SANYO

No.1419B

2SK443

N-Channel Junction Silicon Field-Effect Transistor

Video Camera First-Stage Applications

## **Features**

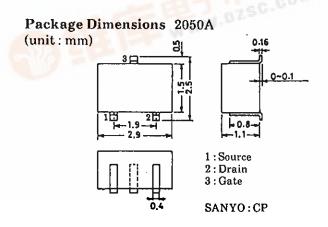
- · Large  $| y_{fs} |$ .
- · Small Ciss.
- · Very low noise figure.
- · Very small-sized package permitting 2SK443-applied sets to be small-sized.

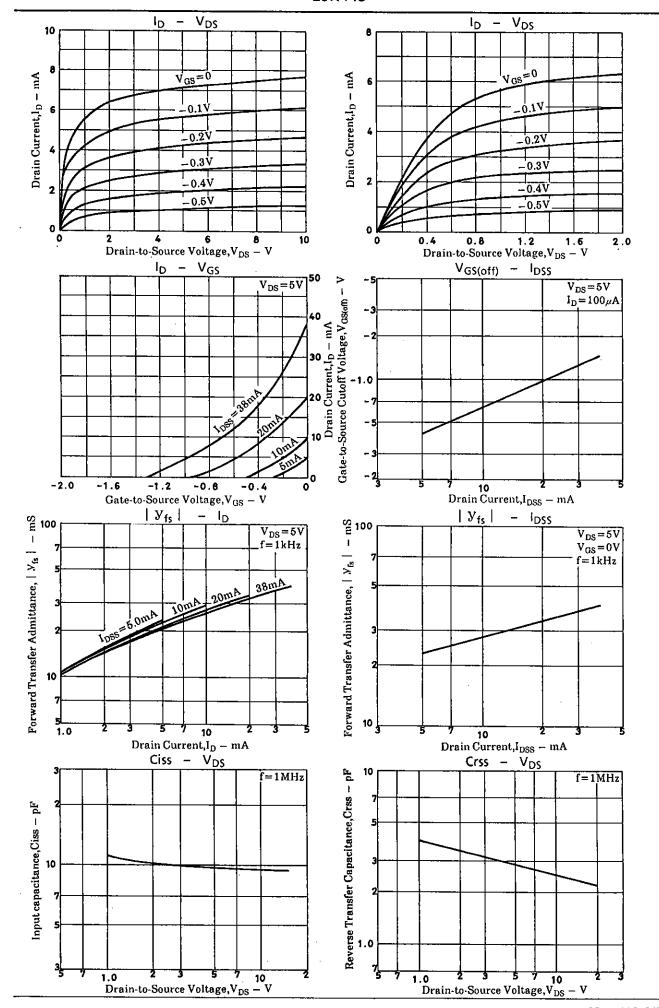
Absolute Maximum Ratings at Ta = 25°C				unit	
Drain-to-Source Voltage	$V_{DSS}$		15	V	
Gate-to-Drain Voltage	$V_{GDS}$		-15	V	
Gate Current	$I_G$		10	mA	
Drain Current	$I_{\mathbf{D}}$		50	mA	
Power Dissipation	$P_{D}$		200	mW	
Junction Temperature	Tj		125	°C	
Storage Temperature	Tstg		-55  to  + 125	$^{\circ}\mathrm{C}$	
Electrical Characteristics at Ta=	25°C		min typ	max	unit
Gate-to-Drain	V <sub>(BR)GDS</sub>	$I_{D} = 10 \mu A, V_{DS} = 0$	-15		V
Breakdown Voltage	A750	Co.			
Common-Source Gate	IGSS	$V_{GS} = -10V, V_{DS} = 0$		-1.0	nΑ
Cutoff Current					
Gate-to-Source Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 5V, I_D = 100 \mu A$	-0.9	-2.0	V
Dr <mark>ain C</mark> urrent	$I_{DSS}$	$V_{DS} = 5V, V_{GS} = 0$	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	$V_{DS} = 5V_{,Rg} = 1k\Omega_{,}$	1.5		dB
		$I_D=1mA$ , $f=1kHz$			

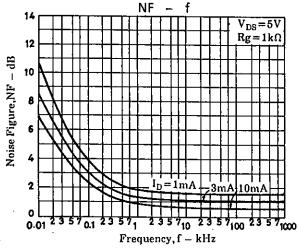
\* The 2SK443 is classified by Ipss as follows (unit: mA):

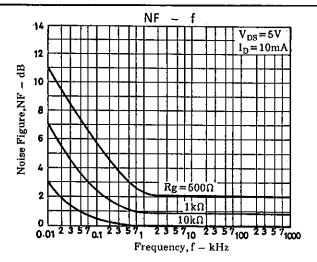
5.0 **5 12.0 10.0** 6 24.0 16.0 7 38.0

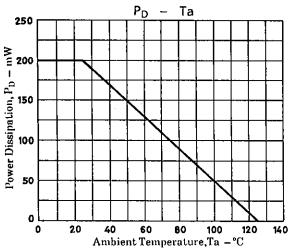
(Note) Marking: AJ IDSS rank: 5, 6, 7











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