

SANYO

No.850E

2SK304

N-Channel Junction Silicon FET

Low-Frequency Amp Applications**Applications**

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

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

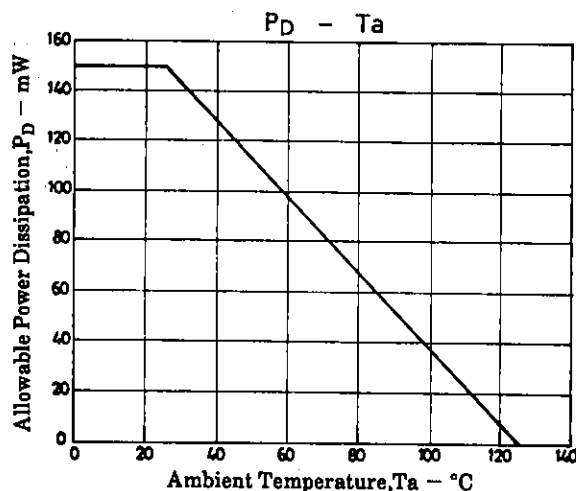
			unit
Drain-to-Source Voltage	V_{DS}	30	V
Gate-to-Drain Voltage	V_{GDS}	-30	V
Gate Current	I_G	10	mA
Drain Current	I_D	20	mA
Allowable Power Dissipation	P_D	150	mW
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

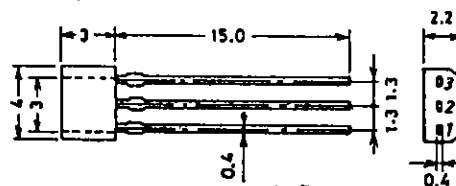
			min	typ	max	unit
G-D Breakdown Voltage	$V_{(BR)GDS}$	$I_G = -10\mu\text{A}$	-30			V
Gate Cutoff Current	I_{GSS}	$V_{GS} = -20\text{V}$			-1.0	nA
Drain Current	I_{DSS}^*	$V_{DS} = 10\text{V}, V_{GS} = 0$	0.6*		12.0*	mA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 10\text{V}, I_D = 1\mu\text{A}$		-1	-4	V
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS} = 10\text{V}, V_{GS} = 0, f = 1\text{kHz}$	2.5	6.0		mS
Input Capacitance	C_{iss}	$V_{DS} = 10\text{V}, V_{GS} = 0, f = 1\text{MHz}$		5		pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS} = 10\text{V}, V_{GS} = 0, f = 1\text{MHz}$		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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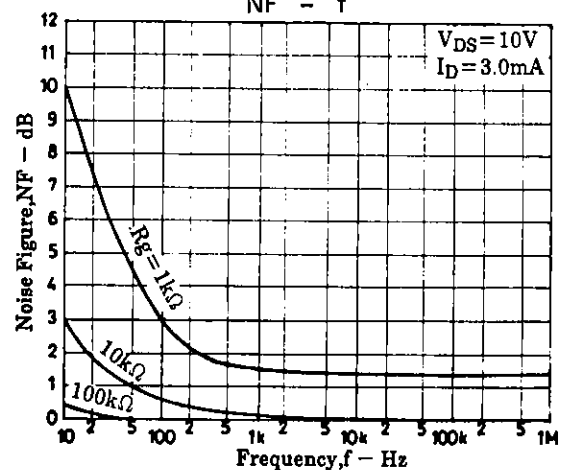
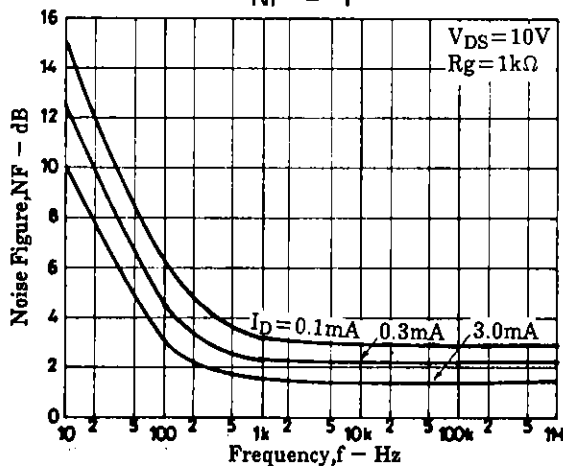
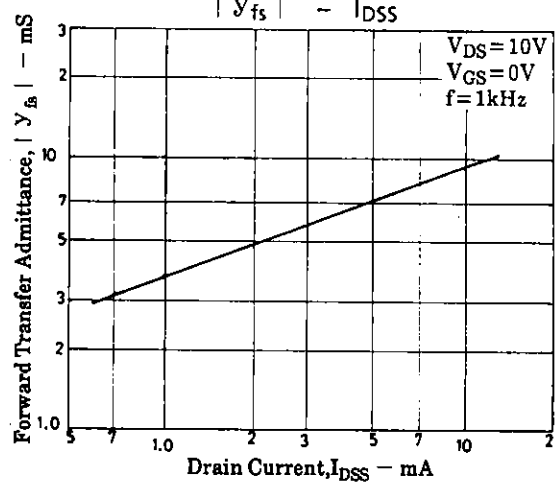
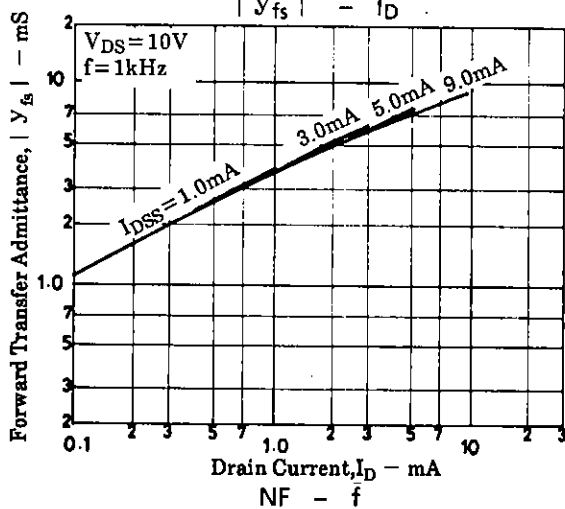
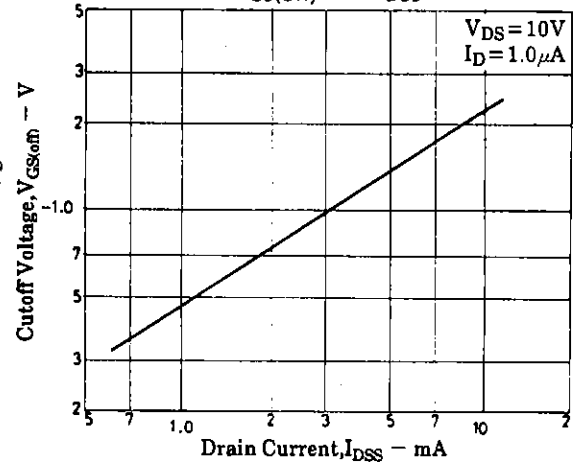
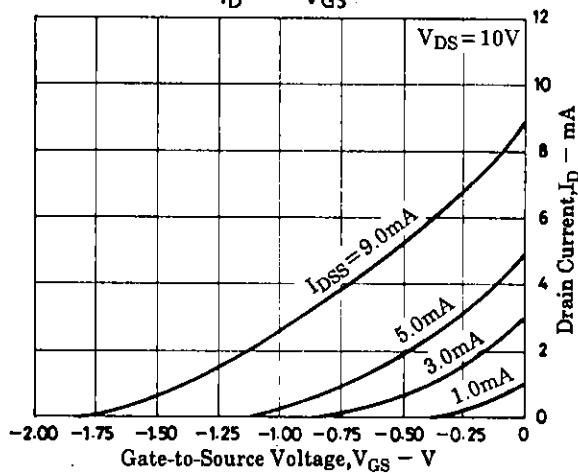
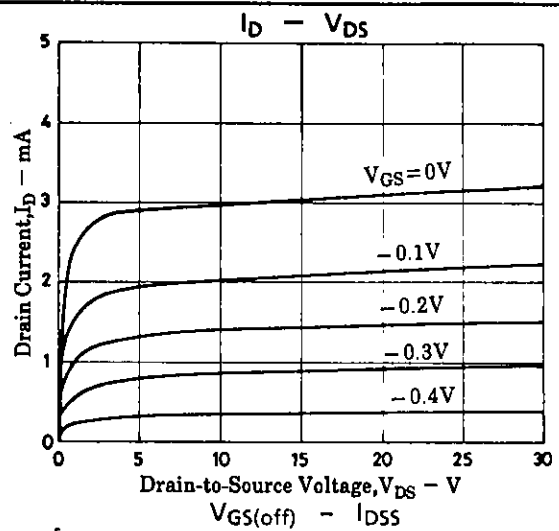
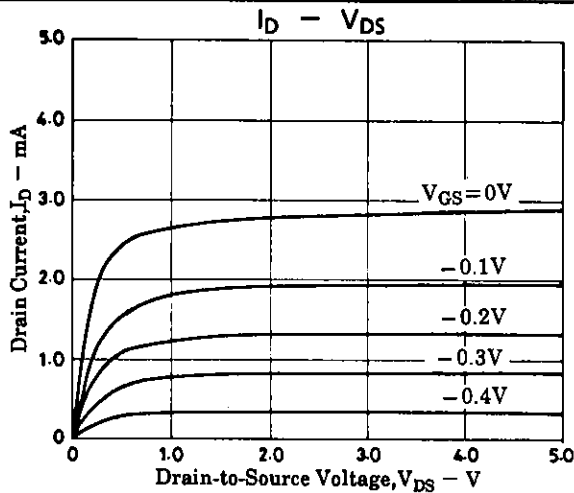
Package Dimensions 2034A
(unit : mm)



1: Source
2: Gate
3: Drain

SANYO: SPA

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