

SANYO	No.1439B	2SK445
		N-Channel Junction Silicon FET
Video Camera 1st Stage Applications		

Features

- Large $|Y_{fs}|$.
- Small Ciss.
- Ultralow noise figure.
- High-frequency, low-frequency, low noise amp.

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 _D	50	mA
Allowable Power Dissipation	P _D	300	mW
Junction Temperature	T _J	125	°C
Storage Temperature	T _{stg}	-55 to +125	°C

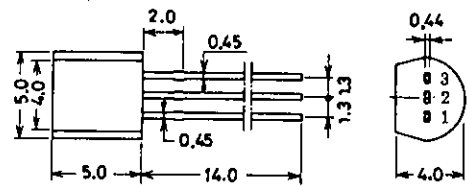
Electrical Characteristics at Ta = 25°C

			min	typ	max	unit
G-D Breakdown Voltage	V _{(BR)GDS}	I _G = -10μA, V _{DS} = 0	-15			V
Gate Cutoff Current	I _{GSS}	V _{GS} = -10V, V _{DS} = 0			-1.0	nA
Cutoff Voltage	V _{GS(off)}	V _{DS} = 5V, I _D = 100μA		-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 = 1kΩ, I _D = 1mA, f = 1kHz		1.5		dB

※ : The 2SK445 is classified by V_{DS} = 5V as follows : (unit : mA)

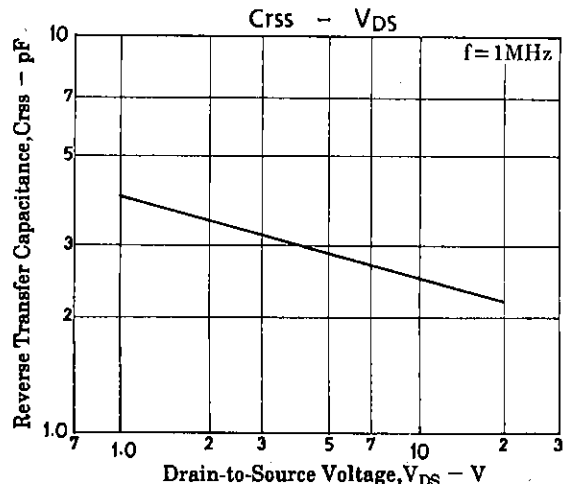
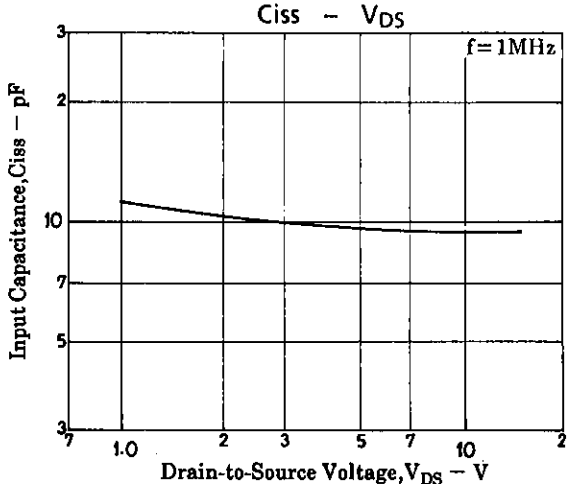
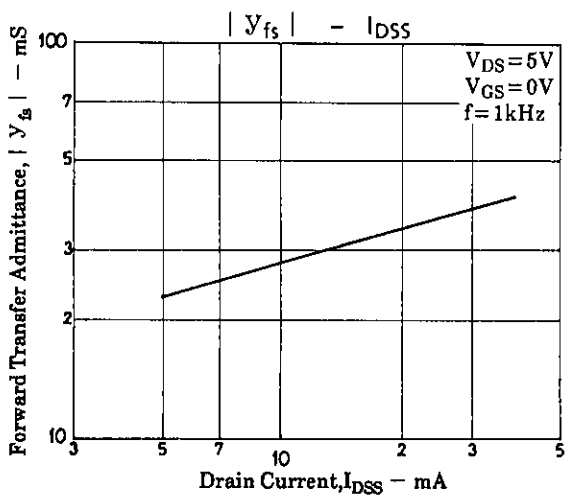
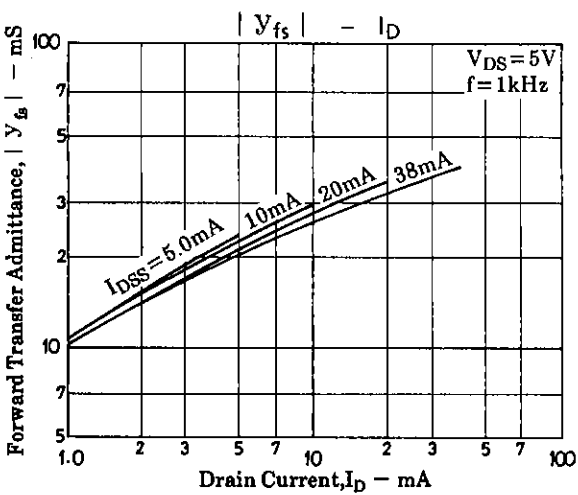
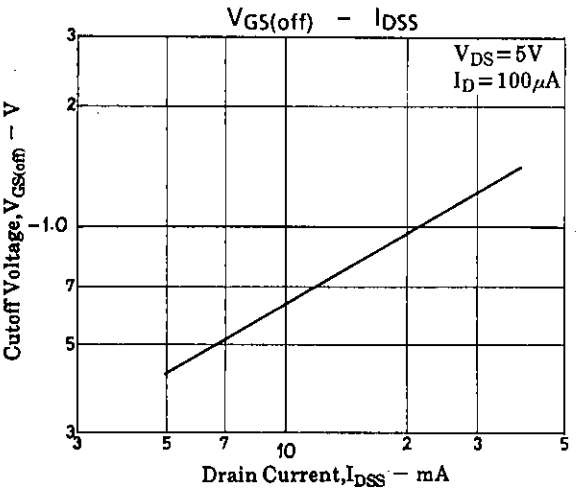
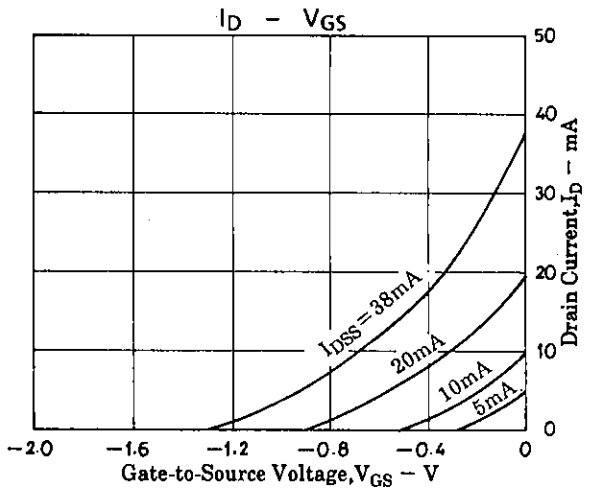
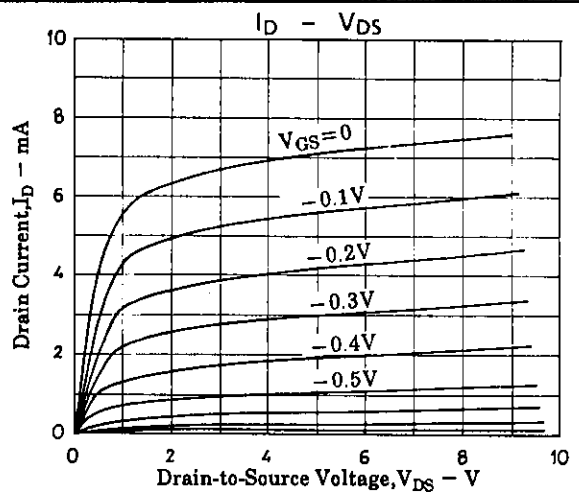
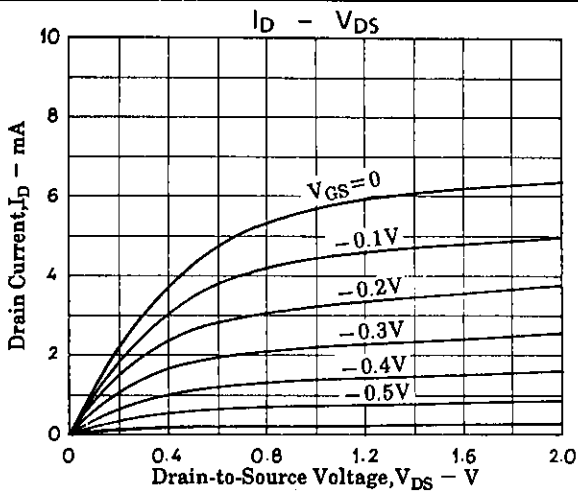
5.0	F	12.0	10.0	G	24.0	16.0	H	38.0
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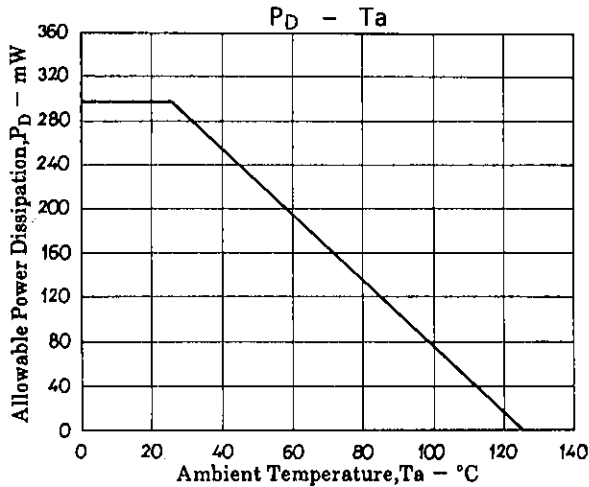
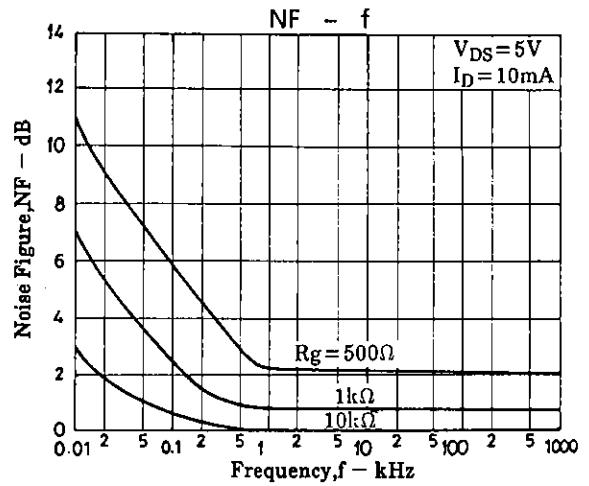
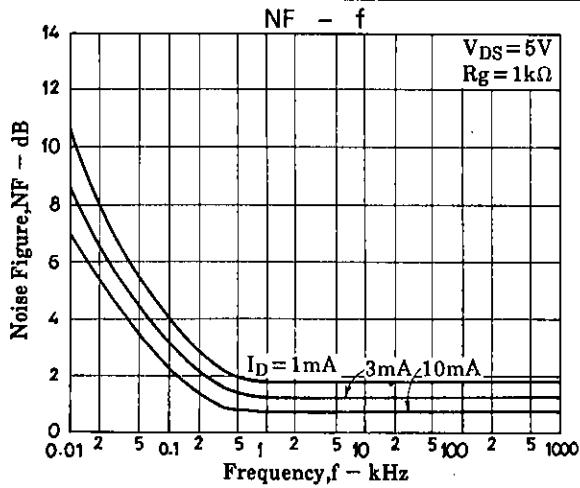
Package Dimensions 2005B
(unit : mm)



JEDEC : TO-92 1 : Drain
 EIAJ : SC-43 2 : Source
 SANYO : NP 3 : Gate

2SK445





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