

<b>SANYO</b>	No.2543	<b>2SK715</b>
		N-Channel Junction Silicon FET

**AM Tuner, RF Amp Applications**

**Applications**

- . AM tuner RF amp, low-noise amp
- . HF low-noise amp

**Features**

- . Adoption of FBET process
- . Large  $|Y_{fs}|$
- . Small  $c_{iss}$
- . Very low noise figure

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

Drain to Source Voltage	$V_{DSS}$	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	$P_D$	300	mW
Junction Temperature	$T_j$	125	°C
Storage Temperature	$T_{stg}$	-55 to +125	°C

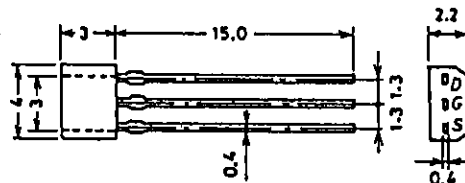
**Electrical Characteristics at Ta=25°C**

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

\*: The 2SK715 is classified by  $I_{DSS}$  as follows: (unit: mA)

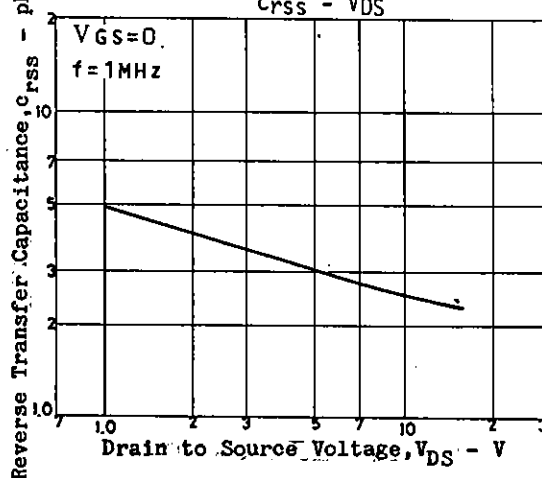
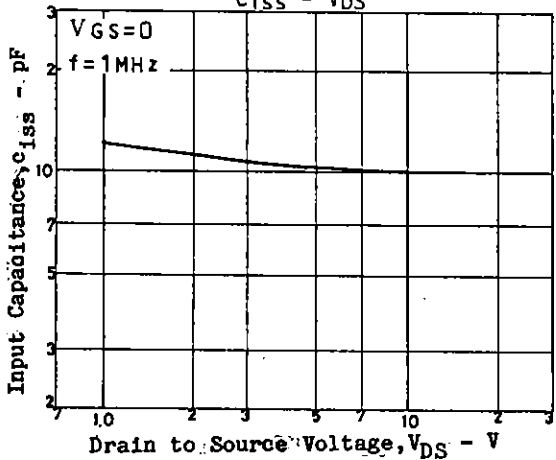
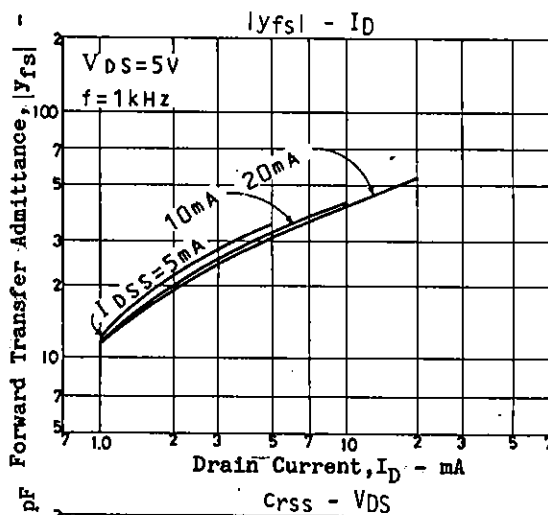
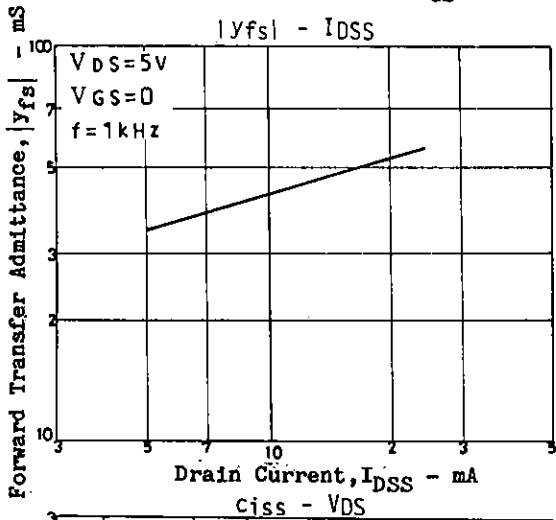
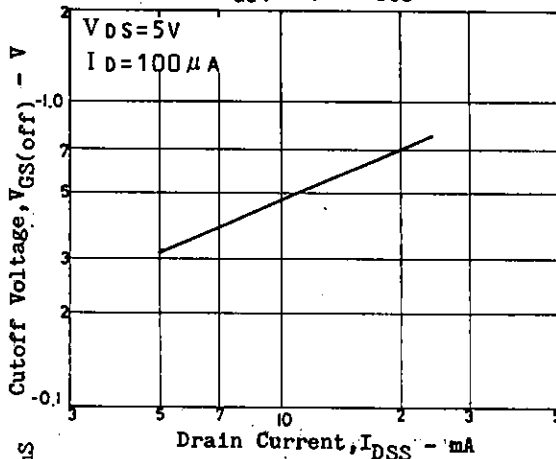
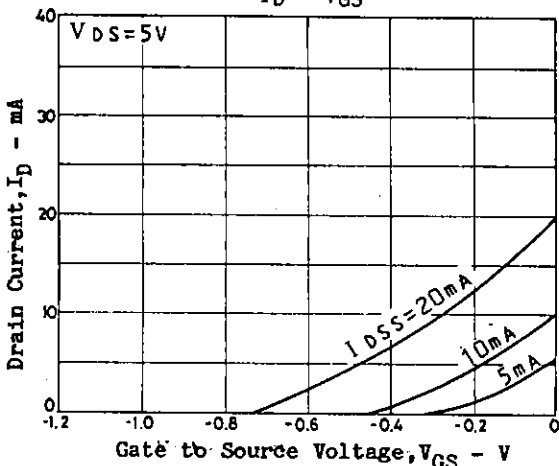
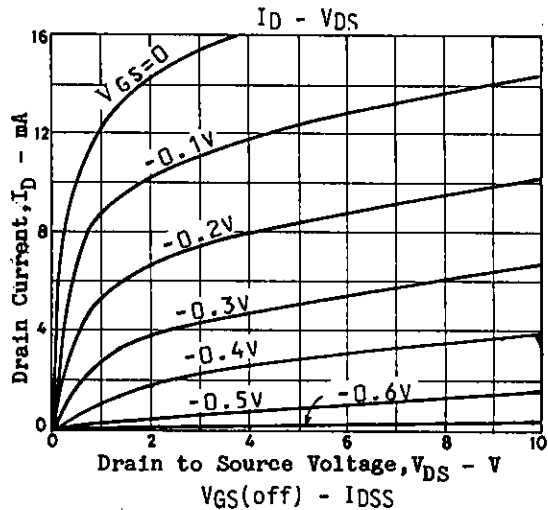
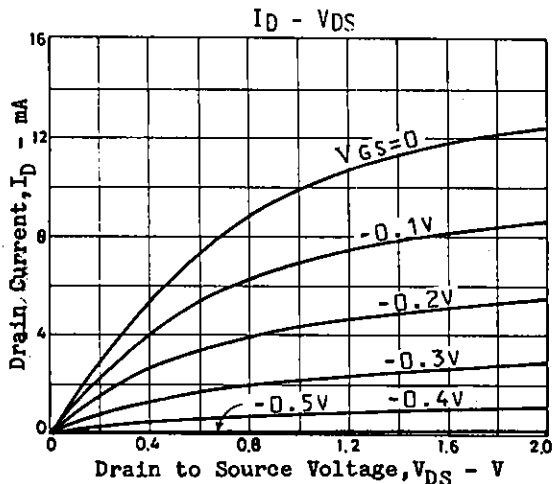
5.0	T	8.5	7.3	U	12.0	10.0	V	17.0	14.5	W	24.0
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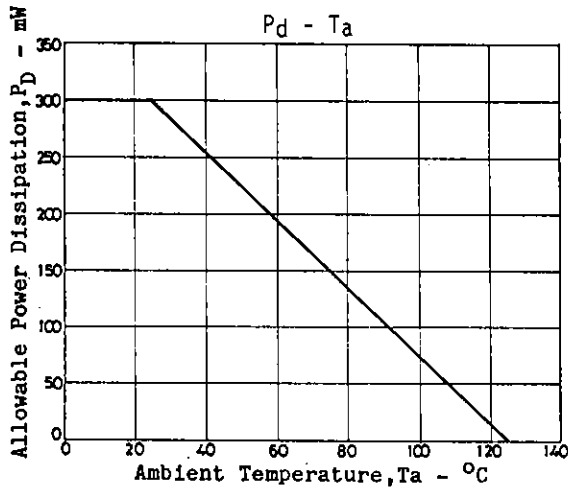
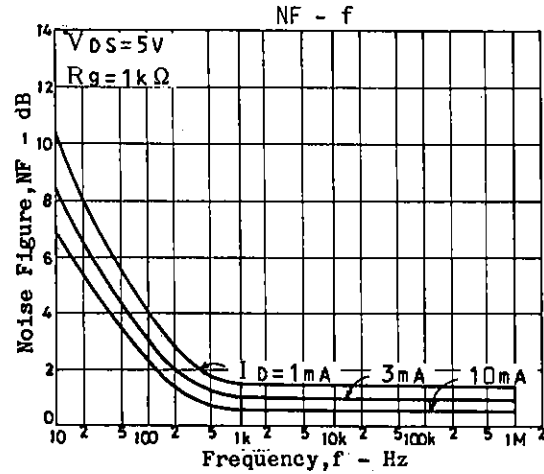
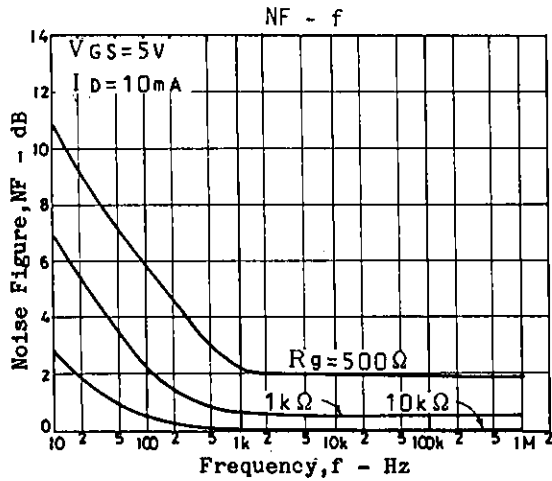
**Package Dimensions 2034**  
(unit: mm)



D: Drain  
G: Gate  
S: Source

SANYO: SPA





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