



AF Amplifier Applications

Applications

· Variable resistors, analog switches, AF amplifier, constant-current circuit.

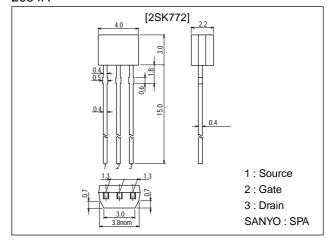
Features

· Adoption of FBET process.

Package Dimensions

unit:mm

2034A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V _{DSX}		40	V
Gate-to-Source Voltage	V _{GDS}		-40	V
Gate Current	IG		10	mA
Drain Current	I _D		20	mA
Allowable Power Dissipation	P _D		300	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

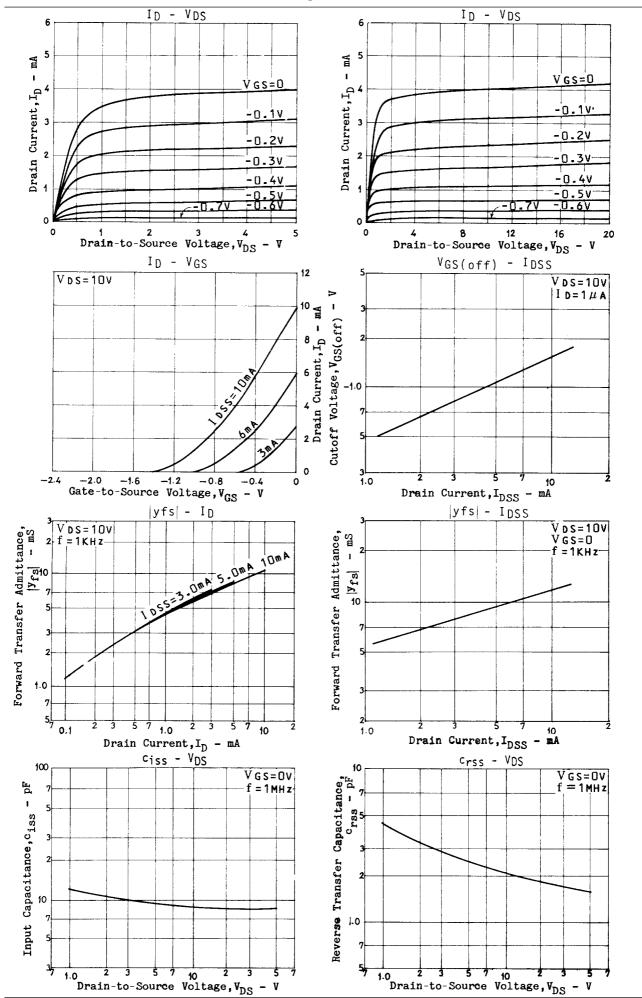
Electrical Characteristics at Ta = 25°C

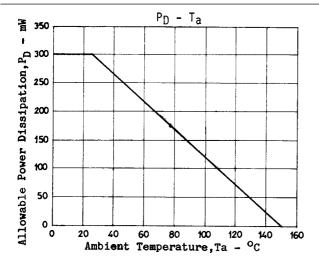
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Gate-to-Drain Breakdown Voltage	V(BR)GDS	I _G =-10μA, V _{DS} =0	-40			V
Gate-to-Source Leakage Current	IGSS	V _{GS} =-20V, V _{DS} =0			-1.0	nA
Zero-Gate Voltage Drain Current	I _{DSS} *	V _{DS} =10V, V _{GS} =0	1.2*		12.0*	mA
Cutoff Voltage	IGS(off)	V _{DS} =10V, I _D =1μA	-0.3	-0.9	-2.5	V
Forward Transfer Admittance	yfs	V_{DS} =10V, V_{GS} =0, f=1kHz	4.5	9.0		mS
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

^{*}: The 2SK772 is classified by I_{DSS} as follows: (unit: mA).

1.2 D 3.0 2.5 E 6.0 5.0 F 12.0

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