

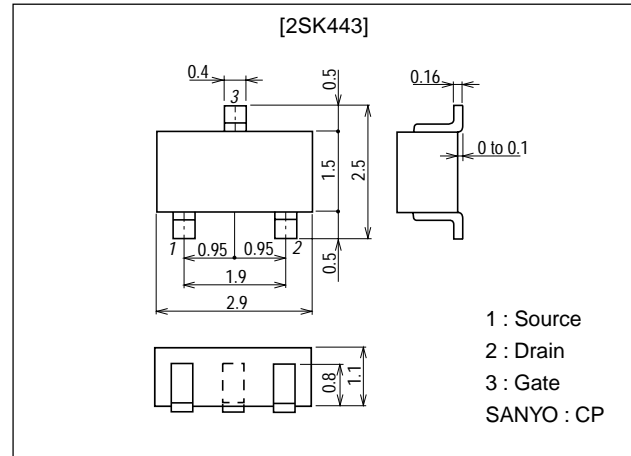
**2SK443****Video Camera First-Stage Applications****Features**

- Large $|y_{fs}|$.
- Small Crss.
- Ultralow noise figure.
- Ultrasmall-sized package permitting 2SK443-applied sets to be small-sized.

Package Dimensions

unit:mm

2050A

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

Parameter	Symbol	Conditions	Ratings	Unit
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		200	mW
Junction Temperature	T_J		125	°C
Storage Temperature	T_{stg}		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	$V_{(BR)GDS}$	$I_D=10\mu A, V_{DS}=0$	-15			V
Gate-to-Source Leakage Current	I_{GSS}	$V_{GS}=-10V, V_{DS}=0$			-1.0	nA
Zero-Gate Voltage Drain Current	I_{DSS}^*	$V_{DS}=5V, V_{GS}=0$	5.0*		38.0*	mA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS}=5V, I_D=100\mu A$		-0.9	-2.0	V
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) :

(Note) Marking : AJ

I_{DSS} rank : 5, 6, 7

5.0	5	12.0	10.0	6	24.0	16.0	7	38.0
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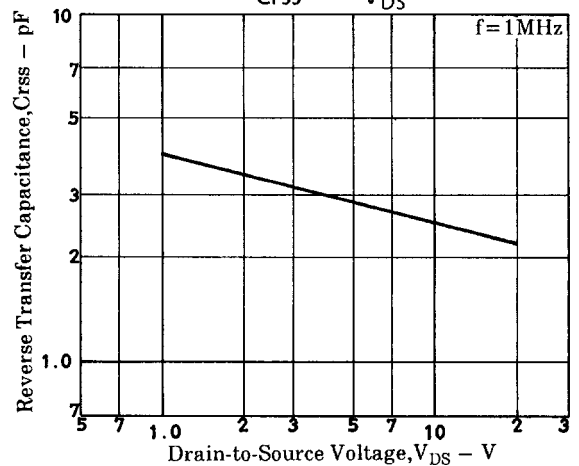
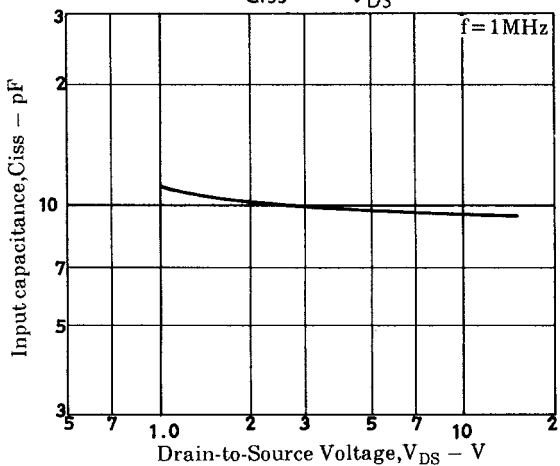
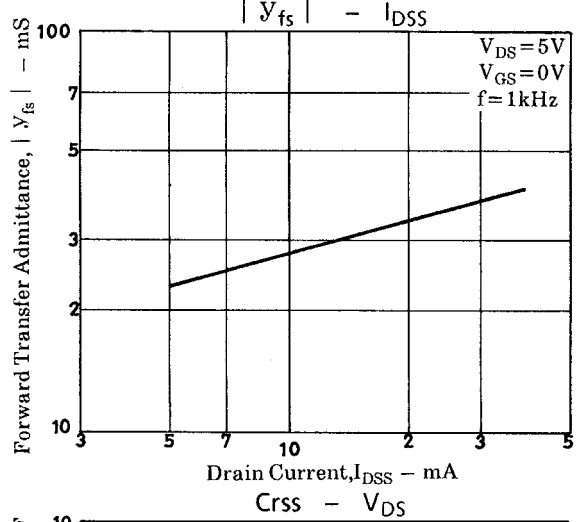
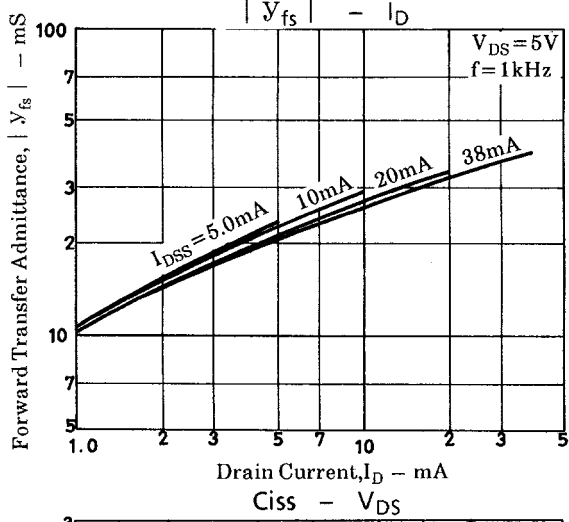
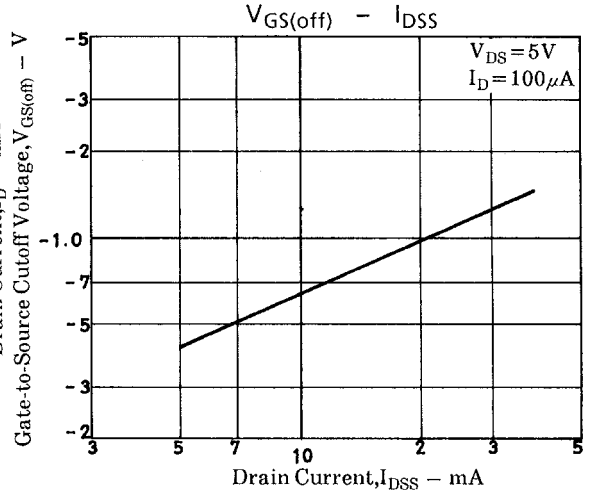
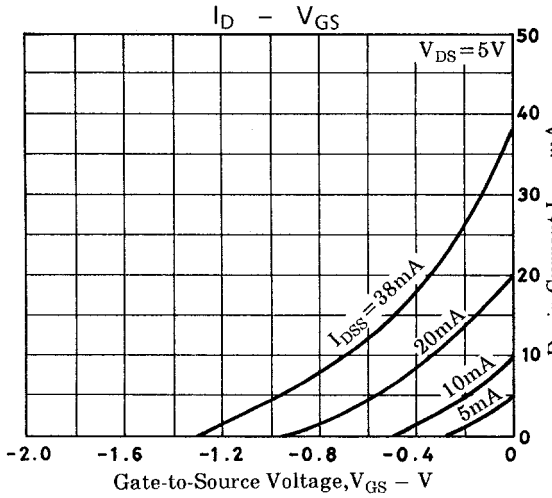
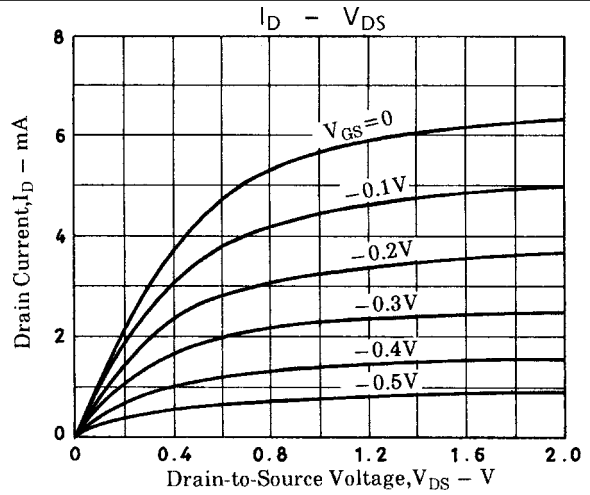
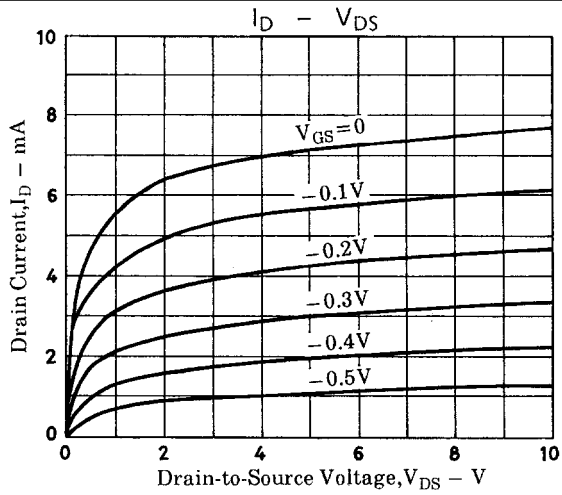
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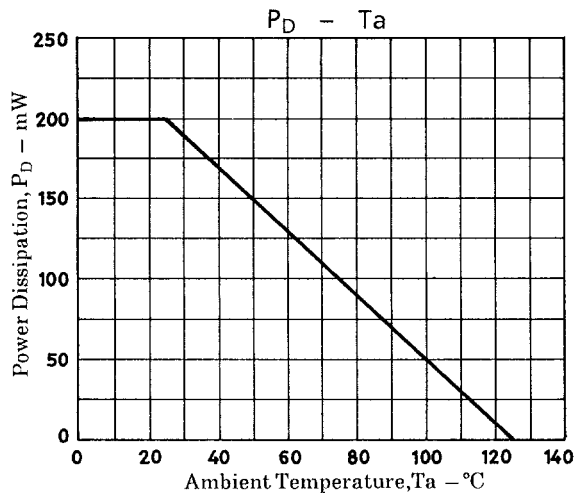
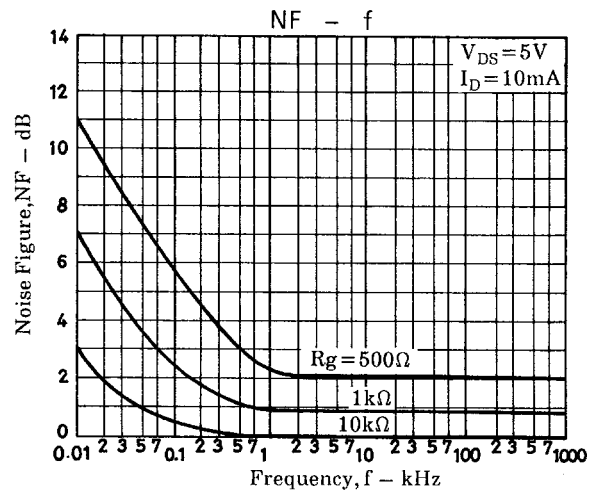
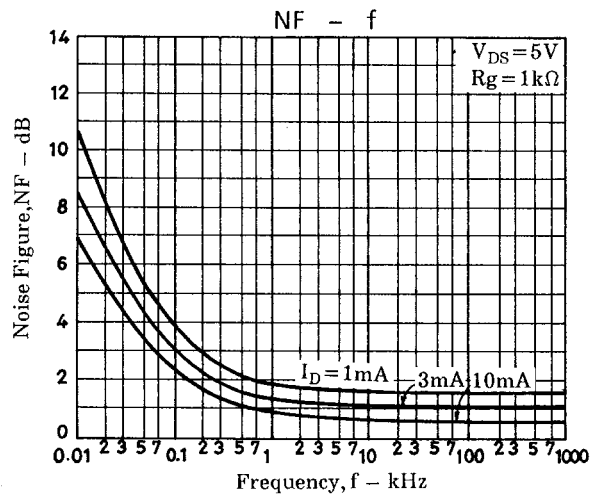
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2SK443



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