

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

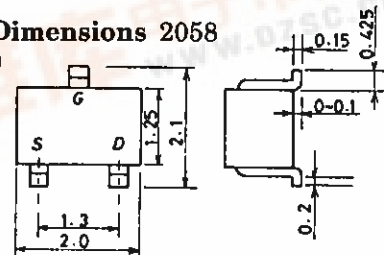
		min	typ	max	unit
Gate to Drain Breakdown Voltage	V _{(BR)GDS} I _G = -10μA, V _{DS} = 0	-40			V
Gate Cutoff Current	I _{GSS} V _{GS} = -20V, V _{DS} = 0			-1.0	nA
Cutoff Voltage	V _{GS(off)} V _{DS} = 10V, I _D = 1μA	-0.3	-0.9	-2.0	V
Drain Current	I _{DSS} V _{DS} = 10V, V _{GS} = 0	※1.2		※12.0	mA
Forward 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 = 1kΩ, 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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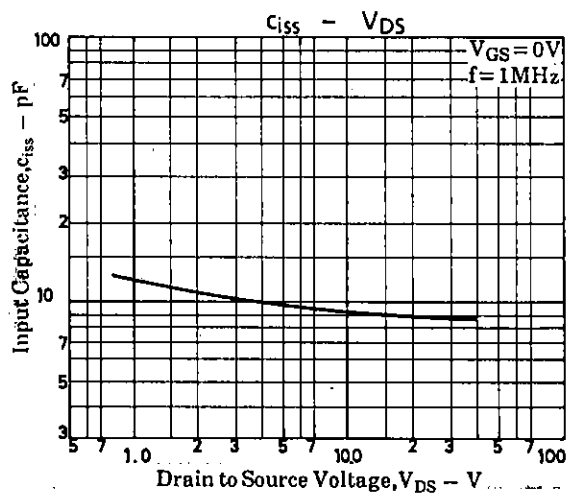
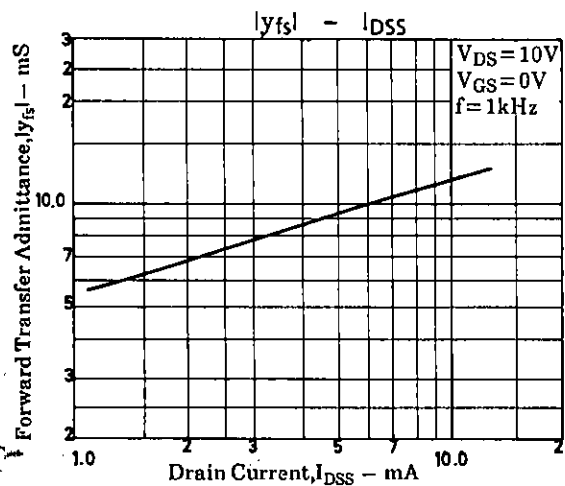
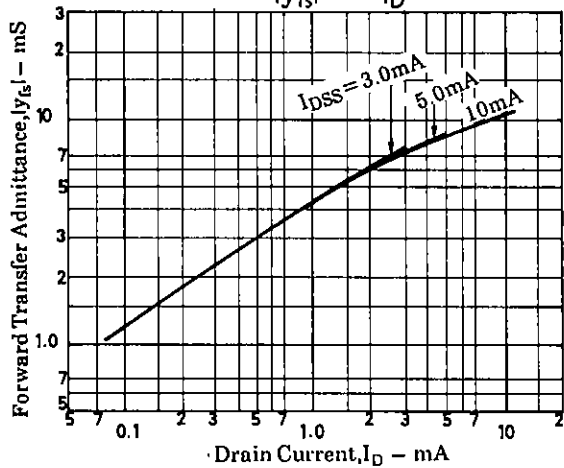
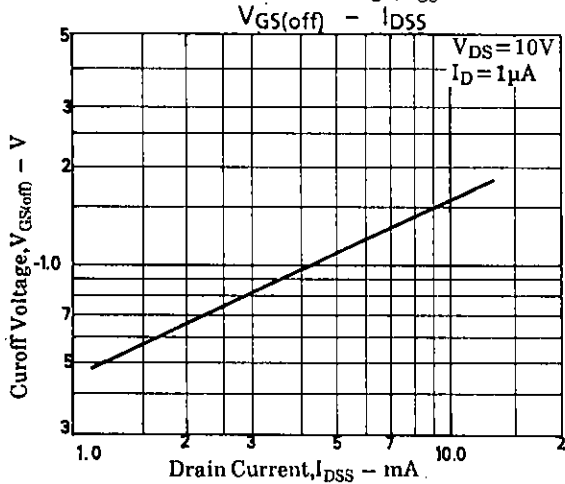
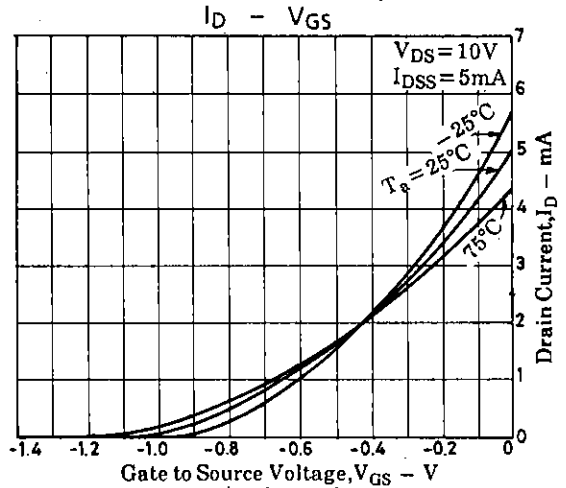
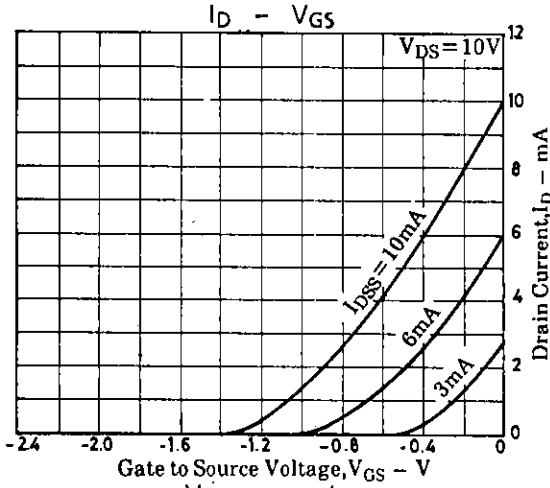
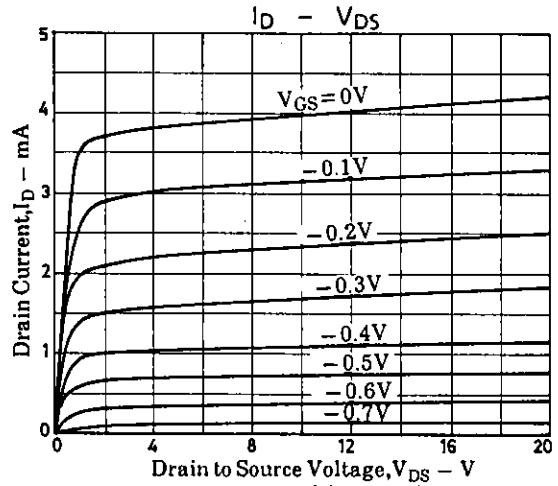
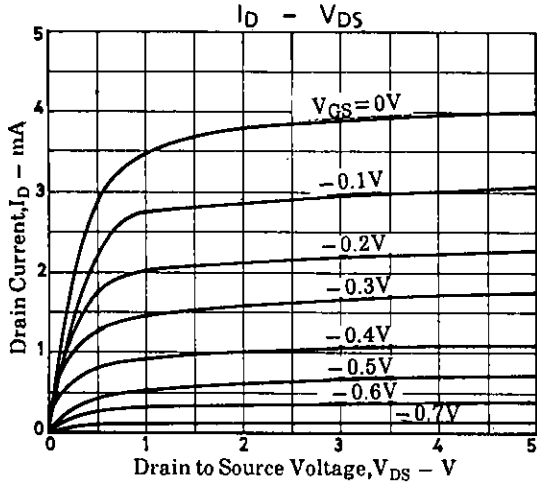
- (Note) Marking: FJ
 I_{DSS} rank: 3,4,5
 ●For CP package version, use the 2SK771.

Package Dimensions 2058
(unit: mm)

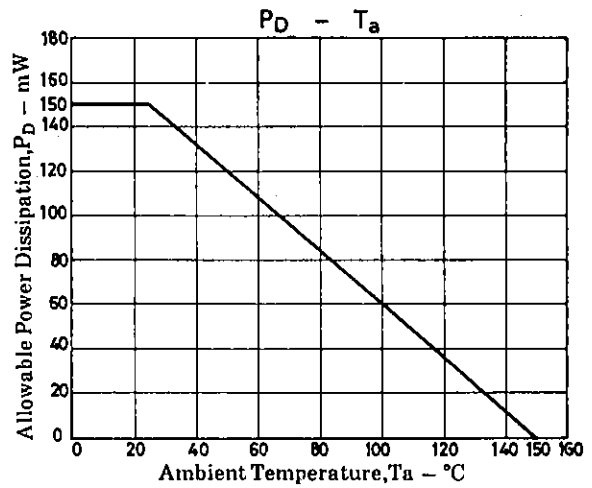
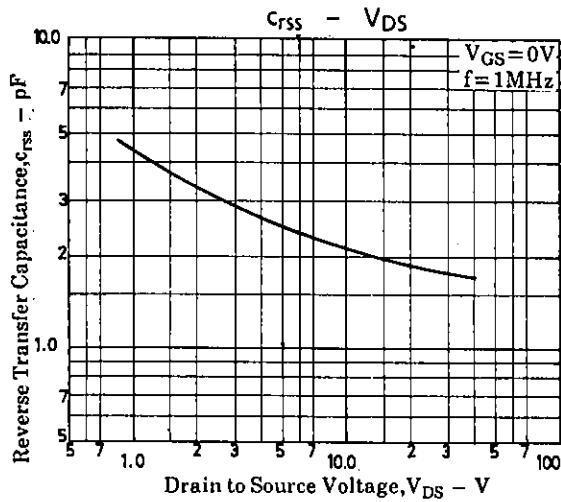


G: Gate
 S: Source
 D: Drain
 SANYO: MCP





2SK1069



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