

Ordering number:EN850E

N-Channel Junction Silicon FET



**2SK304**

**Low-Frequency Amplifier Applications**

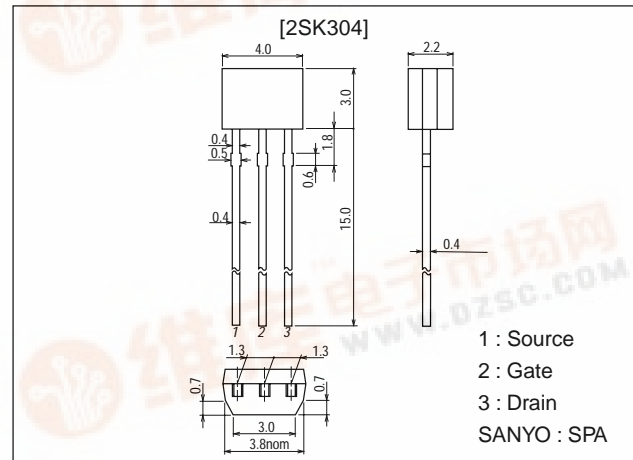
**Features**

- Ideal for potentiometers, analog switches, low frequency amplifiers, and constant-current regulators.

**Package Dimensions**

unit:mm

2034A



**Specifications**

**Absolute Maximum Ratings at Ta = 25°C**

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	$V_{DSS}$		30	V
Gate-to-Drain Voltage	$V_{GDS}$		-30	V
Gate Current	$I_G$		10	mA
Drain Current	$I_D$		20	mA
Allowable Power Dissipation	$P_D$		150	mW
Junction Temperature	$T_J$		125	°C
Storage Temperature	$T_{stg}$		-40 to +125	°C

**Electrical Characteristics at Ta = 25°C**

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	$V_{(BR)GDS}$	$I_G = -10\mu A$	-30			V
Gate-to-Source Leakage Current	$I_{GSS}$	$V_{GS} = -20V$			-1.0	nA
Zero-Gate Voltage Drain Current	$I_{DSS}^*$	$V_{DS} = 10V, V_{GS} = 0$	0.6*		12.0*	mA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 10V, I_D = 1\mu A$		-1	-4	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = 10V, V_{GS} = 0, f = 1MHz$	2.5	6.0		mS
Input Capacitance	$C_{iss}$	$V_{DS} = 10V, V_{GS} = 0, f = 1MHz$		5		pF
Reverse Transfer Capacitance	$C_{rss}$	$V_{DS} = 10V, V_{GS} = 0, f = 1MHz$		1.5		pF

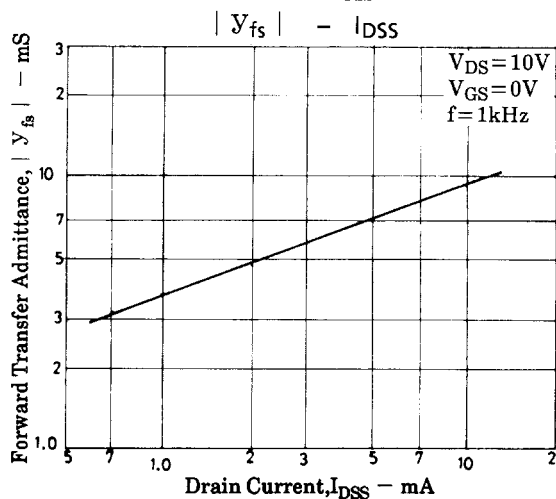
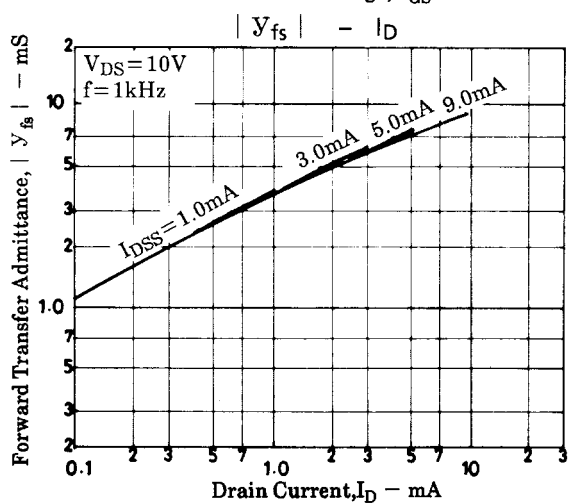
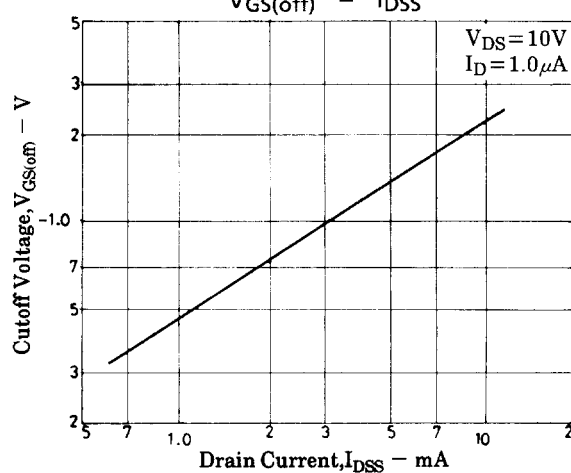
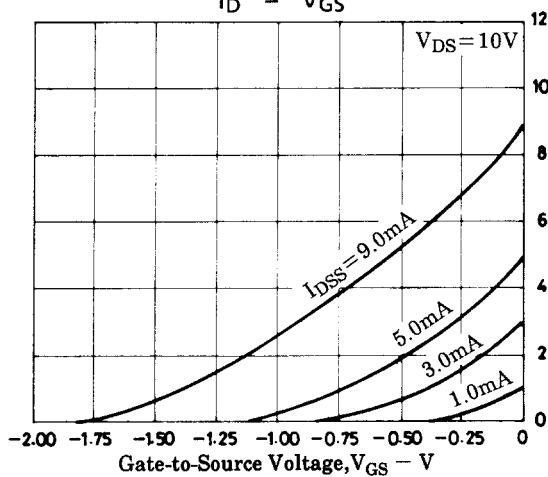
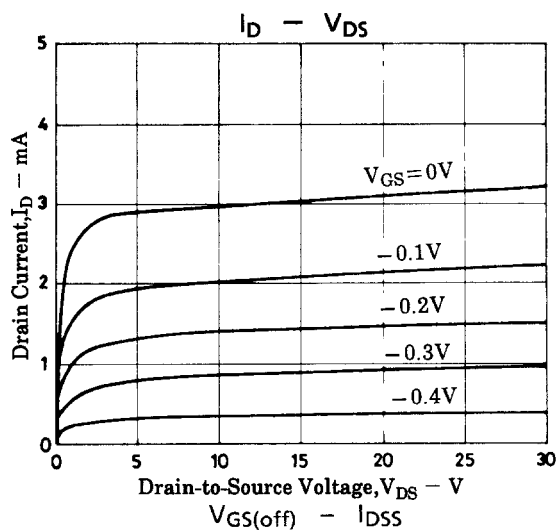
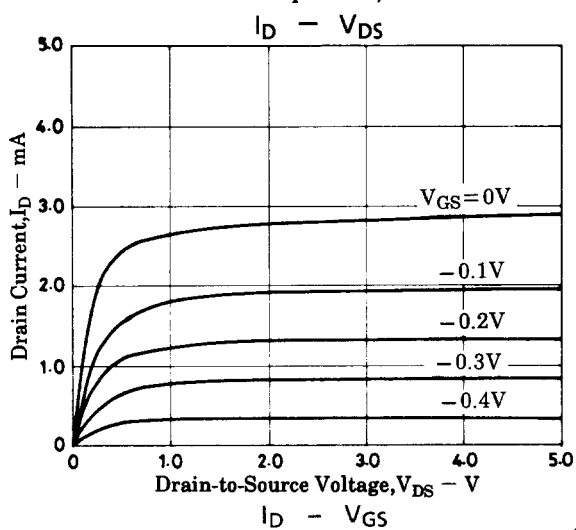
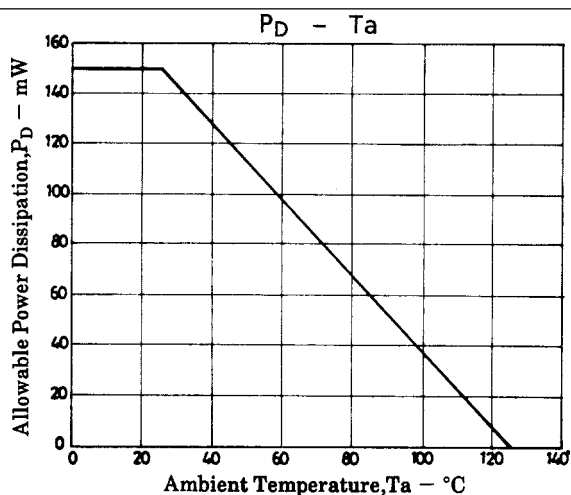
\* : The 2SK304 is classified by  $I_{DSS}$  as follows : (unit : mA)

0.6	C	1.5	1.2	D	3.0	2.5	E	6.0	5.0	F	12.0
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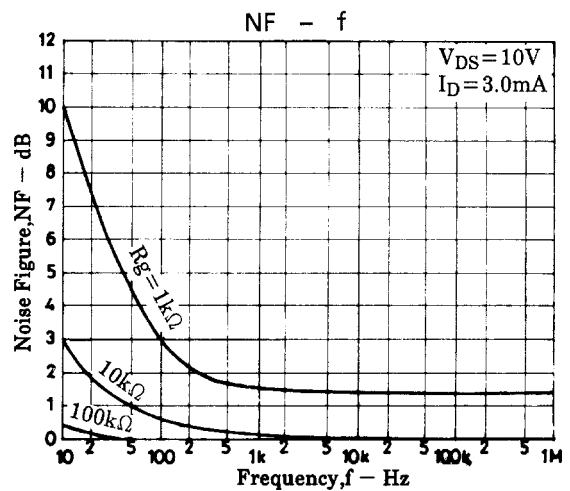
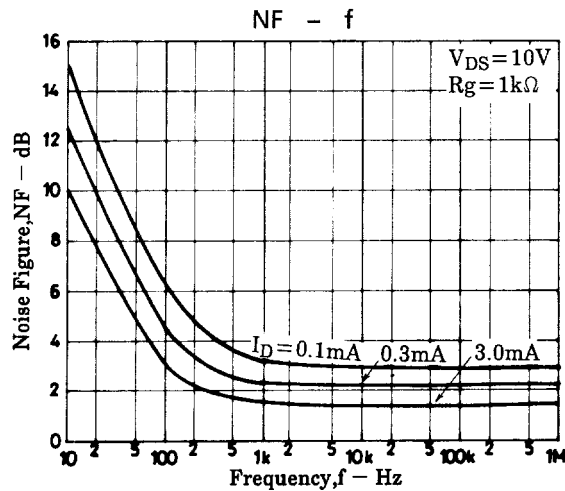
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# 2SK304



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