

<b>SANYO</b>	No.2719	<b>2SK1067</b>
	N-Channel MOS Silicon FET	
FM Tuner, VHF-Band Amp Applications		

**Features**

- Low noise NF=1.8dB typ(f=100MHz)
- High power gain PG=27dB typ(f=100MHz)
- Small reverse transfer capacitance  $c_{rss} = 0.035\text{pF}$  ( $V_{DS} = 10\text{V}, f = 1\text{MHz}$ )
- Very small-sized package(MCP) permitting 2SK1067-applied sets to be made smaller and slimmer

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

			unit
Drain to Source Voltage	$V_{DS}$	16	V
Gate to Source Voltage	$V_{GS}$	$\pm 5$	V
Drain Current	$I_D$	30	mA
Allowable Power Dissipation	$P_D$	150	mW
Channel Temperature	$T_{ch}$	125	°C
Storage Temperature	$T_{stg}$	-55 to +125	°C

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

			min	typ	max	unit
Drain to Source Voltage	$V_{DSX}$	$V_{GS} = -4\text{V}, I_D = 100\mu\text{A}$	16			V
Gate Cutoff Current	$I_{GSS}$	$V_{DS} = 0\text{V}, V_{GS} = \pm 5\text{V}$			10	nA
Drain Current	$I_{DSS}$	$V_{DS} = 10\text{V}, V_{GS} = 0$	※1.2		※12.0	mA
Gate to Source Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 10\text{V}, I_D = 100\mu\text{A}$			-2.5	V
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = 10\text{V}, V_{GS} = 0, f = 1\text{kHz}$		11		mS
Input Capacitance	$c_{iss}$	$V_{DS} = 10\text{V}, V_{GS} = 0, f = 1\text{MHz}$		2.3		pF
Reverse Transfer Capacitance	$c_{rss}$	$V_{DS} = 10\text{V}, V_{GS} = 0, f = 1\text{MHz}$		0.035		pF
Power Gain	PG	$V_{DS} = 10\text{V}, V_{GS} = 0, f = 100\text{MHz}$		27		dB
Noise Figure	NF	See specified Test Circuit. $V_{DS} = 10\text{V}, V_{GS} = 0, f = 100\text{MHz}$		1.8	3.0	dB

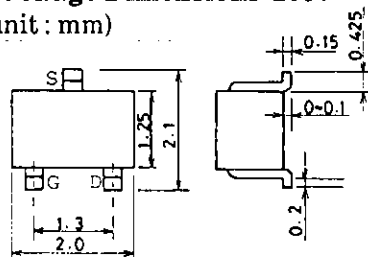
※ : The 2SK1067 is classified by  $I_{DSS}$  as follows (unit : mA) :

1.2	3	3.0	2.5	4	6.0	5.0	5	12.0
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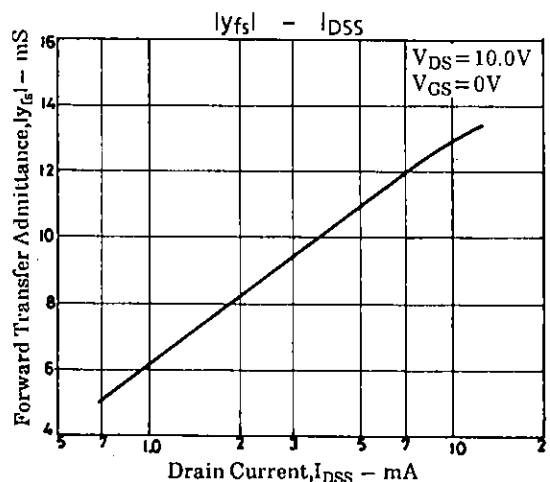
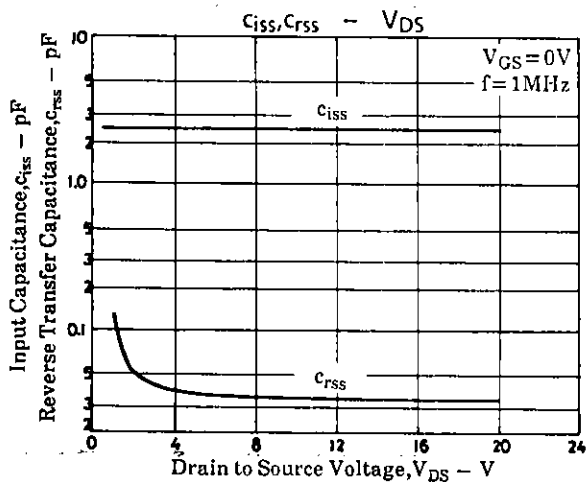
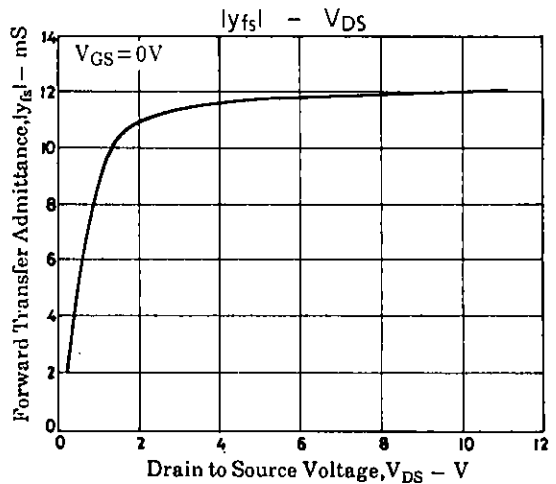
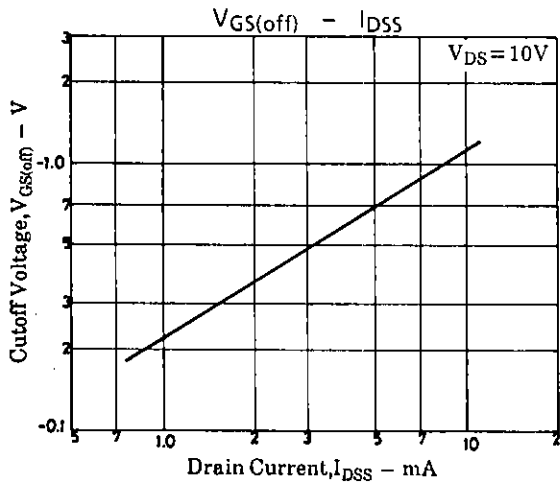
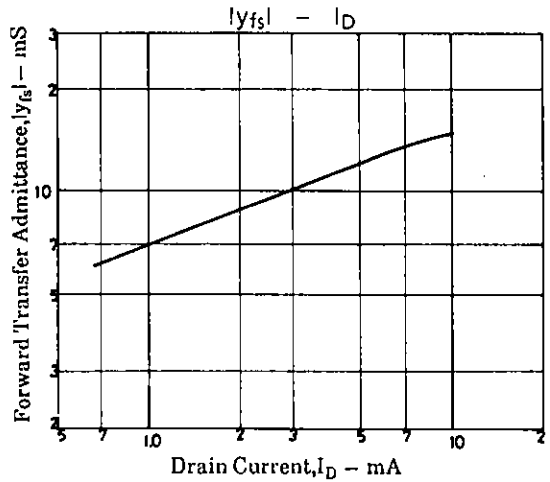
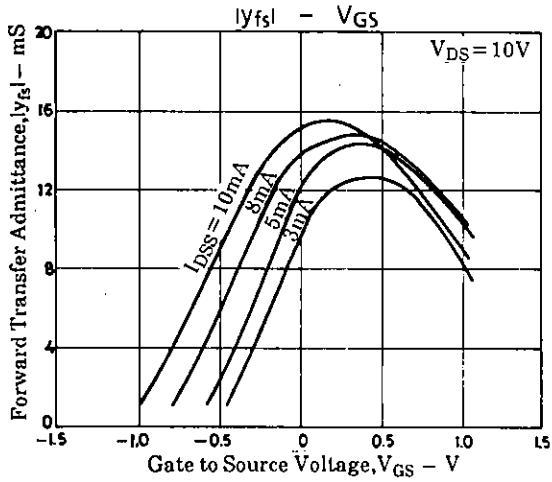
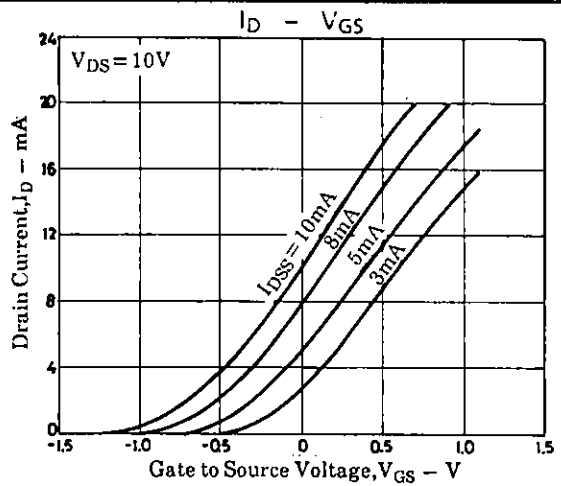
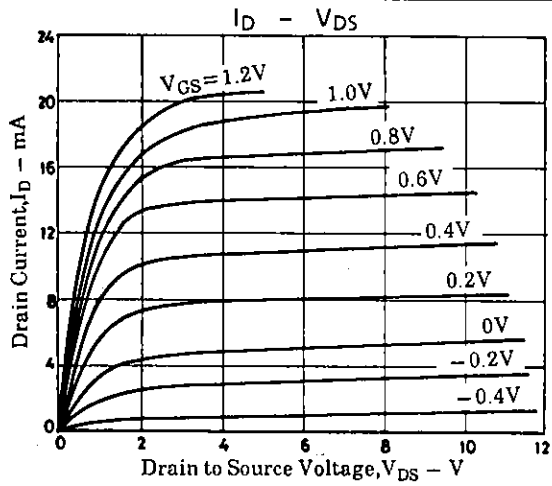
(Note) Marking : CJ  
 $I_{DSS}$  rank : 3,4,5

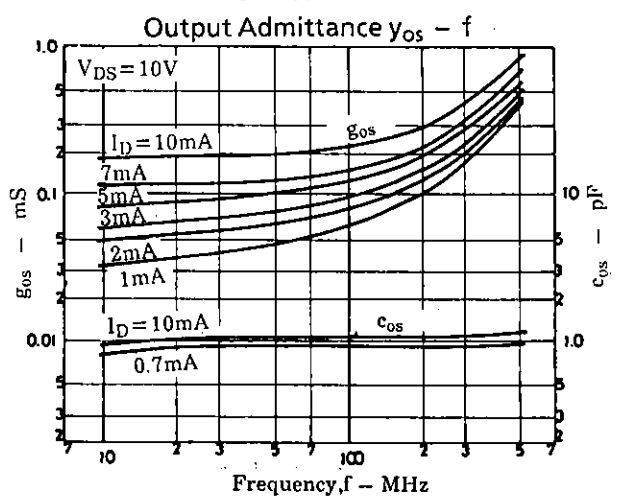
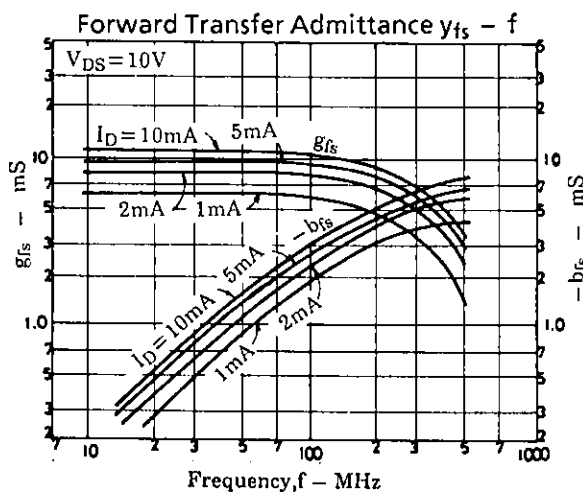
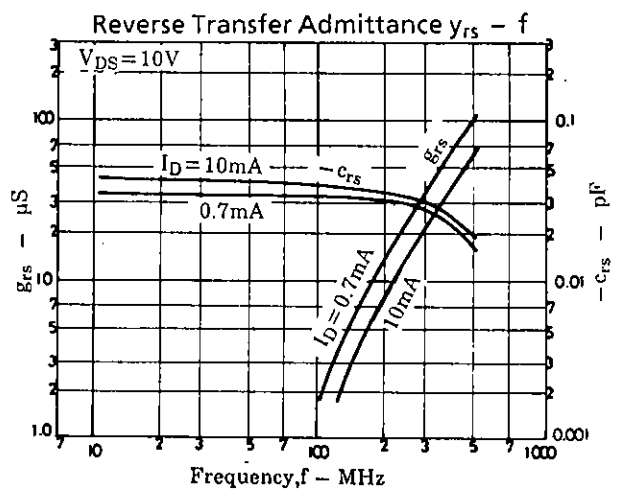
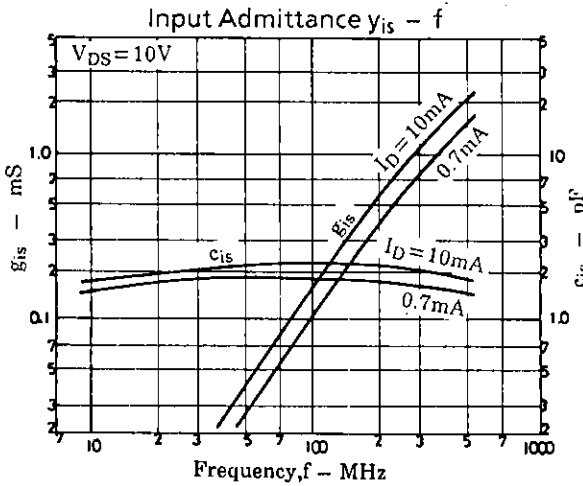
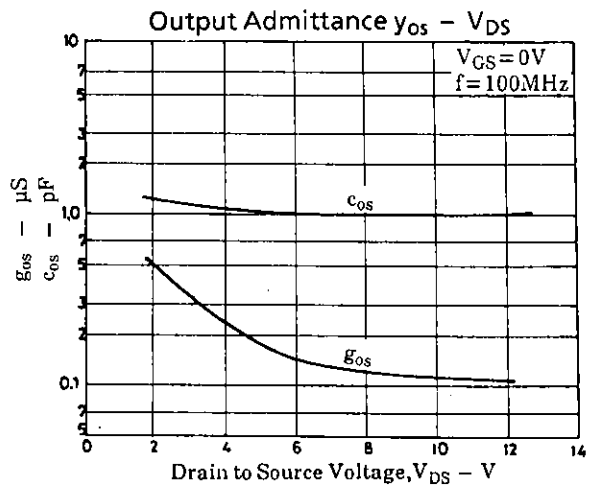
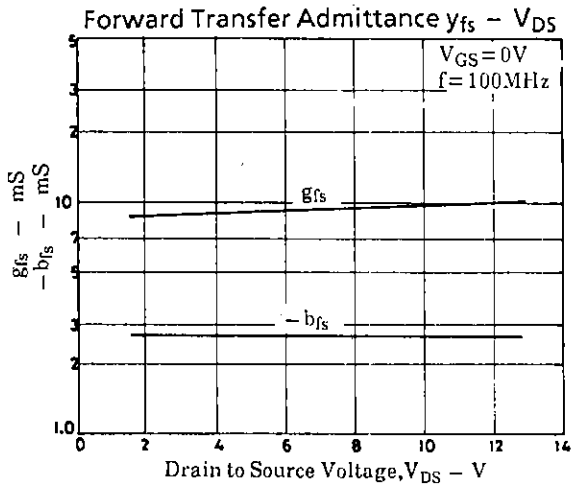
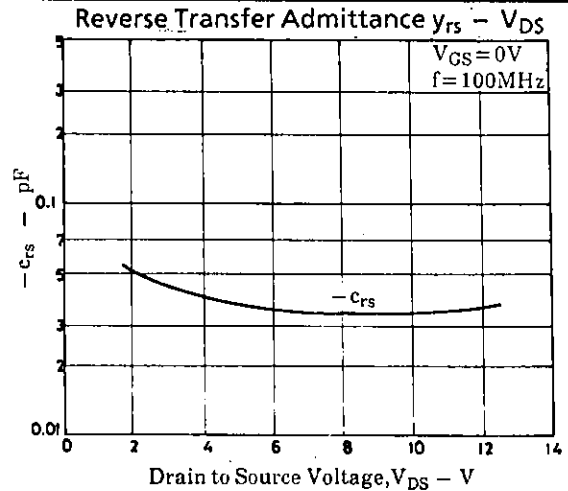
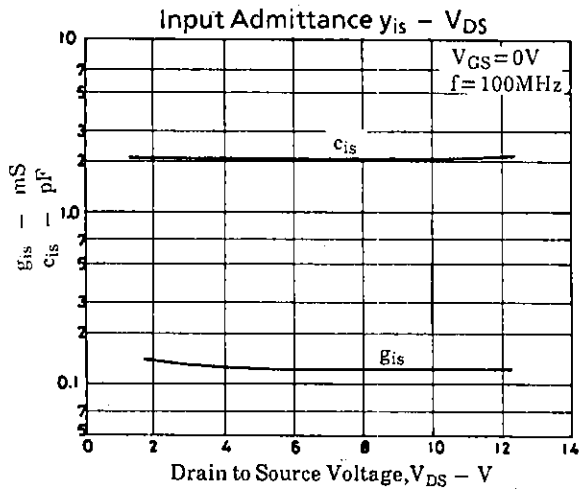
**Package Dimensions 2057**

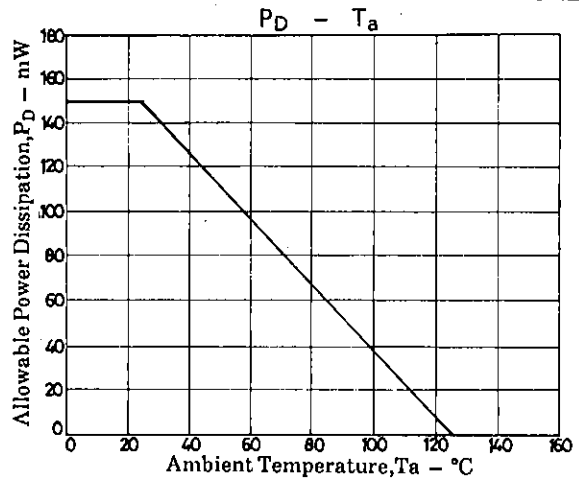
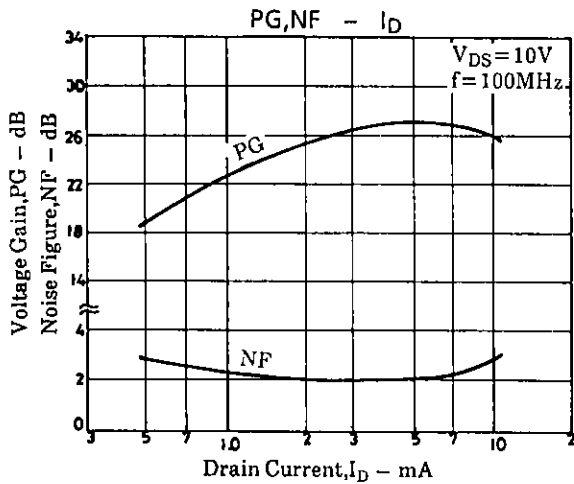
(unit : mm)



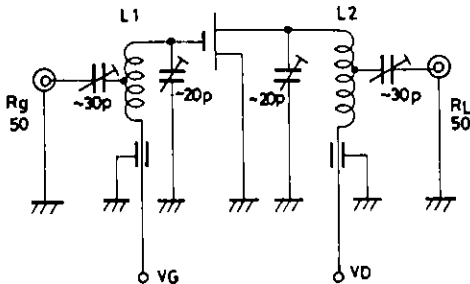
SANYO: MCP  
 G: Gate  
 S: Source  
 D: Drain







PG,NF Test Circuit



L1 : 1.0mm $\varnothing$  plated wire, 10mm $\varnothing$  6T, tap : 3T from H side  
L2 : 1.0mm $\varnothing$  plated wire, 10mm $\varnothing$  7T, tap : 4T from H side

Unit (Resistance :  $\Omega$ , Capacitance : F)

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