

2SK1069

Low-Frequency General-Purpose Amplifier Applications

Applications

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

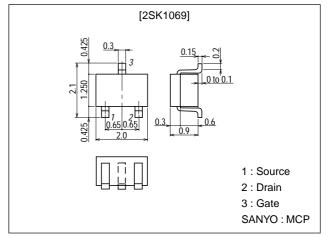
Features

- · Adoption of FBET process.
- · Ultrasmall-sized package permitting 2SK1069-applied sets to be made smaller and slimmer.

Package Dimensions

unit:mm

2058



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSX}		40	V
Gate-to-Drain Voltage	V _{GDS}		-40	V
Gate Current	IG		10	mA
Drain Current	ID		20	mA
Allowable Power Dissipation	P _D		150	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Gate-to-Drain Breakdown Voltage	V(BR)GDS	I_{G} =-10 μ A, V_{DS} =0	-40			V
Gate-to-Source Leakage Current	I _{GSS}	V _{GS} =-20V, V _{DS} =0			-1.0	nA
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =10V, V _{GS} =0	1.2*		12.0*	mA
Cutoff Voltage	VGS(off)	V _{DS} =10V, I _D =1μA	-0.3	-0.9	-2.0	V
Forward Transfer Admittance	yfs	V_{DS} =10V, V_{GS} =0, f=1kHz	4.5	9.0		mS

 $\mbox{\ensuremath{^{*}}}$: 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

(Note) Marking: FJ

I_{DSS} rank : 3, 4, 5

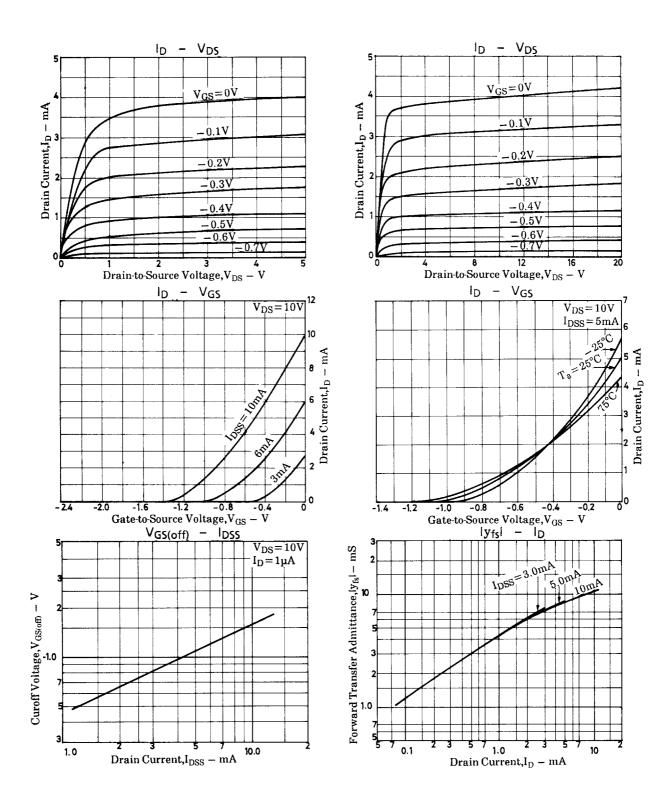
- For CP package version, use the 2SK771.
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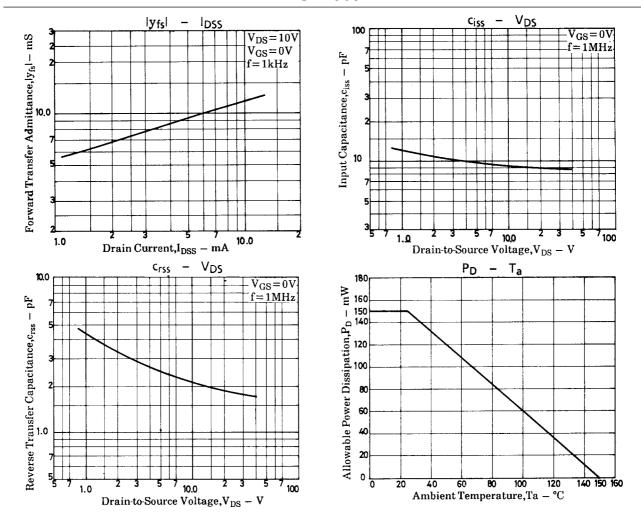
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Parameter	Symbol	Conditions	Ratings	Unit
Input Capacitance	Ciss	V _{DS} =10V, V _{GS} =0, f=1MHz	9.0	pF
Reverse Transfer Capacitance	Crss	V_{DS} =10V, V_{GS} =0, f=1MHz	2.1	pF
Noise Figure	NF	V_{DS} =10V, Rg=1k Ω , I $_{D}$ =1mA, f=1kHz	1.5	dB





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