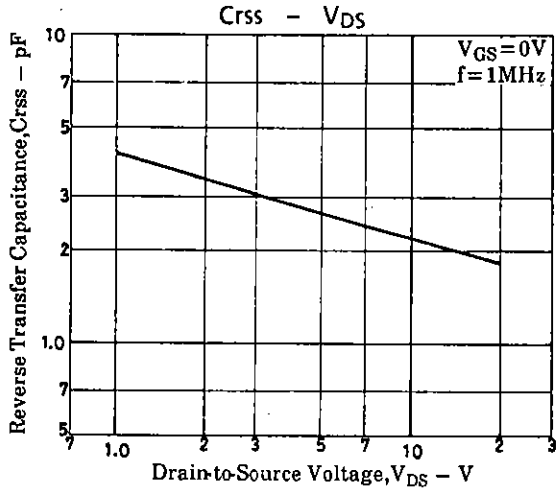
Package Dimensions 2034
(unit: mm)



D: Drain
G: Gate
S: Source

SANYO: SPA





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