

<b>SANYO</b>	No.2841	<b>2SK932</b>
		N-Channel Junction Silicon FET High-Frequency Low-Noise Amp Applications

**Applications**

- AM tuner RF amp, low-noise amp

**Features**

- Adoption of FBET process
- Large  $|y_{fs}|$
- Small  $c_{iss}$
- Very low noise figure
- Very small-sized package permitting 2SK932-applied sets to be made smaller and slimmer

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

			unit
Drain to Source Voltage	$V_{DSX}$	15	V
Gate to Drain Voltage	$V_{GDS}$	-15	V
Gate Current	$I_G$	10	mA
Drain Current	$I_D$	50	mA
Allowable Power Dissipation	$P_D$	200	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

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

			min	typ	max	unit
Gate to Drain Breakdown Voltage	$V_{(BR)GDS}$	$I_G = -10\mu\text{A}, V_{DS} = 0\text{V}$	-15			V
Gate Cutoff Current	$I_{GSS}$	$V_{GS} = -10\text{V}, V_{DS} = 0\text{V}$			-1.0	nA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 5\text{V}, I_D = 100\mu\text{A}$	-0.2	-0.6	-1.4	V
Drain Current	$I_{DSS}$	$V_{DS} = 5\text{V}, V_{GS} = 0\text{V}$	$\approx 5.0$		$\approx 24.0$	mA
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = 5\text{V}, V_{GS} = 0\text{V}, f = 1\text{kHz}$	25	50		mS
Input Capacitance	$c_{iss}$	$V_{DS} = 5\text{V}, V_{GS} = 0\text{V}, f = 1\text{MHz}$		10		pF
Reverse Transfer Capacitance	$c_{rss}$	$V_{DS} = 5\text{V}, V_{GS} = 0\text{V}, f = 1\text{MHz}$		3.0		pF
Noise Figure	NF	$V_{DS} = 5\text{V}, R_g = 1\text{k}\Omega, I_D = 1\text{mA}, f = 1\text{kHz}$	1.5			dB

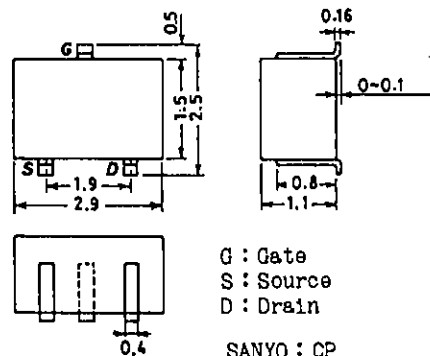
※ : The 2SK932 is classified by  $I_{DSS}$  as follows (unit : mA) :

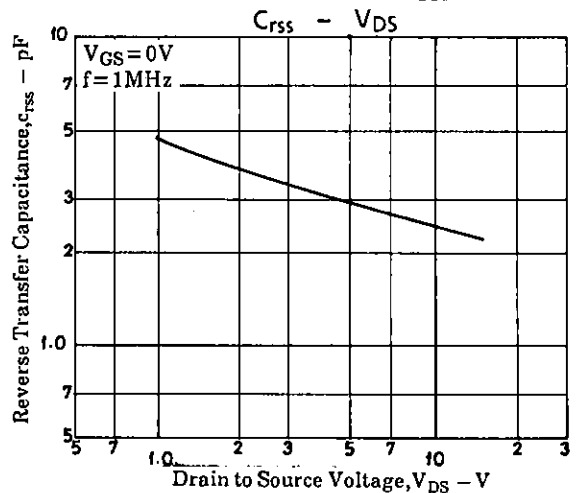
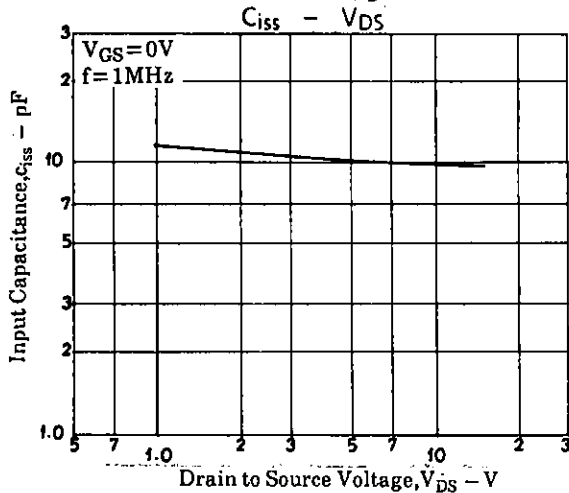
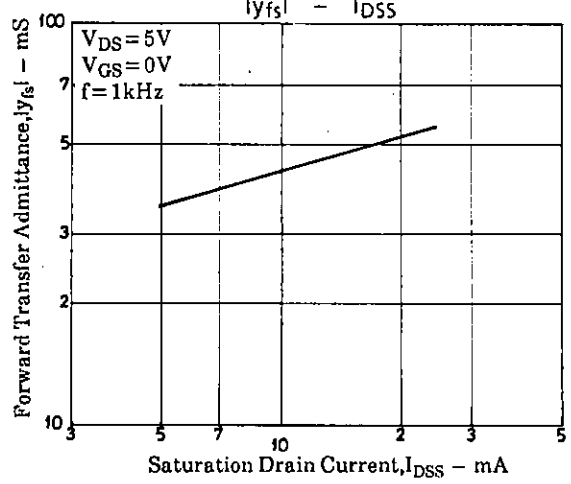
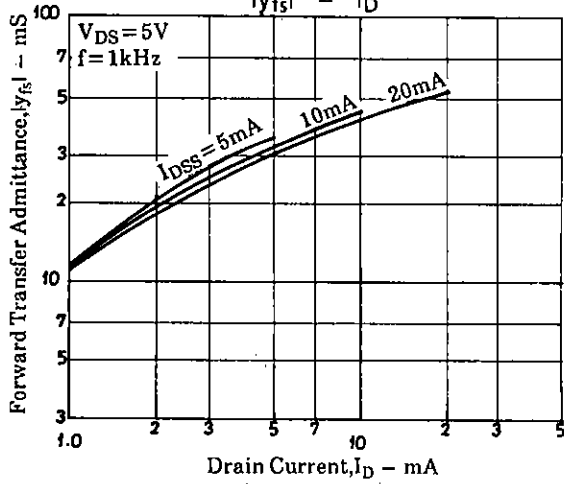
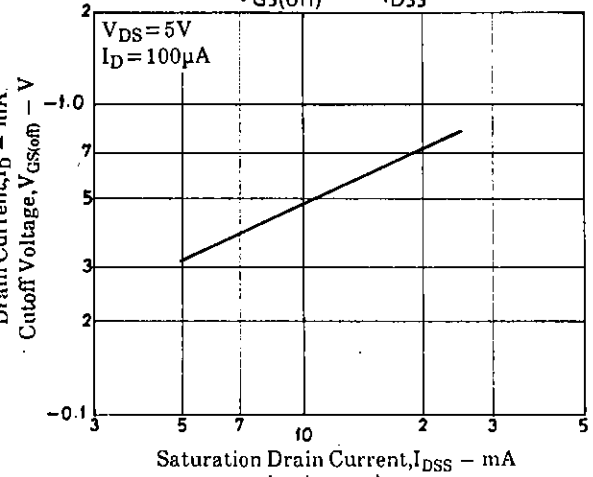
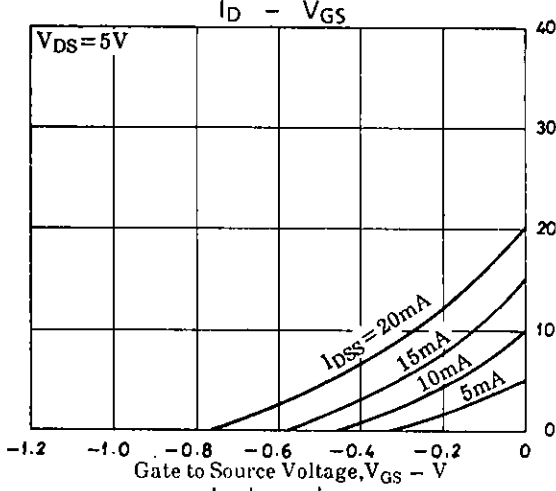
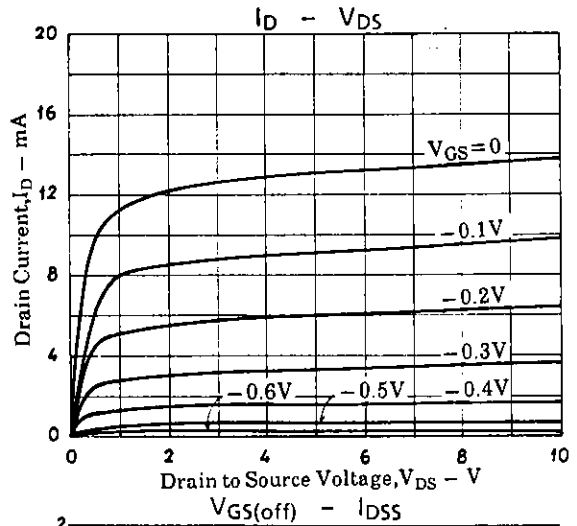
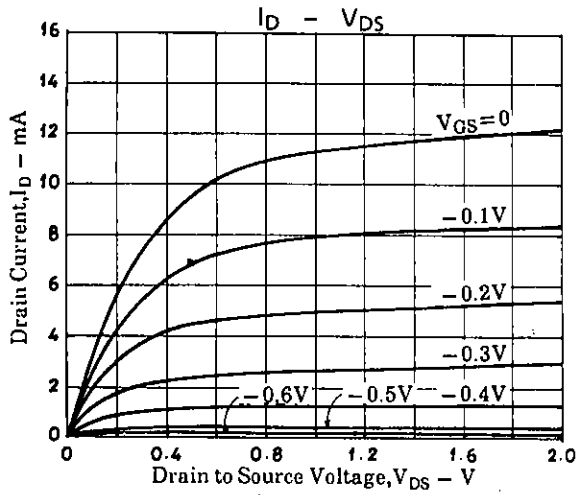
5.0	21	8.5	7.3	22	12.0	10.0	23	17.0	14.5	24	24.0
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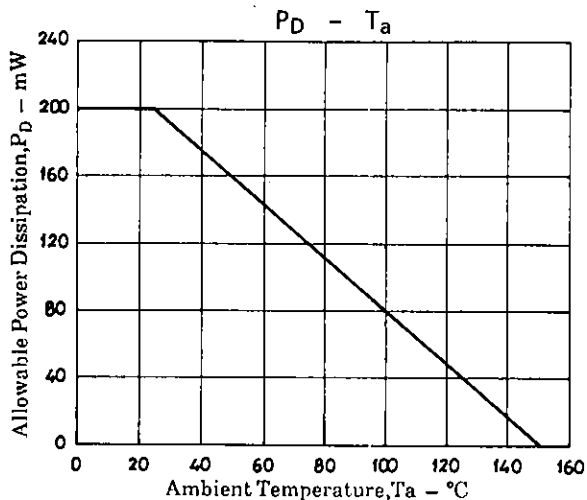
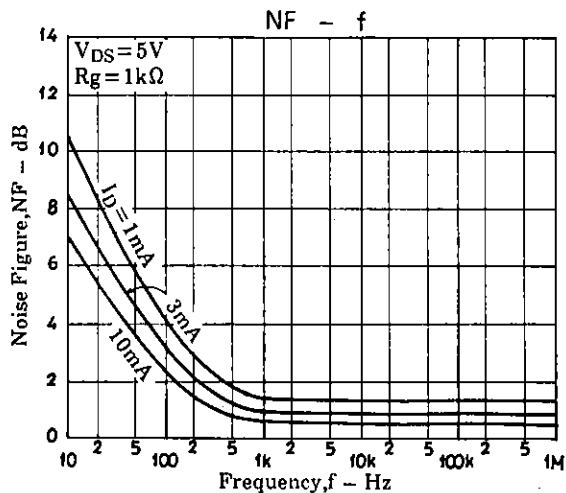
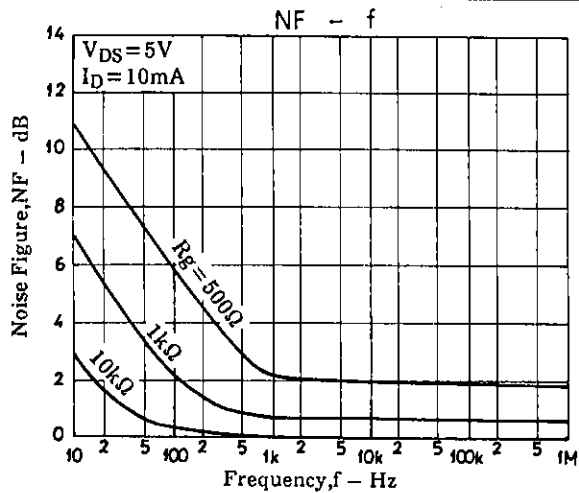
(Note) Marking : E

$I_{DSS}$  rank : 21,22,23,24

**Package Dimensions 2050**  
(unit : mm)







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