

**2SK772****AF Amplifier Applications****Applications**

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

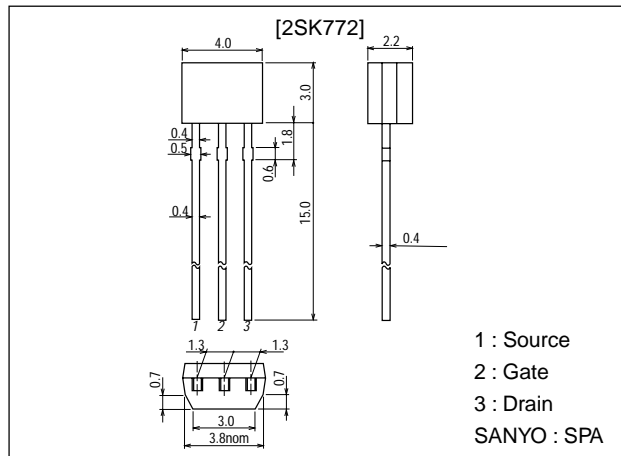
Features

- 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	I_G		10	mA
Drain Current	I_D		20	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

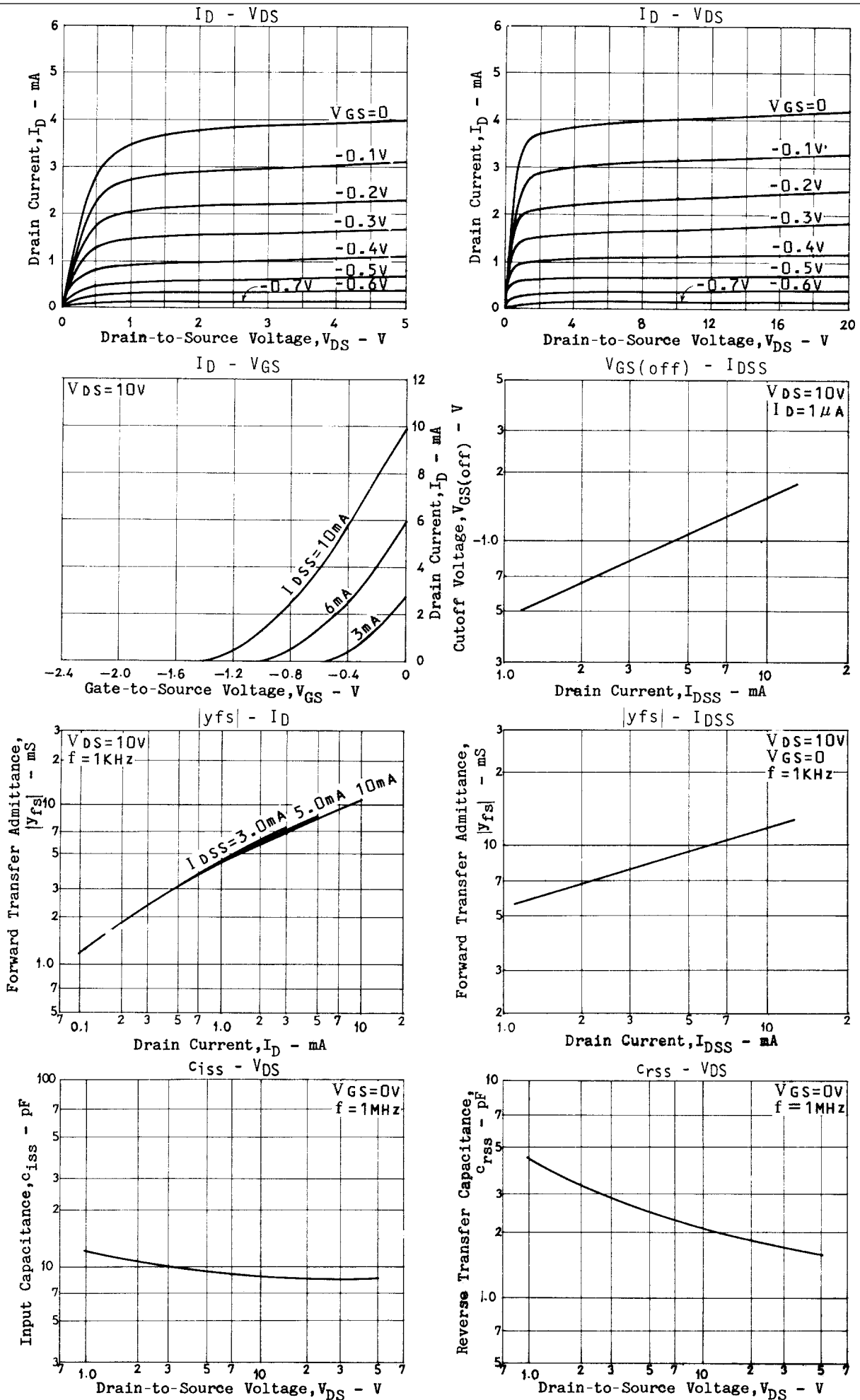
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	$V_{(BR)GDS}$	$I_G = -10\mu A, V_{DS} = 0$	-40			V
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS} = -20V, V_{DS} = 0$			-1.0	nA
Zero-Gate Voltage Drain Current	I_{DSS}^*	$V_{DS} = 10V, V_{GS} = 0$	1.2*		12.0*	mA
Cutoff Voltage	$I_{GS(off)}$	$V_{DS} = 10V, I_D = 1\mu A$	-0.3	-0.9	-2.5	V
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

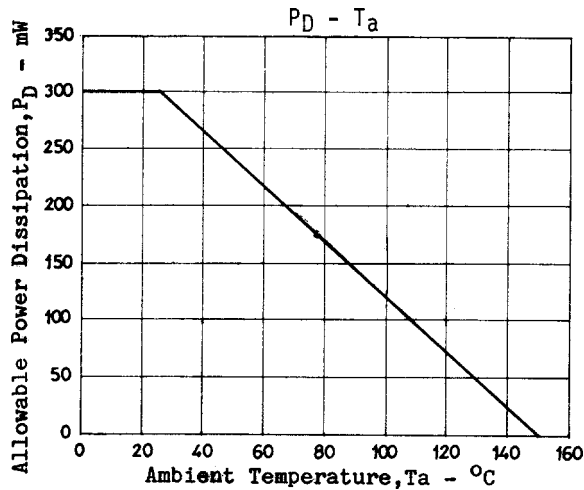
* : The 2SK772 is classified by I_{DSS} as follows : (unit : mA).

1.2	D	3.0	2.5	E	6.0	5.0	F	12.0
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