

No.1419B

2SK443

N-Channel Junction Silicon Field-Effect Transistor

Video Camera First-Stage Applications

Features

- · Large $| \mathcal{Y}_{fs} |$.
- · 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	$V_{ m DSS}$	15	V
Gate-to-Drain Voltage	$ m 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	$\mathbf{T}_{\mathbf{j}}^{\mathbf{r}}$	125	°C
Storage Temperature	Tstg	-55 to + 125	°C
Electrical Characteristics at	Ta = 25°C	min typ	max unit
Gate-to-Drain	$V_{(BR)GDS} I_D = 10 \mu A, V_{DS} = 0$		V
Breakdown Voltage	(Bit/000 B 107 pa - 7 1 BG 1		•
} a a . a . a	T T7 401711	•	

I_{GSS}	$V_{GS} = -10V, V_{DS} = 0$		-1.0	nA
	. 55			
$V_{GS(off)}$	$V_{DS} = 5V, I_D = 100 \mu A$	-0.9	-2.0	V
I_{DSS}	$V_{DS} = 5V, V_{GS} = 0$	5.0*	38.0%	mΑ
y _{fs}	$V_{DS} = 5V, V_{GS} = 0, f = 1kHz$	20 30		mS
Ciss	$V_{DS} = 5V$, $V_{GS} = 0$, $f = 1MHz$	9.0		рF
Crss	$V_{DS} = 5V, V_{GS} = 0, f = 1MHz$	2.8		pF
NF		1.5		dΒ
	$I_D = 1 \text{ mA}, f = 1 \text{ kHz}$			
	$V_{GS(off)}$ I_{DSS} $\mid \mathcal{Y}_{fs} \mid$ $Ciss$ $Crss$	$\begin{array}{lll} V_{GS(off)} & V_{DS}\!=\!5V, I_{D}\!=\!100\mu\text{A} \\ I_{DSS} & V_{DS}\!=\!5V, V_{GS}\!=\!0 \\ \mid \mathcal{Y}_{fs} \mid & V_{DS}\!=\!5V, V_{GS}\!=\!0, f\!=\!1\text{kHz} \\ \text{Ciss} & V_{DS}\!=\!5V, V_{GS}\!=\!0, f\!=\!1\text{MHz} \\ \text{Crss} & V_{DS}\!=\!5V, V_{GS}\!=\!0, f\!=\!1\text{MHz} \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

 \divideontimes 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

(Note) Marking: AJ l_{DSS} rank: 5, 6, 7

Package Dimensions 2050A

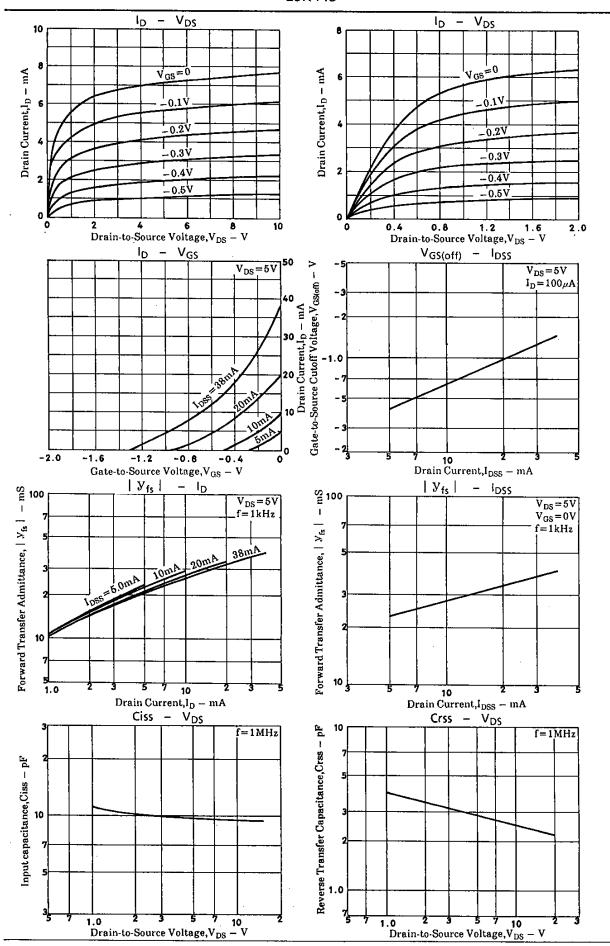
(unit:mm)

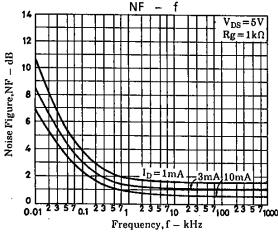
3 1 0.16

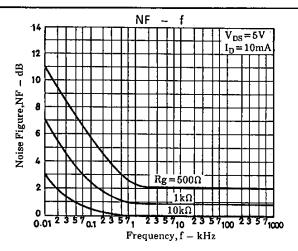
1:Source
2:Drain
3:Gate

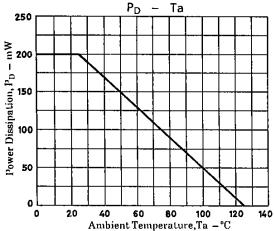
0.4 SANYO:CP

SANYO Electric Co., Ltd. Semiconductor Business Headquarters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN









- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
 - ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
 - ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provide information as of April, 1995. Specifications and information herein are subject to change without notice.