

SANYO	No.2749	2SK1069
		N-Channel Junction Silicon FET Low-Frequency General-Purpose Amp Applications

Applications

- Low-frequency general-purpose amplifiers
- Ideal for use in variable resistors, analog switches, low-frequency amplifiers, and constant-current circuits

Features

- Adoption of FBET process
- Very small-sized package permitting 2SK1069-applied sets to be made smaller and slimmer

Absolute Maximum Ratings at Ta = 25°C

			unit
Drain to Source Voltage	V_{DSX}	40	V
Gate to Drain Voltage	V_{GDS}	-40	V
Gate Current	I_G	10	mA
Drain Current	I_D	20	mA
Allowable Power Dissipation	P_D	150	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
Gate to Drain Breakdown Voltage	$V_{(BR)GDS}$	$I_G = -10\mu A, V_{DS} = 0$	-40			V
Gate Cutoff Current	I_{GSS}	$V_{GS} = -20V, V_{DS} = 0$			-1.0	nA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 10V, I_D = 1\mu A$	-0.3	-0.9	-2.0	V
Drain Current	I_{DSS}	$V_{DS} = 10V, V_{GS} = 0$	※1.2		※12.0	mA
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = 10V, V_{GS} = 0, f = 1kHz$	4.5	9.0		mS
Input Capacitance	C_{iss}	$V_{DS} = 10V, V_{GS} = 0, f = 1MHz$		9.0		pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS} = 10V, V_{GS} = 0, f = 1MHz$		2.1		pF
Noise Figure	NF	$V_{DS} = 10V, R_g = 1k\Omega, I_D = 1mA, f = 1kHz$		1.5		dB

※: The 2SK1069 is classified by I_{DSS} as follows (unit: mA):

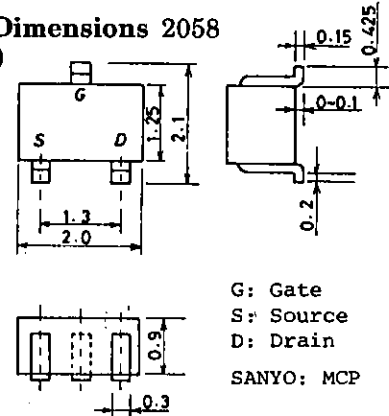
1.2	3	3.0	2.5	4	6.0	5.0	5	12.0
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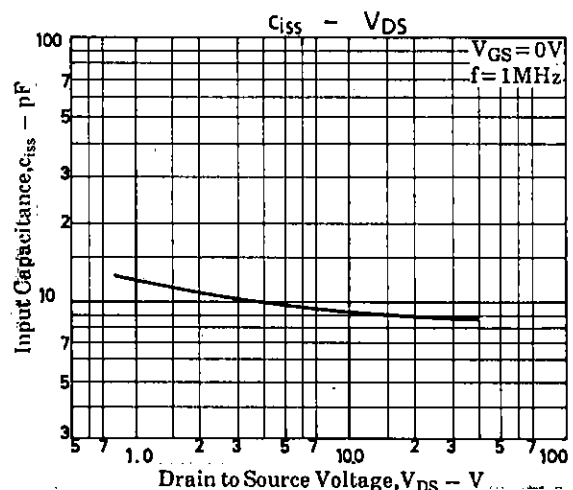
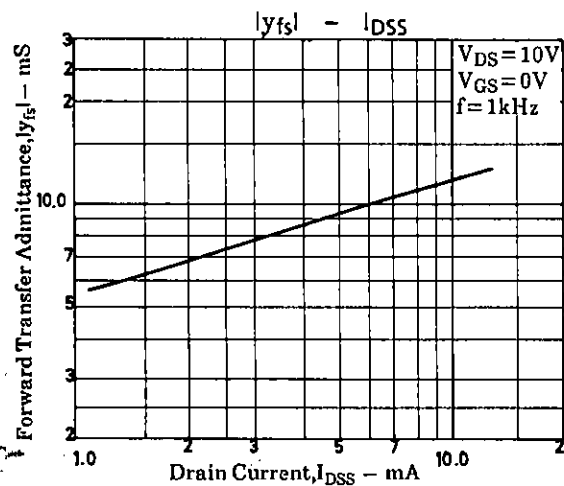
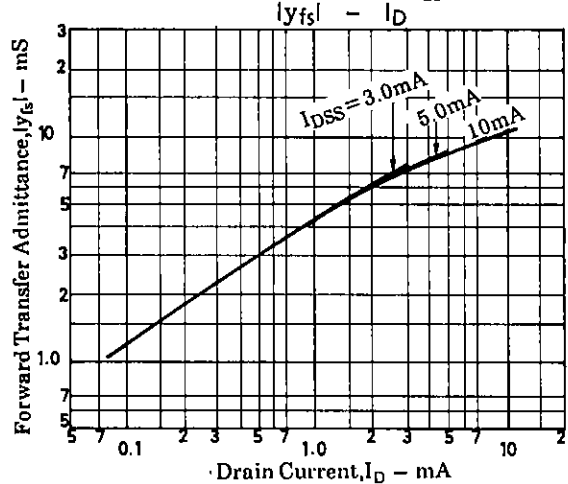
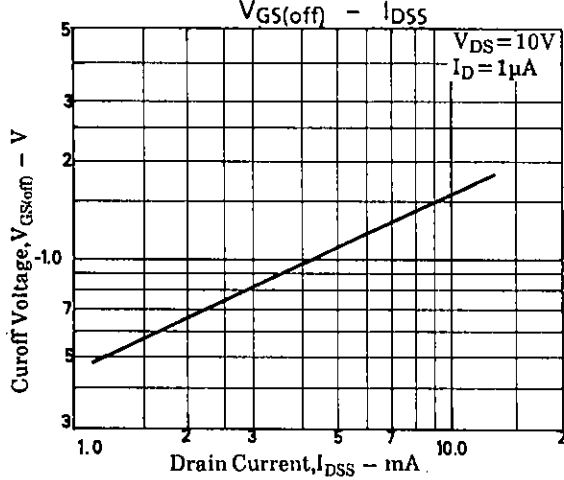
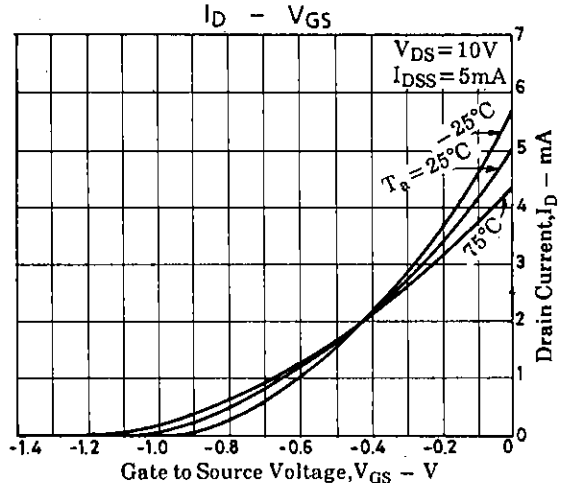
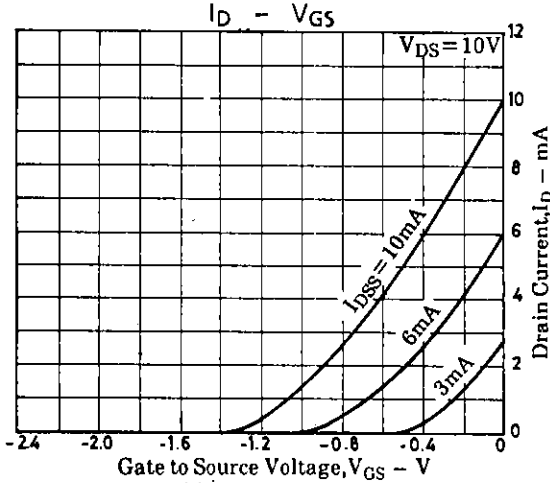
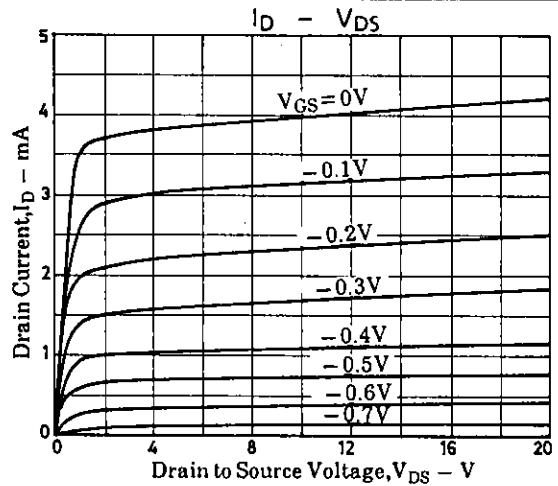
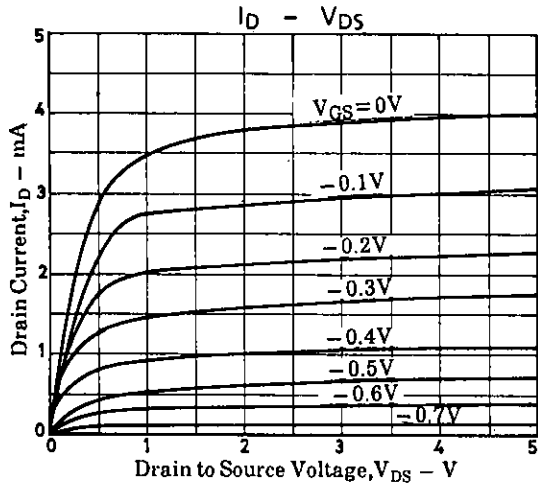
(Note) Marking: FJ

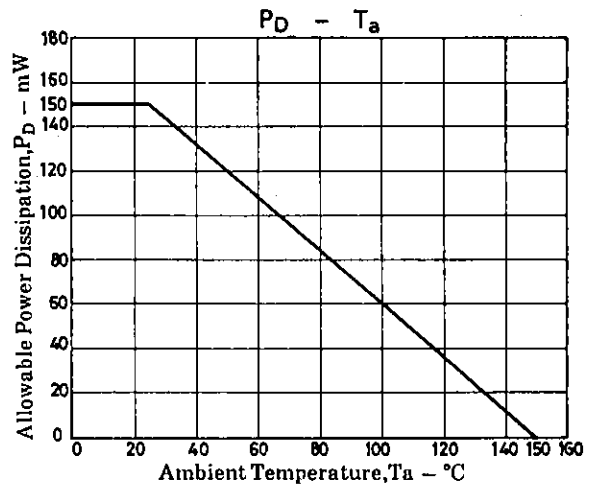
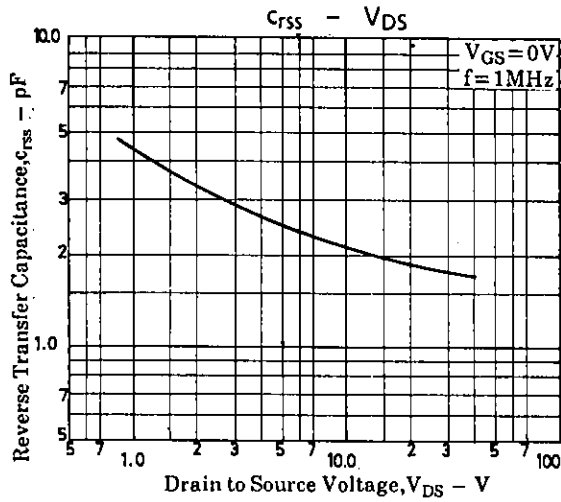
I_{DSS} rank: 3,4,5

●For CP package version, use the 2SK771.

Package Dimensions 2058
(unit: mm)







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