

SANYO	No.1419B	2SK443
	N-Channel Junction Silicon Field-Effect Transistor	
Video Camera First-Stage Applications		

Features

- Large $|Y_{fs}|$.
- Small Ciss.
- Very low noise figure.
- Very small-sized package permitting 2SK443-applied sets to be small-sized.

Absolute Maximum Ratings at Ta = 25°C

			unit
Drain-to-Source Voltage	V_{DS}	15	V
Gate-to-Drain Voltage	V_{GDS}	-15	V
Gate Current	I_G	10	mA
Drain Current	I_D	50	mA
Power Dissipation	P_D	200	mW
Junction Temperature	T_j	125	°C
Storage Temperature	T_{stg}	-55 to +125	°C

Electrical Characteristics at Ta = 25°C

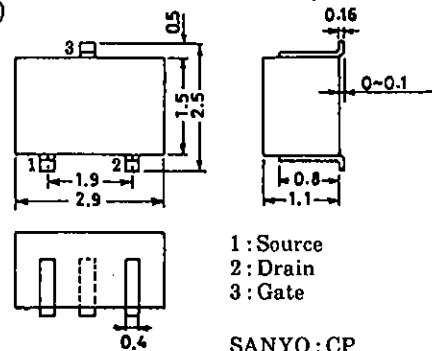
			min	typ	max	unit
Gate-to-Drain Breakdown Voltage	$V_{(BR)GDS}$	$I_D = 10\mu A, V_{DS} = 0$	-15			V
Common-Source Cutoff Current	I_{GSS}	$V_{GS} = -10V, V_{DS} = 0$			-1.0	nA
Gate-to-Source Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 5V, I_D = 100\mu A$	-0.9	-2.0		V
Drain Current	I_{DSS}	$V_{DS} = 5V, V_{GS} = 0$	5.0*		38.0*	mA
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS} = 5V, V_{GS} = 0, f = 1kHz$	20	30		mS
Input Capacitance	Ciss	$V_{DS} = 5V, V_{GS} = 0, f = 1MHz$		9.0		pF
Reverse Transfer Capacitance	Crss	$V_{DS} = 5V, V_{GS} = 0, f = 1MHz$		2.8		pF
Noise Figure	NF	$V_{DS} = 5V, R_g = 1k\Omega, I_D = 1mA, f = 1kHz$		1.5		dB

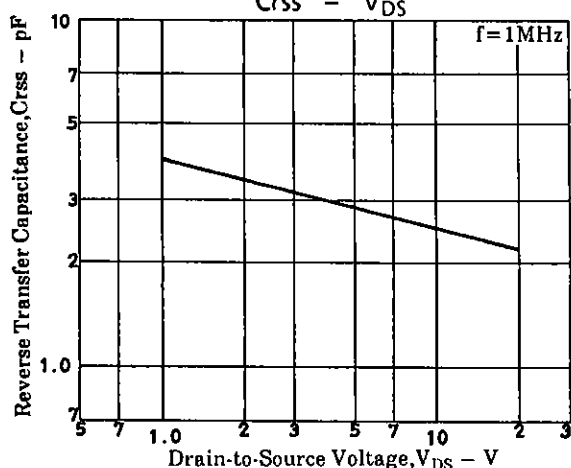
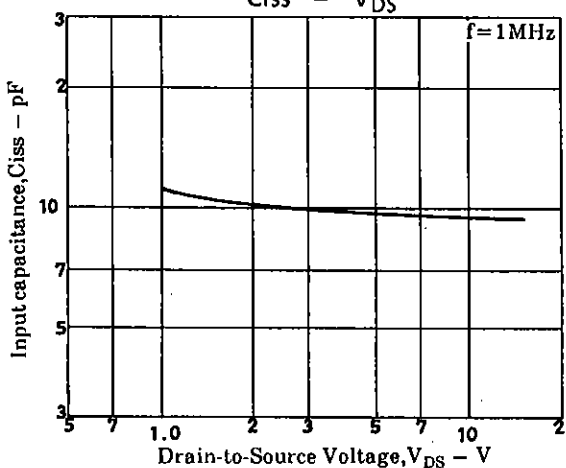
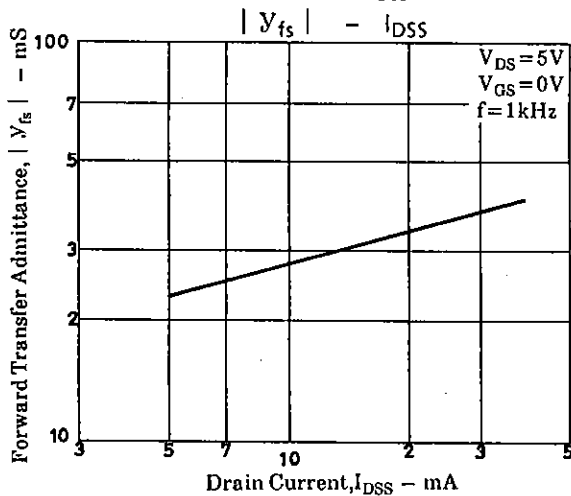
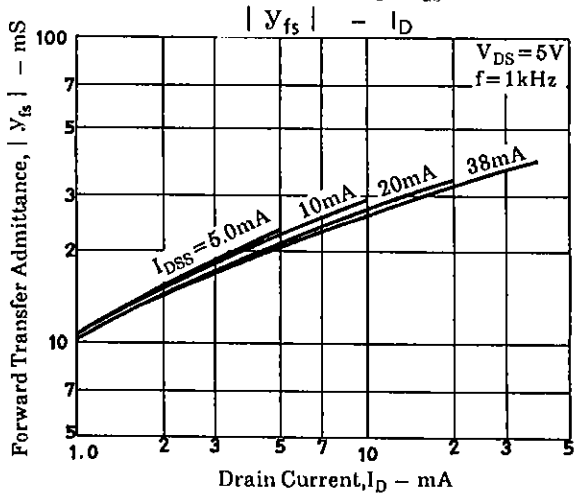
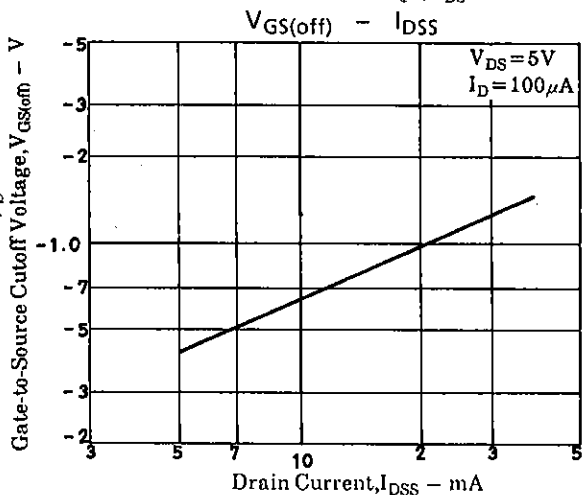
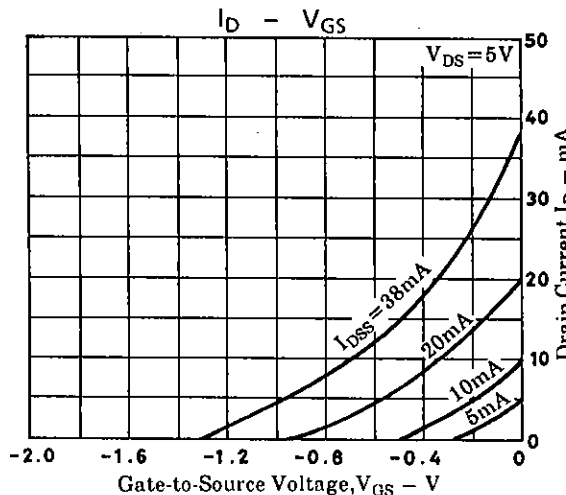
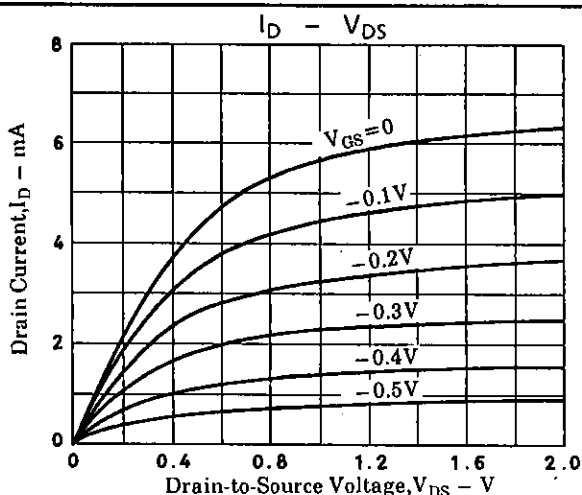
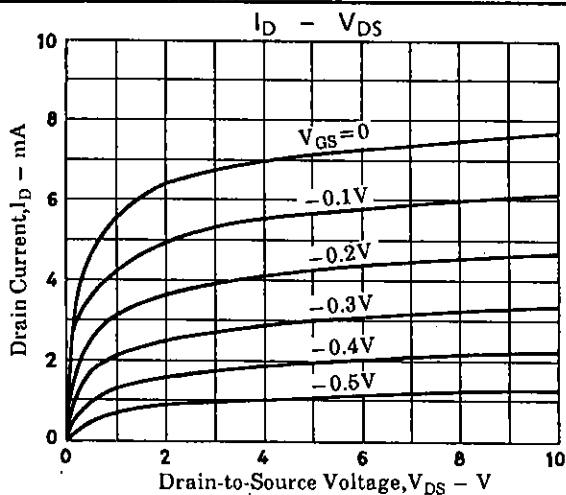
* The 2SK443 is classified by I_{DSS} as follows (unit : mA) :

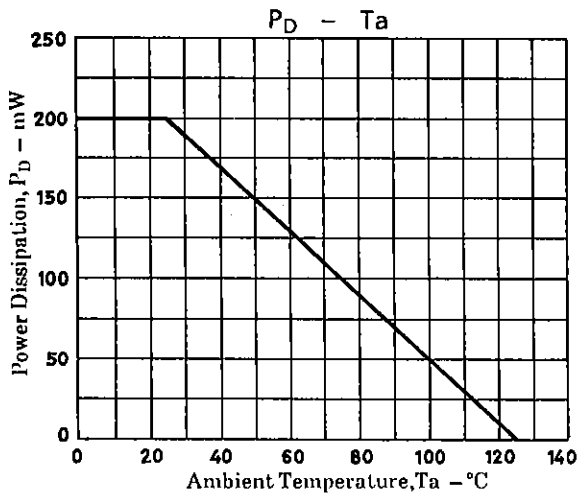
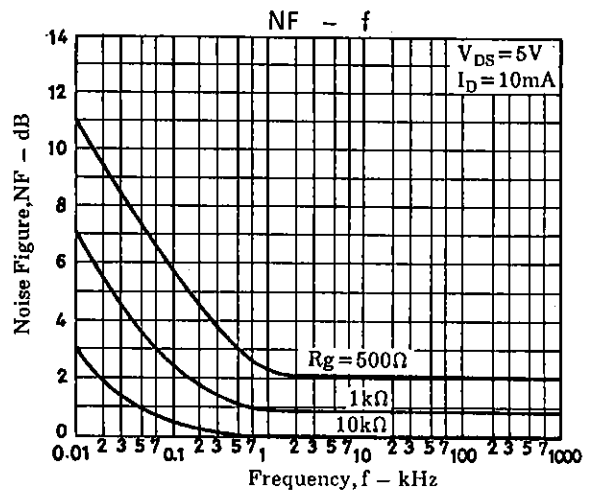
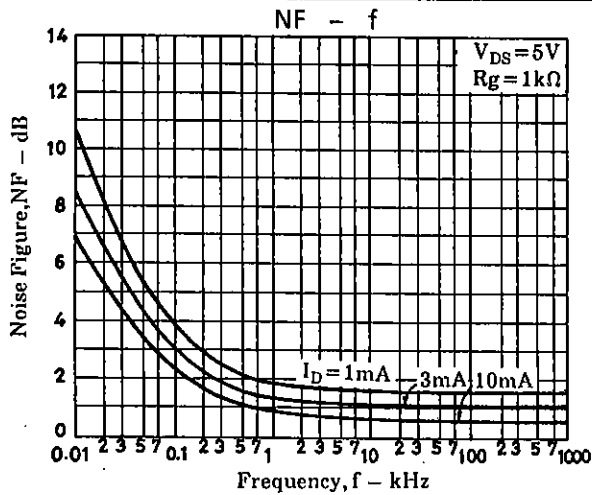
5.0	5	12.0	10.0	6	24.0	16.0	7	38.0
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(Note) Marking : AJ
 I_{DSS} rank : 5, 6, 7

Package Dimensions 2050A
(unit : mm)







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